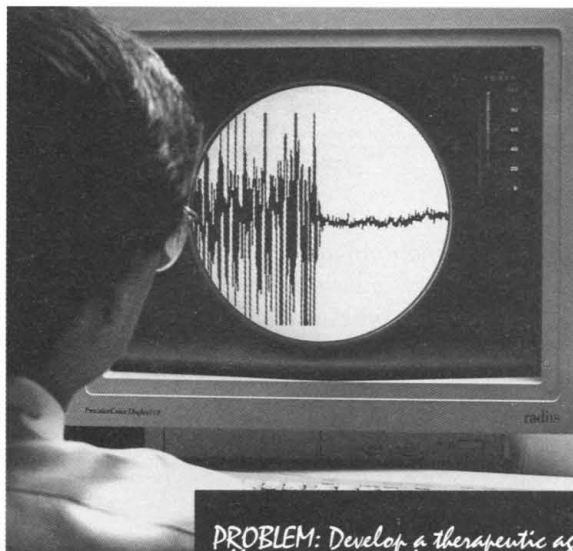


PROBLEM: Develop contact lens care products to keep pace with trends in disposable and frequent replacement lenses.
SOLUTION: Disinfection solutions for use directly in the eye.



PROBLEM: Develop a therapeutic agent that will allow more normal movement in patients with neuromuscular disorders.
SOLUTION: Botox® purified neurotoxin complex.



PROBLEM: Develop methods to treat glaucoma patients without excessive intraocular pressure.
SOLUTION: Basic research to learn how to normalize retinal blood flow.

Be Part of the Solution.

Join the team at Allergan and become a part of some of today's most innovative health care solutions. We are widely recognized as a global leader in the development, manufacture and marketing of pharmaceutical drugs for eye and skin care as well as neuromuscular disorders.

We have allocated extensive resources to R&D efforts in five key areas: glaucoma, cataracts, neuromuscular disorders, contact lens care and receptor-selective retinoids. Our goal, as always, is to enhance the quality of life for people around the world while expanding our market presence.

As we continue to create quality products in a changing health care environment, our need for talented professionals grows. If you are interested in learning more on how Allergan is developing solutions for the health care needs of today and tomorrow, and how you may be a part of it, please contact: **Allergan, Corporate Human Resources, Joyce Smith, 2525 Dupont Drive, T2-1B, Irvine, CA 92715.** Equal Opportunity Employer.

 **ALLERGAN**

Wadsworth Center

New York State Department of Health

At the **Wadsworth Center**, investigators engage in research at the intersection of science and public health. Collaborating across corridors and continents as well as disciplines, they examine all aspects of **genetic and infectious disease, molecular medicine and environmentally induced disorders**. Supporting these multidisciplinary activities are extensive core facilities: DNA and peptide sequencing and synthesis, tissue banks, transgenics and an NIH-supported microscopy resource among them. With a staff of 800 that includes 170 doctoral level scientists, the Wadsworth Center is the most comprehensive public health laboratory in the country and a stimulating scientific community. Its program of basic and applied research, coupled with graduate education in biomedical and environmental sciences and a mission in public health, endows the center with vigor and vision.

A HISTORY OF EXCELLENCE

Founding director Dr. Augustus B. Wadsworth's seminal volume, *Standard Methods*, used by public health laboratories throughout the world, set the institutional tone for excellence. This expectation, especially in the pioneering research he fostered, has yielded notable achievements over time: the isolation of cardiolipin, leading to an improved serological test for syphilis; the discovery of Nystatin, the first safe and effective antifungal; the discovery of Cocksackie virus; the development of methods to analyze and measure trace chemicals in the environment; the development of recombinant vaccinia virus as a vaccine vector; the discovery of introns in prokaryotes; and the development of SPIDER software, a modular image processing system.

A FOCUS ON THE FUTURE

Today, Wadsworth scientists are carrying this tradition of excellence into the future. The scope of their research interests spans genetic studies in organisms from prokaryotes to mammals; immunology; cell biology; oncology; structural biology using x-ray crystallography, NMR and mass spectrometry; environmental chemistry and toxicology; the molecular biology and pathogenesis of viral, bacterial, fungal and parasitic organisms; the origins of acid rain; and the neurotoxicity of PCBs.

Future emphasis will focus on human molecular genetics, including a defining role in public health issues such as the genetic risk and epidemiology of common inherited disorders; molecular epidemiology and immunological approaches to evaluating health effects of environmental toxicants; computational biology; molecular and cellular hematology; environmental microbiology; biomarkers for assessing environmental exposure; and molecular pathogenesis, particularly of HIV, tuberculosis and drug-resistant organisms.

Inquiries are welcome from junior, mid-career and senior scientists. Qualified staff are eligible for faculty appointment in the Departments of Biomedical Science and Environmental Health and Toxicology, University at Albany. Candidates should send a CV with references to:

Dr. Lawrence S. Sturman, Director
Wadsworth Center
New York State Department of Health
Albany, NY 12201-0509

*The Wadsworth Center is an
affirmative action/equal opportunity employer.
Women and minorities are encouraged to apply.*

SCIENCE
in the pursuit of health

Fellowships for Biological and Biomedical Sciences

The Howard Hughes Medical Institute announces the 1996 competitions for fellowship programs that support training in fundamental biological and biomedical research. Awards, based on international competitions, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at academic or nonprofit research institutions.

Predoctoral Fellowships in Biological Sciences

Up to five years of support for full-time graduate study toward a Ph.D. degree in bio-statistics, cell biology and regulation, epidemiology, genetics, immunology, neuro-science, or structural biology. Applicants must not have completed the first year of postbaccalaureate graduate study in biology. *Application deadline: early November.*

Postdoctoral Research Fellowships for Physicians

Three years of support for training in fundamental research subsequent to at least two years of postgraduate clinical training and no more than two years of postdoctoral research training. *Application deadline: mid-December.*

Research Training Fellowships for Medical Students

An opportunity for medical students in the United States to explore a burgeoning interest in fundamental research. Support is awarded for one year of full-time funda-mental research in a laboratory at the student's medical school or another institution (except NIH in Bethesda, Maryland). *Application deadline: early December.*

Research Scholars at the National Institutes of Health

Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research in the intramural program at NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. *Application deadline: early January.*

1996 Program Announcements and Applications

For Predoctoral Fellowships:

Hughes Fellowship Program
The Fellowship Office
National Research Council
2101 Constitution Avenue
Washington, DC 20418
United States of America
Telephone: (202) 334-2872
Fax: (202) 334-3419
E-mail: infofell@nas.edu

For Other Programs:

Howard Hughes Medical Institute
Office of Grants and Special Programs
Department AL96
4000 Jones Bridge Road
Chevy Chase MD 20815-6789
United States of America
Telephone: (301) 215-8889
Fax: (301) 215-8888
E-mail: fellows@hq.hhmi.org

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.

Annual Meeting of the American Society of Zoologists

With the American Microscopical Society and the Crustacean Society



December 26-30, 1995
Sheraton Washington Hotel,
Washington, D.C.

Avian Biology sessions will cover a variety of topics including immunology, toxicology, behavior, endocrinology, ecology, functional morphology, developmental biology, growth physiology, growth factors, and ontogeny of sensory systems.

Society-Wide Symposium

Organized by: Mary A. Ottinger,
University of Maryland

- **Bats, Insects, and Ultrasound** will explore the tactics and counter tactics of predator and prey -- how bats detect and recognize their insectan prey and how insects avoid being eaten. **Organized by: William E. Conner**, Wake Forest University
- **Molecules to Mudflats** examines the ways animals adapt to and cope with the ecological, physiological and biochemical aspects of life in estuaries, including implications for managing and restoring these systems. **Organized by: Peter L. deFur**, Environmental Defense Fund
- **Aquatic Locomotion** will present new approaches and data on aquatic locomotion in both invertebrates and vertebrates. Data on appendicular and axial propulsion will be presented in light of new theoretical advances. **Organized by: George Lauder**, University of California, Irvine, **John Long**, Vassar College
- **Phylogenetic Systematics, Biogeography, and Marine Biodiversity.** The goal of this session is to identify and communicate general patterns of animal phylogeny and biogeography in the marine realm. **Organized by: Lynne R. Parenti**, Smithsonian Institution
- **Behavioral Toxicology: Mechanisms and Outcomes** will examine links between toxicant-induced physiological changes and behavioral alterations, facilitating possible themes of behavioral changes due to environmental stress. **Organized by: Daniel N. Weber**, University of Wisconsin, Milwaukee

- **New Horizons in Barnacle Evolution** will cover topics in molecular biology, ecology, physiology, ultrastructural morphology, and biogeography, breaking new ground in understanding. **Organized by: Jens Hoeg**, University of Copenhagen; **and Frederick R. Schram**, University of Amsterdam

- **Amphibian Metamorphosis: An Integrative Approach** gathers researchers from diverse fields to address mechanisms regulating metamorphosis, examining how internal responses are regulated by environmental change and how these mechanisms have evolved. **Organized by: Tyrone Hayes**, University of California, Berkeley

Don't Miss
These Other
Exciting
Symposia

• Control of Arterial Blood Gases: Ventilatory and Cardiovascular Perspectives

integrates new studies in cellular and neuronal aspects with studies on ventilatory and cardiovascular control in intact and non-anaesthetized animals. **Organized by: Carl Reiber**, University of Nevada, Las Vegas

- **Forces in Developmental Biology Research: Then and Now** will focus on the evolution of current concepts in developmental biology research by juxtaposing historical roots of research with current concepts and models of research conducted on both invertebrate and vertebrate embryos. **Organized by: Louise Luckenbill**, Ohio University

For More Information Contact:

American Society of Zoologists • 401 N. Michigan Avenue • Chicago, IL 60611-4267
Phone: 312/527-6697 • Fax: 312/527-6640 • Email: asz@sba.com

SHAMAN

Pharmaceuticals is a growing company engaged in the discovery and development of novel plant-derived medicines for diabetes and virology. In June 1995, we signed an in-licensing agreement with Bayer AG of Germany for the development of the antifungal compound known as nikkomycin Z which we intend to study as a treatment for endemic mycoses. To support this program, we are seeking accomplished scientists for the following professional roles at our San Francisco Bay Area offices.

SENIOR SCIENTIST, ANALYTICAL

You will be charged with developing and validating new analytical methodologies in support of new products and raw materials and for characterizing impurities and degradation patterns of drug substances. A Ph.D. in chemistry and at least 5 years' pharmaceutical analytical laboratory experience are required.

SENIOR SCIENTIST/MANAGER, QUALITY CONTROL

The candidate selected for this position will maintain core laboratory services to support manufacturing, process development and toxicology research, in addition to working with analytical, manufacturing and other groups to set up bioassays and assess appropriate methodologies for assuring product quality. Requirements: Ph.D. in chemistry or biochemistry (or related), 5+ years' pharmaceutical experience, knowledge of bioassays and other biological methodologies, and familiarity with cGMP and GLP requirements.

POSTDOCTORAL INVESTIGATOR (FELLOW), NATURAL PRODUCTS

This position offers the opportunity to participate in a biosynthesis program. Your responsibilities will include fermentation set-up, culturing microorganisms, establishing fermentation conditions, isolation of metabolites and labeling experiments followed by purification. Ph.D. with 0-2 years' experience in natural products research required, along with these hands-on skills: fermentation techniques, biological assays, chromatographic and spectroscopy procedures. Natural products, labeling studies and strong HPLC and analytical methods also required.

POSTDOCTORAL INVESTIGATOR, ANTIFUNGAL DRUGS

This position will be involved in evaluating the efficacy of antifungal drugs in animal models of mycoses, establishing or implementing existing models and evaluating combinations of antifungal compounds to improve efficacy over single-drug regimens. To qualify, you must have a Ph.D. completed within the last 3 years (or soon to be completed), in addition to experience in animal models of infectious diseases. Experience in mycotic models and knowledge of pharmacokinetics and statistics are desirable.

MEDICINAL CHEMIST

The qualified candidate will have an MS degree in synthetic organic chemistry with at least 2-4 years of experience in the design and synthesis of bioactive molecules. Responsibilities include small- and large-scale synthesis, purification, and characterization of compounds. HPLC experience and computer skills are required; pharmaceutical industry experience is a plus.

FORMULATION SCIENTIST

This scientist will carry out preformulation characterization and formulation development of solid dosage form of new drug substances, overseeing the development and scale-up of clinical supplies by contract labs. You will also develop analytical methods and techniques to monitor drug and dosage form stability and evaluate *in vitro* drug release. A Ph.D. or equivalent in pharmaceuticals, industrial pharmacy, or physical pharmacy, and 3-5 years of industrial experience in the development of tablets, capsules, and semi-solid dosage forms are required, along with the ability to work independently and supervise associates.

BIOANALYTICAL SCIENTIST

This position in the PK/Metabolism group will work to determine the ADME of lead compounds. This will primarily involve developing and validating methods to isolate and quantitate drugs and related metabolites in biological fluids. Additional responsibilities include data interpretation and technical writing for regulatory filing. This senior position requires a Ph.D. in bioanalytical chemistry, metabolism, or related field and 3-5 years' relevant experience in the pharmaceutical industry, including strong hands-on experience in method development, HPLC/MS, GC/MS, RIA, ELISA and animal studies. You must also be able to work independently, supervise scientists, and oversee a lab unit.

RESEARCH ASSISTANT, PK/METABOLISM

The individual selected for this post will participate in studies to determine the pharmacokinetic parameters of lead compounds. Additional responsibilities include developing and validating methods to isolate and quantitate drugs and related metabolites in biological fluids. Position requires a BS/MS in chemistry, biochemistry or a related science, and 2-6 years' relevant experience, including method development, HPLC, animal handling and surgery, data interpretation and technical writing.

All positions demand creative, self-motivated individuals with strong oral and written communication skills, good interpersonal skills, and the desire to effectively participate in a multidisciplinary group environment. Qualified applicants are invited to respond, mentioning position of interest, to SHAMAN Pharmaceuticals, Inc., Attn: CARSCI, 213 E. Grand Ave., So. San Francisco, CA 94080-4812. We are committed to a diverse workforce/Equal Opportunity Employer.



Science

PERSONNEL PLACEMENT

LINE CLASSIFIED ADVERTISEMENTS

Deadlines: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* is published each Friday, except the last Friday of the year. Call for holiday deadlines. Ads must be submitted in writing.

How to Submit a Classified Ad:

Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training, Search Firms. *Science* cannot provide proofs of typeset line ads.

Mail, FAX or Email materials to:

Science Classified Advertising
1333 H Street, N.W., Room 814
Washington, DC 20005
Telephone: 202-326-6555 or 202-326-6534
FAX: 202-682-0816

Internet Email: science_classifieds@aaas.org
(please include telephone number in email correspondences)

Rates: Ads are \$43 per line; \$430 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces. A 3% cash discount is granted to all prepaid ads. Line advertisements are not commissionable.

Estimates: *Science* will provide a cost estimate for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment.

Ads from Outside the U.S.: A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Gordon Clark at +44 1223 302 067 (telephone) or +44 1223 576 208 (FAX).

Credit Cards: *Science* accepts American Express, MasterCard and VISA. Discount does not apply to credit cards.

Cancellations: Deadline for cancellation is 10 a.m., Tuesday, 10 days prior to issue date.

DISPLAY PERSONNEL ADVERTISEMENTS

For rates and info. for fractional display ads call:

Bethany Ritchey
Recruitment Display Advertising
Telephone: 202-326-6541
FAX: 202-682-0816

Janis Crowley
Recruitment Advertising Manager
Telephone: 212-496-7704
FAX: 202-682-0816

Debbie Cummings
European Recruitment Advertising
Telephone: +44 (0) 1223 302067
FAX: +44 (0) 1223 576208

Science Global Career Network: Unless otherwise instructed, every classified advertisement submitted for publication in *Science* is automatically posted on *Science's* on-line classified advertising service, Science Global Career Network, at no additional charge. Science Global Career Network address:

WWW: <http://www.aaas.org>
Gopher: gopher.aaas.org

Science reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN



OKLAHOMA
MEDICAL
RESEARCH
FOUNDATION

SENIOR FACULTY POSITION Free Radical Biology and Aging Research

The Oklahoma Medical Research Foundation seeks an accomplished senior scientist with a good track record of research productivity in biomedical problems where reactive oxygen species and/or nitric oxide intermediates are considered important. Instrumental approaches using advanced methods in spin trapping and mass spectroscopy are readily available. These techniques combined with molecular biological methods would be desirable in conducting research basic to biomedical problems such as aging, neurodegenerative diseases, ischemia/reperfusion injury, and septic shock. The individual will hold a position equivalent to **ASSOCIATE PROFESSOR** or **PROFESSOR**. Interested individuals should direct a letter of inquiry with curriculum vitae to: **Dr. Robert Floyd, Free Radical Biology and Aging, Oklahoma Medical Research Foundation, 825 N.E. 13th Street, Oklahoma City, OK 73104.** An Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF VIRGINIA Center for Cell Signaling

The Center is seeking two outstanding individuals with a record of research productivity and grant support to complement existing programs that focus on protein kinases and phosphatases. This research center within the School of Medicine seeks to discover mechanisms of how external signals alter cellular phenotypes. It is located in newly-renovated contiguous space. Recruitment of new faculty is supported in part by a grant from the Lucille P. Markey Charitable Trust. Senior academic appointments with tenure at the **ASSOCIATE** or **FULL PROFESSOR LEVEL** are arranged with departments in the School of Medicine. Of particular interest is research in the areas of JAK/STAT signaling, nuclear import and export of proteins, steroid receptor phosphorylation and function, and CDKs and their inhibitors in cell cycle control. The University of Virginia provides an interactive scientific community with a variety of core facilities, research centers and training programs, with particular strength in the area of signal transduction.

Applications will be handled in confidence on a continuing basis starting November 1, 1995 with appointments to start July 1996. Please send a curriculum vitae, including publications and grant support for the past five years, to: **Cell Signaling Search Committee, D. L. Brautigan, Chair, Box 577, University of Virginia, Charlottesville, VA 22908.** The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are especially encouraged.

BIOLOGICAL SCIENCES Three Tenure-Track Positions

1) Plant Biology: Teaching responsibilities include an undergraduate course in Principles of Biology serving non-majors and upper level undergraduate/graduate (M.S.) courses in plant taxonomy and in biostatistics/experimental design. A research interest in plant biology is required. 2) Anatomy and Physiology: The major teaching responsibility is an undergraduate course in Anatomy and Physiology serving biology, nursing, and health science students. The candidate will develop an upper level undergraduate/graduate (M.S.) course in Immunology or Neurobiology and possibly Human Biology. 3) Ecosystem Ecology: The major teaching responsibility is an undergraduate course in Ecology serving biology and environmental science majors and possibly an upper level undergraduate/graduate course in ecology. Close proximity to the Iroquois National Wildlife Refuge, Adirondack Mountains and Lake Ontario offers many research opportunities. Positions begin August 1996; Ph.D. and an ability to work with a culturally diverse student body are required. Candidates must participate in the graduate program and establish a fundable research program in their field of interest. Applicants must submit a letter of application, statements of teaching philosophy and research goals, curriculum vitae, transcripts, and have three letters of reference sent to: **Edward J. Kelly, Assistant to the President, SUNY Brockport, Brockport, NY 14420** by November 10, 1995. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

VERTEBRATE BIOLOGIST

Lafayette College
Available August 1996

Tenure-track **ASSISTANT PROFESSOR**. Candidates must have Ph.D. plus postdoctoral training and research in some aspect of vertebrate biology involving lower vertebrates or small mammals. We seek a broadly trained biologist committed to excellence in teaching and research within the context of a selective, undergraduate liberal arts institution. Teaching load 2/2 plus honors and independent study students. Courses include introductory biology, comparative vertebrate anatomy/functional morphology, others in specialty. Candidates should also be willing, at a later date, to teach in College's common course of study. Knowledge of multimedia computer applications is desirable. Competitive salary and benefits plus start-up funds. Applications, including curriculum vitae, graduate transcripts, a two-page description of teaching philosophy and research plans involving undergraduates, and names and telephone numbers of three professional references should be sent by December 15, 1995, to: **Dr. Shyamal K. Majumdar, Head, Department of Biology, Lafayette College, Easton, PA 18042.** Lafayette College is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSOR Genetic/Molecular Mechanisms of Disease

The Department of Comparative Medicine, Schools of Medicine and Dentistry, University of Alabama at Birmingham (UAB) invites applications for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We seek an independent investigator of genetic and molecular mechanisms in disease pathogenesis. Research should complement existing strengths in Alzheimer's disease, disorders of fatty acid/energy metabolism, interstitial cystitis, mycoplasma genetics/host defense, prostate cancer and transgenic/embryonic stem cell modeling. Investigators using innovative approaches to animal modeling and molecular genetics are encouraged to apply. Institution has strong tradition of interdisciplinary collaboration and excellent core facilities. Teaching responsibilities are modest and primarily at the graduate level. The Department of Comparative Medicine has an NIH-funded training program and cosponsors the Graduate Program in Molecular and Cellular Pathology with the Department of Pathology. Send curriculum vitae to: **Philip A. Wood, Chair of Search Committee, Department of Comparative Medicine, Schools of Medicine and Dentistry, UAB, Birmingham, AL 35294-0019.** FAX: 205-975-4418. UAB is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.

CELL ADHESION AND EXTRACELLULAR MATRIX BIOLOGY

The Department of Cell Biology in the Schools of Medicine and Dentistry, together with the Cell Adhesion and Matrix Research Center at the University of Alabama at Birmingham (UAB), invite applications for one full-time tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR LEVEL**. Competitive applicants will have a Ph.D. degree or equivalent, postdoctoral experience, and a record of innovative research productivity. The Department is committed to working with the newly formed Center in strengthening the research base in all aspects of cell adhesion and matrix biology. The successful candidate will be expected to develop a strong, extramurally funded research program, participate in student training, and contribute to departmental and Center responsibilities associated with graduate and professional student teaching. UAB is ranked in the top 20 institutions in NIH-funded research and offers a highly interactive environment with state-of-the-art facilities. The appointee will be located in the Center among many colleagues with related research interests. Salaries and start-up funds are competitive and will be commensurate with the appointee's qualifications. Applications, including the names of three referees, a current curriculum vitae, and a summary of past accomplishments and of future research plans, should be sent by November 17, 1995 to: **John R. Couchman, Ph.D., Director, Cell Adhesion and Matrix Research Center, The University of Alabama at Birmingham, Volker Hall 201C, Birmingham, AL 35294-0019.**

The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer.

Geron is the first biotechnology company to focus exclusively on the development of therapeutic agents for age-related diseases emerging from new advances in molecular and cellular gerontology. These diseases include atherosclerosis, senile dementia, age-related immune suppression and cancer. Please join us in one of the following:

Research Associate — Protein Purification

The Protein Chemistry group works to understand the mechanisms involved in regulating cellular senescence. The qualified candidate must have a BS or equivalent along with 2+ years' laboratory experience in protein chemistry. Experience in protein purification and characterization, enzymatic assays, standard molecular biology techniques and handling of radioisotopes is required. Code: 001

Postdoctoral Position — Molecular Biology, Human Telomerase

Geron has recently cloned the RNA component of the human enzyme. This postdoctoral position will investigate the biochemistry and molecular biology of human telomerase (a ribonuclear protein whose activity is associated with immortalization and tumorigenesis). You will participate in on-going efforts to define the interaction of the RNA and protein components, as well as identify and clone the remaining protein components of the enzyme. A thorough background in molecular techniques, including library screening and DNA sequencing is required. Experience with RNPs and RNA-protein interactions would be an asset. Code: 002

Our innovative research company offers a competitive salary, benefits and stock incentive program. Please send your resume, referencing position code of interest, to: Geron Corporation, Attn: Human Resources Dept., 200 Constitution Drive, Menlo Park, CA 94025. EOE.



ATTENTION AGING NEUROSCIENTISTS!

ISO: Nation's premier funding agency for aging research seeks senior neuroscientist to lead program in neuroscience and neuropsychology into the 21st century.

Public Health Service, National Institutes of Health, Bethesda, Maryland
A Senior Executive Service Vacancy

ASSOCIATE DIRECTOR

NEUROSCIENCE AND NEUROPSYCHOLOGY OF AGING PROGRAM
NATIONAL INSTITUTE ON AGING

THE POSITION: Associate Director for the Neuroscience and Neuropsychology of Aging (NNA) Program, National Institute on Aging (NIA), one of the world's largest and most comprehensive institutions in aging research. NIA conducts, fosters, and supports biomedical, social, and behavioral research and training pertaining to aging processes and common problems of older people. The Associate Director, NNA, serves as the principal advisor to the Director, NIA, on the neuroscience and neuropsychology of aging research programs; plans and directs extramural and collaborative research and training in the areas of neurobiology, neuroimmunology, neuropharmacology, neurourology, neuroendocrinology, and neuropsychology of aging, as well as Alzheimer's disease and related dementias relevant to aging.

THE CHALLENGE: Leadership in the overall scientific administration of an innovative research program in the field of neuroscience and neuropsychology of aging with a budget of \$150 million. The NNA Program supports a broad spectrum of research and training aimed at a better understanding of age-related normal and pathological changes in the structure and function of the nervous system and how such changes affect behavior. The basic mission of the Program is to expand knowledge on the aging nervous system to allow improvement in the quality of life of older individuals. This mission includes basic and clinical studies of the nervous system, clinical trials of interventions of therapeutic modalities, and epidemiologic research to identify risk factors and to establish prevalence and incidence estimates of pathologic conditions. The Program also supports research relevant to those geriatric problems arising from psychiatric and neurologic disorders associated with aging. In addition, the NIA legislative mandate provides specific authority to support research on Alzheimer's disease, establish the Alzheimer's Disease Patient Registry program, conduct clinical trials for the treatment of Alzheimer's disease, and promote research on the etiology, treatment, and diagnosis of Alzheimer's disease.

THE IDEAL CANDIDATE: Demonstrated scientific leadership and management of a basic or clinical neuroscience or neuropsychology research program of national and international standing M.D. or Ph.D. or comparable experience and training in one of the biological, behavioral, and/or biomedical sciences. Research experience in an area of neuroscience relevant to aging research is highly desirable.

SALARY RANGE: This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from an ES-1 to ES-6 level per annum (currently \$97,991 to \$122,040). Physicians may be eligible for an annual comparability allowance of up to \$20,000. A recruitment bonus of up to 25 percent of base pay may be available to a non-federal candidate, subject to individual approval; a relocation bonus of up to 25 percent of base pay may be available to a permanent Federal employee who must relocate, subject to individual approval.

HOW TO APPLY: Applicants are required to submit a bibliography and either a curriculum vitae, Application for Federal Employment (SF-171), Optional Application for Federal Employment (OF-612), resume, or any other written format which addresses the requirements indicated in this announcement. Application materials must be sent to the following address:

NATIONAL INSTITUTE ON AGING
Building 31, Room 2C02
31 Center Drive MSC 2292
Bethesda, Maryland 20892-2292
ATTN: Christine Hartz



Applications must be postmarked by December 8, 1995 and received by close of business December 15, 1995.

All application forms are subject to the provisions of the Privacy Act and become the property of the DHHS.

For further information contact Ms. Christine Hartz in the NIA Personnel Office at (301) 496-5347.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical or mental disability, age, sexual orientation, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

ASSISTANT PROFESSORS BIOLOGY DEPARTMENT WILLIAMS COLLEGE

The Biology Department invites applications for three anticipated tenure-track positions to begin July 1996 as follows:

Developmental biologist able to teach courses at the introductory level in cellular or organismal biology and at the upper level in developmental biology.

Plant molecular biologist able to teach courses at the introductory level in cellular and molecular biology and at the upper level in plant development and/or biochemistry.

Physiologist able to teach courses at the introductory level in organismal biology and at the upper level in animal physiology.

Candidates must have Ph.D. and postdoctoral experience and a strong commitment to undergraduate teaching and research. Senior appointment possible in exceptional circumstances. The standard teaching assignment in the department is one course and two laboratory sections per semester. Faculty members are expected to establish an independent research program that will involve undergraduates and that can attract external funding. Please send curriculum vitae, one-page statements of teaching and research interests, and three letters of recommendation by November 8, 1995 to: **Search Committee, Department of Biology, Williams College, Williamstown, MA 01267**. Please designate the position for which you are applying. *An Equal Opportunity/Affirmative Action Employer, Williams College especially welcomes applications from women and minority candidates.*

Molecular Biologist. The Department of Biology of Pomona College invites applications for a **TENURE-TRACK, ASSISTANT PROFESSOR** position beginning fall 1996. Applicants should have broad training in biology with extensive training, including postdoctoral experience, in microbiology or related fields. The appointee will participate in Pomona's Molecular Biology Program and will teach one upper division course each semester in his or her area of specialization, such as microbiology or virology. Preference will be given to candidates who can teach genetics. The successful candidate will also establish an active research program involving undergraduates for which start-up funds are available. *We particularly encourage applications from members of groups underrepresented in the sciences.* The appointee will demonstrate a commitment to teaching an ethnically diverse student body in a liberal arts setting. Send curriculum vitae, a statement of research interests, a statement of teaching interests citing specific courses to be taught, and three letters of recommendation to: **Molecular Biology Search, Department of Biology, Pomona College, Claremont, CA 91711**. Telephone: 909-607-2950. For full consideration, applications should be received by November 15, 1995 and will be accepted until the position is filled.

Pomona College is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN CELLULAR AND MOLECULAR PHYSIOLOGY

The Department of Cellular and Molecular Physiology of The Pennsylvania State University College of Medicine invites applications for a full-time, tenure-track faculty position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants should have substantial research experience using transgenic mice and should be interested in developing a research program using techniques for gene expression and gene deletion to examine fundamental questions in cellular physiology. Significant research accomplishment and ability to obtain independent funding are essential. Excellent opportunities exist for research collaboration, teaching in a medical school curriculum, and participation in one or more graduate programs.

Applications will be accepted until December 1, 1995 or until a suitable candidate has been selected. Send a curriculum vitae, a brief description of research interests, and the names of three references to: **Dr. Leonard S. Jefferson, Chairman, Department of Cellular and Molecular Physiology, College of Medicine, The Pennsylvania State University, P.O. Box 850, Hershey, PA 17033**. *We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.*

POSITIONS OPEN



The George Washington University (GWU) seeks to appoint a Luce **PROFESSOR** of Human Origins. Applicants should have 1) Ph.D. in anthropology, biological anthropology, anatomy or equivalent preparation focusing on human origins; 2) tenure or equivalent status; 3) distinguished record of research and publication; 4) a strong commitment to interdisciplinary research and student preparation in fields such as evolutionary biology, geology, evolutionary ecology, paleobiology, and paleontology. The Luce Professor will work actively with the Human Origins Program at the National Museum of Natural History, Smithsonian Institution. Salary and benefits very attractive, consistent with University Professor status. Send vitae and names of references to: **Luce Search Committee, Department of Anthropology, The George Washington University, Washington, DC 20052**. Review of applications will begin on January 1, 1996 and will continue until the position is filled. *GWU is an Equal Opportunity Employer; women and minorities are encouraged to apply.*

EUKARYOTIC/PROKARYOTIC CELL BIOLOGIST

The Department of Biology, University of South Florida (USF) anticipates two full-time (nine-month), **ASSISTANT PROFESSOR**, tenure-track positions. Candidates must have a Ph.D. and postdoctoral research experience in cell biology with an emphasis in cell signaling, developmental biology, ecology, evolutionary biochemistry, microbiology, or physiology. Successful candidates must train graduate students, establish externally-funded, molecularly-oriented research programs, and teach undergraduate cell biology. One position must also teach microbiology and/or virology. USF, the second-largest university in Florida, is a comprehensive research/teaching university, with interdepartmental collaboration fostered by the Institute for Biomolecular Science. The Department has 30 faculty. Applicants should forward: a letter of intent, curriculum vitae, reprints, statements of research and teaching experience, and arrange for three letters of recommendation to be received by December 15, 1995. Mail to: **Cell Biology Search, Department of Biology, University of South Florida, Tampa, FL 33620-5150**. *USF is an Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodation call Telephone: 813-974-3250 a minimum of five working days in advance.*

ASSISTANT PROFESSOR COMPARATIVE PHYSIOLOGY Department of Molecular and Integrative Physiology

University of Illinois at Urbana/Champaign

Applications are invited for a full-time tenure-track position at the **ASSISTANT PROFESSOR** level. Preferences will be given to individuals with interests in comparative or adaptational physiology and utilizing physiological, biochemical, cellular, and/or molecular approaches in their research. Successful candidates must hold a Ph.D. degree with postdoctoral experience, are expected to develop a vigorous, independently funded research program, and to contribute to undergraduate/graduate teaching in comparative/adaptational physiology. The appointee will join a strong department with broad interests and expertise in molecular, cellular, and systems/integrative physiology. The University of Illinois has a state-of-the-art Biotechnology Center with service facilities in molecular biology, protein analysis, cell culture, and transgenic animals. Competitive salary and start-up funds are available. The starting date for this position is fall 1996. To ensure full consideration, applications should be received by December 15, 1995. Applicants should submit a two-page statement describing research interests and plans, curriculum vitae, list of publications, and the names, addresses, and telephone numbers of at least three references to: **Dr. Arthur DeVries, Search Chairperson, Department of Molecular and Integrative Physiology, University of Illinois, 524 Burrill Hall, 407 South Goodwin Avenue, Urbana, IL 61801**. Telephone: 217-333-1735. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

POSITIONS OPEN

FACULTY POSITION ANIMAL DEVELOPMENT

The Department of Biological Sciences, University of Maryland Baltimore County (UMBC) is seeking an outstanding new colleague who is studying fundamental problems in an area of animal developmental biology for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants must have a doctoral degree and postdoctoral experience. The successful candidate will be expected to develop an externally funded independent research program and to contribute to the department's undergraduate and graduate teaching in the area of animal development. The Department offers Ph.D. degrees in Biological Sciences, Molecular and Cellular Biology, and Marine-Estuarine-Environmental Sciences. Salary and start-up funds are competitive. The Department has modern research facilities, with substantial common equipment including a vivarium, confocal microscope/EM facility, and flow cytometer. Applicants should submit a curriculum vitae, summary of current and future research interests, and the names, addresses and telephone numbers of three references. Applications should be submitted by December 1, 1995 to: **The Developmental Biology Search Committee, Department of Biological Sciences, UMBC, Baltimore, MD 21228**. UMBC is a suburban public research university within the University of Maryland System, specializing in science and technology, with a current enrollment of 9,000 undergraduates and 1,600 graduate students (see <http://www.umbc.edu>). *UMBC is an Affirmative Action/Equal Opportunity Employer.*

ENVIRONMENTAL SCIENTIST DIRECTOR

Claremont McKenna College, a member of the Claremont cluster of colleges, seeks to hire a person at the advanced **ASSOCIATE** or **FULL PROFESSOR** level to serve as Director of the Roberts Environmental Center, an institute for research and undergraduate education in interdisciplinary approaches to environmental problems. The director will be expected to establish an active research program, administer the institute and its associated major program of undergraduate study, advise undergraduate students in research and clinic projects, and teach four undergraduate courses related to environmental science, up to two of which requires supervising undergraduate research projects. Candidates must have a record of outstanding achievement in research on environmental problems and experience in teaching and administration. Candidates should have conducted applied environmental scientific research. Salary commensurate with experience. Claremont McKenna College is a small, selective liberal arts college with a curricular emphasis on economics and policy studies. Please send a résumé and arrange to have at least three letters of recommendation forwarded to: **Anthony Fucaloro, Dean of the Faculty, Claremont McKenna College, 500 East Ninth Street, Claremont, CA 91711-6400**. Review of applications will begin November 1, 1995 and will continue until the position is filled. *Claremont McKenna College is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.*

Stanford University, Department of Applied Physics, invites applications for a faculty position in Experimental Biophysics. The appointment is expected to be at the **SENIOR FACULTY** (tenured) level; however, for an exceptional candidate a **JUNIOR FACULTY** (tenure-track) appointment would be considered. Applicants should have experience in working on recent developments in the frontier between physics and biology and should have an interest in training graduate students coming from a physics background and in working within the department of Applied Physics. The successful candidate will be encouraged to form collaborations with faculty working in the life sciences for which Stanford, with a Medical School on campus, offers many opportunities. All applicants should send a résumé and two-page statement of current and future research and teaching interests. In addition, senior applicants should provide the names and addresses of at least five referees; junior applicants should have three reference letters mailed directly to: **Prof. S. Doniach, Chair, Biophysics Faculty Search Committee, Department of Applied Physics, Stanford University, Stanford, CA 94305-4090**. Résumés received by December 1, 1995 will be given full consideration. *Stanford is an Equal Employment Opportunity/Affirmative Action Employer.*

SIGNAL TRANSDUCTION POSITIONS

DNAX Research Institute, located near Stanford University, is recruiting for two Staff Scientist positions in the Department of Cellular Signaling. Candidates should hold either a Ph.D. and/or M.D. degree, have completed post-doctoral training and, preferably, a period as an independent investigator.

The Institute conducts research in a variety of areas of molecular and cellular biology with an emphasis on immunology, hemopoiesis and oncology. We invite applicants whose research interests could take advantage of these DNAX-established strengths. We are particularly interested in individuals with expertise in the following areas: Protein Phosphatases, Apoptosis, Cytokine-regulated signaling, or Calcium-dependent signaling. Applicants with closely related interests may apply.

The Department of Cellular Signaling presently comprises four research groups with a focus on signaling by membrane and cytoplasmic protein kinases, regulation of the cell cycle by cyclin-dependent kinases and regulation of cytokine gene expression. We are looking for creative individuals who can contribute innovative science to this productive research program and who would enjoy strong interactions with colleagues in other DNAX departments, namely, Immunology, Human Immunology and Molecular Biology.

Successful candidates will be expected to establish independent research programs in their area of interest and will have the opportunity to conduct basic research in the absence of teaching and grant writing responsibilities. DNAX scientists work in an academically styled environment complemented by a strong and international post-doctoral program.

Qualified applicants should send a *curriculum vitae*, the names of three references, and a one-page statement of research interests to: Human Resources Department, DNAX Research Institute, 901 California Avenue, Palo Alto, California 94304-1104. DNAX is an equal opportunity employer m/f/d/v.

DNAX Research Institute

NATIONAL INSTITUTES OF HEALTH

DIRECTOR, DIVISION OF RESEARCH GRANTS

The National Institutes of Health (NIH) invites applications for the position of Director, Division of Research Grants (DRG). This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from ES-1 to ES-6 level per annum (currently \$97,991 to \$122,040, including a locality allowance). Physicians may be eligible for a comparability allowance of up to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal candidate selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently in the career SES.

The incumbent serves as a principal advisor to the Director, NIH, and participates in discussions relative to the development of major policy decisions affecting the research grant and review program of the PHS; directs the search for qualified individuals to serve as members of initial review groups; participates in interagency discussions on the principal problems of Federal granting agencies, and meets with private research agencies to address shared issues relating to review; assures that effective administrative procedures are established so that program operations and obligations of government funds and other resources are rendered consistent with statutory and regulatory requirements and within limitations imposed; works closely with the Peer Review to assess broad policy issues related to the scientific review of research grants; provides leadership Oversight Groups in developing the scientific and administrative skills for Senior Research Administrators; and ensures smooth interface between program goals of Institutes and the Divisions review policies and procedures of the DRG.

The vacancy announcement with mandatory and desirable qualifications requirements can be obtained by calling (301) 496-1443. Applicants are required to submit a Bibliography, and either a Curriculum Vitae, Application for Federal Employment (SF-171), Optional Application for Federal Employment (OF-612), Resume, or any other written format which addresses the requirements indicated in this announcement, to the following address:

NATIONAL INSTITUTES OF HEALTH
Division of Senior Systems
6120 Executive Blvd, Ste 100
Rockville, Maryland 20852
Attention: Janice Balin



*Applications must be postmarked no later than
November 1, 1995*

- Applicants with access to E-Mail may transmit their materials to the following E-Mail address: fewalker@helix.NIH.gov
- Applicants with access to the Internet's World Wide Web may wish to browse the NIH Home Page, and may apply through the Web at the following URL: <http://www.nih.gov/news/>
- Application materials may be FAXed to (301) 402-6139 (Please limit FAXed materials to no more than 10 pages)

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, political affiliation, marital status, sexual orientation, handicapping condition, age or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer

POSITIONS OPEN

UNIVERSITY OF OKLAHOMA ASSISTANT PROFESSOR RESEARCH FELLOW Science and Public Policy Program

The Science and Public Policy (S&PP) Program at the University of Oklahoma invites applications for the position of **RESEARCH FELLOW** at the assistant professor level. This is a tenure-track position with a joint appointment in a department appropriate to the candidate in the College of Arts and Sciences, Business, or Engineering. S&PP is an interdisciplinary research unit in the Sarkeys Energy Center concerned with energy and environmental policy issues germane to public and corporate environmental management and sustainability. Program fellows are expected to compete for research grants and awards from public and private sources. Responsibilities include: preparing research proposals for extramural funding, participating in the Program's policy research projects, teaching two courses per year, and performing professional service. Candidates must have a Ph.D. at the time of appointment and a record of or demonstrated potential for funded research in energy or environmental policy, with an academic background in an appropriate field of business, economics/policy, or engineering. International experience is desirable. The position begins August 16, 1996; salary will be commensurate with qualifications. A letter of application; curriculum vitae; copies of representative publications (if available); names, addresses, and telephone numbers of three references; and copies of graduate transcripts should be sent to: **Professor Mark Meo, Science and Public Policy Program, University of Oklahoma, 100 East Boyd Street, Room S202, Norman, OK 73019**. Review of applications will begin January 20, 1996, and continue until the position is filled. *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION MICROBIOLOGY

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of microbiology, beginning September 1996, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Research interests in any area of microbiology will be considered, but applicants working in the areas of bacterial pathogenesis, bacterial genetic regulation, or host-pathogen interactions are particularly encouraged to apply. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 8, 1995. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

Dr. Graham Hatfull
Microbiology Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260
Telephone: 412-624-6975

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

ASSISTANT PROFESSORSHIPS (2)

1) Immunology (teach Immunology, specialty course, and have tissue culture skills), 2) Evolution (teach Evolution, Population Biology/Genetics, Molecular Tools in Ecology and Evolution). Both must have two years of postdoctoral experience, a strong commitment to undergraduate teaching, and develop and maintain an independent research program. Review of applications starts November 1, 1995; positions open until filled and subject to final authorization. Further information: **rbray@san_marcos.csu.ms.edu**. Send letter of application (indicating which position), curriculum vitae, brief description of teaching and research interests, and three letters of recommendation to: **Biology Search Committee, California State University, San Marcos, CA 92096**. *CSU/SM is an Affirmative Action/Equal Opportunity/Title IX Employer.*

POSITIONS OPEN



WAYNE STATE UNIVERSITY DEPARTMENT OF CHEMISTRY

Invites applications for **FACULTY POSITIONS** in the general area of organic chemistry including bioorganic and physical organic and in experimental areas of analytical and physical chemistry. The positions are tenure-track or tenured. Outstanding candidates regardless of level are encouraged to apply. Appointments are expected for fall of 1996. Appointees are expected to establish a strong, visible research program and maintain a commitment to excellence in undergraduate and graduate teaching. Postdoctoral experience is preferred. Applicants should send a complete résumé, a statement of research plans and arrange to have three letters of recommendation sent to: **Chairman, Faculty Search Committee, Department of Chemistry, Wayne State University, Detroit, MI 48202**. An initial deadline for receipt of applications is October 20, 1995. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

FACULTY POSITION MAMMALIAN MOLECULAR GENETICS

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of genetics, beginning September 1996, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Applications are invited from candidates with research interests in any area of mammalian biology. Individuals with a strong research emphasis on genetic models of developmental or disease processes are especially encouraged to apply. The successful candidate will join another faculty member in utilizing our transgenic core facility. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 8, 1995. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

Dr. Richard Chaillet
Genetics Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260
Telephone: 412-624-6987

The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

FACULTY POSITIONS CELL AND MOLECULAR BIOLOGY

Applications are invited for tenure-track positions, at the level of **ASSISTANT PROFESSOR**, in the Department of Cell and Molecular Biology at Northwestern University Medical School. Candidates must have a Ph.D. or equivalent degree, postdoctoral experience, and research experience in cell and molecular biology. The department is particularly interested in individuals with a strong record of productivity in the areas of cytoskeleton/cell motility, nuclear architecture and function, or biological structure using high resolution microscopic techniques. Applicants will be screened with respect to their ability to carry on vigorous, independent research and to participate in departmental teaching programs. Send a complete curriculum vitae and a brief description of research interests to: **Dr. Robert Goldman, Chair, Department of Cell and Molecular Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611**.

Northwestern University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

POSITIONS OPEN

BIOMEDICAL ENGINEERING FACULTY POSITION

The Department of Biomedical Engineering at the University of Alabama at Birmingham (UAB) has an opening for a **TENURE-TRACK FACULTY** member. Candidates are particularly invited in cross-disciplinary areas of neurosystems, biological neural networks, computational neurobiology, or other multidisciplinary areas that combine neurobiology and imaging. The person selected for this position will be expected to form active research collaborations with other units on the UAB campus. Candidates should have a Ph.D. degree and *must be U.S. citizens or have permanent residency in the U.S.* The search will be continued until the position is filled.

UAB is an autonomous campus within the University of Alabama system. UAB faculty currently are involved in over \$180 million of externally funded grants and contracts. A 4.1 Tesla clinical NMR facility, several other small-bore MR systems, and a team of research scientists and engineers working in various aspects of MR imaging and spectroscopy are housed only 200 meters from the Engineering Building. Brain imaging projects are expected to involve collaborations with members of the Neurobiology Research Center, as well as faculty members from the Departments of Physiological Optics, Neurology, Psychology, Psychiatry, and Radiology.

To apply send a letter of application, a current curriculum vitae, and three letters of reference to: **Dr. Ernest Stokely, Department of Biomedical Engineering, BEC 256, University of Alabama at Birmingham, Birmingham, AL 35294-4461**. Email: **stokely@alax.eng.uab.edu**. *The University of Alabama at Birmingham is an Equal Opportunity/Affirmative Action Employer, and encourages applications from qualified women and minorities.*

PLANT DEVELOPMENT

The Botany Department of the University of Toronto invites applications for a tenure-track position in Plant Development at the **ASSISTANT PROFESSOR** level, starting July 1, 1996. The successful candidate should have a Ph.D. and, preferably, postdoctoral experience. We are particularly interested in applicants using cellular, molecular, and genetic approaches to studying problems in plant developmental biology. Teaching responsibilities will include participation in undergraduate and graduate courses in plant development and in cellular and molecular biology. This position is integral to a new campus-wide Graduate Program in Developmental Biology. Applicants should submit a curriculum vitae and a statement of research and teaching interests and arrange for three letters of reference to be sent to: **Dr. Nancy G. Dengler, Chair, Plant Development Search Committee, Department of Botany, University of Toronto, 25 Willcocks Street, Toronto, Ontario, M5S 3B2 Canada** (**dengler@botany.utoronto.ca**) by November 30, 1995. This position is subject to budget approval. *In accordance with Canadian Immigration regulations, this advertisement is directed toward Canadian citizens and permanent residents of Canada. In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples, and persons with disabilities.*

ASSISTANT PROFESSOR PLANT ECOLOGY

The Department of Biological Sciences, Mississippi State University, invites applications for a tenure-track, nine-month faculty position to begin 16 August 1996. We are seeking a broadly trained individual, with preference given to individuals who use quantitative approaches to study community or ecosystem ecology. The successful applicant will be expected to direct M.S. and Ph.D. students and to develop a strong, extramurally funded research program. Teaching responsibilities include undergraduate and graduate courses in botany, plant ecology, and general ecology. Qualifications include a completed Ph.D. in a relevant field and an established record of research productivity; teaching and postdoctoral experience are desirable. Applications should include a curriculum vitae, a concise statement of research and teaching interests, selected reprints, and three letters of reference sent to the Search Committee Chair: **Dr. Michael J. Sullivan, Department of Biological Sciences, P.O. Drawer GY, Mississippi State University, Mississippi State, MS 39762**. Telephone: 601-325-7575; Email: **mjs2@ra.msstate.edu**. Screening of candidates will begin 1 December 1995 and will continue until the position is filled. *Mississippi State University is an Affirmative Action/Equal Opportunity Employer.*

Postdoctoral Research Associate

The Jet Propulsion Laboratory in a federally-funded research and development center operated for NASA by the California Institute of Technology located in Pasadena, California.

Postdoctoral Research positions are now available for studies related to the application of ocean surface wind velocity measured by the NASA Scatterometer in large scale meteorology, oceanography and climate variability. The position is for one year with possibility of renewal. The successful candidate will assist Dr. W. Timothy Liu.

Applicants must have Ph.D. in atmospheric or oceanic sciences with a strong background or training in physics and applied mathematics.

Please send a curriculum vitae with a list of publications, a statement of research interest, and a list of persons who could serve as a professional reference to: Staffing, Dept. T43, Dr. W. Timothy Liu, Jet Propulsion Laboratory, California Institute of Technology, 4800 Oak Grove Dr.,

M/S 300-323,
Pasadena, CA
91109. EOE.

JPL
Jet Propulsion Laboratory
California Institute of Technology

ENZYMOLOGIST

Agouron Pharmaceuticals, Inc., a recognized pioneer and leader in the field of structure-based drug design, has an immediate opening for an experienced Ph.D. enzymologist in its Biophysics department.

The successful candidate will be part of an exciting multidisciplinary anticancer and antiviral drug discovery team. Responsibilities will include the kinetic characterization of protein targets and protein-ligand interactions as well as the development of novel enzymatic assays. Applicants should have a solid background in enzyme kinetics and protein chemistry. Senior level scientists are encouraged to apply.

We offer competitive salaries and benefits. Please send a detailed resume to: Human Resources, Dept. JV, Agouron Pharmaceuticals, Inc., 10350 N. Torrey Pines Road, La Jolla, CA 92037. EOE.



Agouron
Pharmaceuticals, Inc.



JSPS FELLOWSHIPS FOR BIOMEDICAL AND BEHAVIORAL RESEARCH IN JAPAN

Through arrangements made with the Fogarty International Center of the National Institutes of Health (NIH), the Japan Society for the Promotion of Science (JSPS) is offering 30 fellowships for American researchers in the biomedical and behavioral sciences to pursue collaborative research in Japanese universities and other eligible institutions and laboratories. Funding is available for stays ranging from two weeks to twelve months. These fellowships are intended to enhance American-Japanese collaboration in biomedical and behavioral research by providing flexible opportunities for capable American scientists to work with colleagues in leading Japanese laboratories on substantive projects of mutual interest. Although intended primarily for postdoctoral level researchers, doctoral candidates and senior researchers may also apply. Fellows are expected to be recipients of NIH awards or to be substantially involved in NIH-supported research.

These fellowships are being offered as a pilot program at this time only. Because recipients must arrive in their host laboratories in Japan by March 31, 1996, interested persons should contact the Fogarty International Center immediately.

E-mail requests for a detailed program announcement and application instructions are welcome at: JSPS@NIH.GOV.

Persons who do not have e-mail or who would like more information on this program should contact:

Director, Division of International Relations
Attn: JSPS Fellowships
Fogarty International Center
National Institutes of Health
Building 31, Room B2C11
31 Center Drive, MSC 2220
Bethesda, Maryland 20892-2220
telephone: 301-496-4784
fax: 301-480-3414

POSITIONS OPEN

CALIFORNIA STATE UNIVERSITY, LONG BEACH Department of Biological Sciences

TWO TENURE-TRACK POSITIONS reopened—beginning fall 1996 at Assistant Professor:

Marine Microbiology—Primary teaching responsibilities in marine microbiology and bacterial physiology. Preference given to applicants with research expertise using molecular techniques for studying marine microbial processes.

Wetlands Plant Ecology—Primary teaching responsibility in plant ecology. Preference given to applicants with research expertise in wetlands and estuarine plant ecology and ability to teach undergraduate biostatistics and in plant biology courses.

Candidates must have a strong commitment to teaching at the undergraduate and M.S. levels and participate in introductory courses in an ethnically and culturally diverse campus community. Applicants are expected to show potential for developing and sustaining an independent, externally funded research program involving students. Research start-up funds are available. Ph.D. and a record of published research required. Postdoctoral experience preferred. Submit a letter of application, curriculum vitae, brief statement of research and teaching interests, and three letters of recommendation to: **Dr. Laura Kingsford, Acting Chair, Attn: Marine Microbiology Search or Wetlands Plant Ecology Search, Department of Biological Sciences, California State University, Long Beach, CA 90840-3702. Telephone: 310-985-4807; FAX: 310-985-8878, by November 3, 1995.** Open until filled. *California State University, Long Beach is an Equal Opportunity/Affirmative Action/Title IX Employer.*

FACULTY POSITION PHYSIOLOGY AND BIOPHYSICS UNIVERSITY OF WASHINGTON

A tenure-track position at the **ASSISTANT PROFESSOR** or junior associate professor level is available in the Department of Physiology and Biophysics at the University of Washington School of Medicine. The department intends to complement and strengthen existing programs in integrative physiology by recruiting an individual to use innovative approaches to study systems function. The successful candidate is expected to have a Ph.D. or M.D., to develop a vigorous independent research program, and to teach graduate and professional students. The position offers scholarly support from existing faculty, extensive scientific resources and an excellent academic environment. Send curriculum vitae, selected reprints, statement of research interest and three letters of reference to: **Dr. Peter B. Detwiler, Chair, Search Committee, Department of Physiology and Biophysics, Box 357290, G-424 HSB, University of Washington School of Medicine, Seattle, WA 98195.** Send applications by November 1, 1995. Our WWW address is: <http://webster.u.washington.edu/~pbiopage/>

The University of Washington is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY

Beginning September 1996, a nine-month tenure-track appointment at the **ASSISTANT PROFESSOR** level. Strong commitment to teaching is necessary due to a teaching load of 15 hours per quarter. Responsibilities include teaching general biology, ecology, and an advanced course in organismal biology; advising and undergraduate research in environmental science. Ph.D. required. Augusta College is a 5700 student, senior unit of the University System of Georgia. Application deadline 1 December 1995. Send curriculum vitae, a statement of teaching philosophy, and names, addresses, and telephone numbers of three references to: **Dr. Bruce Saul, Department of Biology, Augusta College, Augusta, GA 30904-2200.** *Augusta College is an Affirmative Action/Equal Opportunity Institution and specifically invites and encourages applications from women and minorities.*

The Department of Biochemistry, Duke University Medical Center invites applications for a faculty position at the level of **ASSISTANT PROFESSOR**. We are especially interested in biochemists with experience in structural biology. Send résumé, summary of research interest, and three letters of reference to: **Christian R. H. Raetz, Department of Biochemistry, Duke University Medical Center, Durham, NC 27710.** Consideration of applications will commence in November 1995. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



JUNIOR GROUP LEADER POSITION IN NEUROBIOLOGY

The Friedrich Miescher Institute offers a **TENURE-TRACK POSITION** to a biologist with a strong background in transgenic mouse technology to carry out independent research in neurosciences such as developmental neurobiology, neuron-glia interactions, or molecular aspects of brain plasticity. Her or his research should complement that of existing neurobiology-oriented groups (**M. Burger, P. Caroni, A. Matus, D. Monard**). The Friedrich Miescher Institute is a foundation devoted to basic cell and molecular biology research offering excellent facilities in a stimulating scientific environment. The Institute already has several groups using transgenic methods supported by an existing technical service.

Application and inquiries should be addressed to: **Dr. Werner Reber, Friedrich Miescher Institute, P.O. Box 2543, CH-4002 Basel, Switzerland by November 1, 1995.**

ASSISTANT PROFESSOR Biochemistry Florida State University

The Department of Chemistry at Florida State University is seeking applicants for the position of **ASSISTANT PROFESSOR**, a tenure-track faculty position with anticipated start date in August 1996. The successful applicant is expected to develop an independent and creative research program and to participate in teaching undergraduate and graduate students. Candidates with interests in any area of biochemistry will be considered, but priority will be given to those candidates with research interests that will complement and benefit from the substantial research resources currently available in the Department and affiliated research centers, including the Program in Structural Biology, the National High Magnetic Field Laboratory, the Materials Research and Technology Center, and the Supercomputer Computations Research Institute. The Department of Chemistry is committed to the success of its junior faculty. Applications including curriculum vitae, reprints, research plans, and four letters of reference should be sent prior to December 1, 1995 to: **Lec Makowski, Department of Chemistry, Florida State University, Tallahassee, FL 32306-3006.** *Applications from women and members of minority groups are strongly encouraged.*

VASCULAR BIOLOGIST

The Department of Physiology at the University of Texas Health Science Center at San Antonio is seeking applications for a full-time tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The successful applicant will be expected to play a key role in the initiation of a program in the cellular, molecular, or neural aspects of vascular function involving existing and new faculty. Candidates should have a proven record of excellence in independent research and be capable of interacting with existing research and teaching programs within the department. The Department consists of 18 full-time faculty covering many areas of physiology, with major interests in the physiology of cardiovascular control, aging, and cell function. Interested applicants should provide a detailed curriculum vitae and statement of research interests and have three letters of reference sent to: **Dr. John M. Johnson, Faculty Search Committee, Department of Physiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756.** *The University of Texas Health Science Center is an Equal Employment Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL BIOLOGIST

ASSISTANT PROFESSOR in developmental biology, employing modern molecular approaches. Tenure track beginning August 1996. Ph.D. required; postdoctoral experience preferred. Expected to establish ongoing research program involving undergraduate students and to teach animal and developmental biology. Send by December 1, 1995, letter including description of teaching and research interests, curriculum vitae, and a list of three references to: **Dr. Douglas Duff, Chair, Department of Biological Sciences, Indiana University South Bend, South Bend, IN 46634.** *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR BIOCHEMISTRY

The Department of Chemistry and Biochemistry at the University of Oklahoma invites applications for two tenure-track positions at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Candidates must have a Ph.D. degree, postdoctoral experience, the ability to develop a productive research program, and a commitment to teaching excellence. Candidates at the associate level must have an active, funded research program and an internationally recognized record of research accomplishments. Interests in all areas of biochemistry will be considered, but investigators working in the areas of nucleic acids, enzyme mechanisms, or membrane biochemistry are especially encouraged. Review of candidates will begin November 1, 1995. Applicants should submit a complete curriculum vitae, a two-page description of ongoing work and future research plans, and should request that three letters of reference be sent to: **Dr. Phillip E. Klebba, Search Committee Chairman, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019.** *The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are strongly encouraged to apply.*

EMORY UNIVERSITY Experimental Physical Chemistry Faculty Position

The Department of Chemistry invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level starting fall 1996. We are seeking an experimental physical chemist with interests in condensed phase processes. The individual selected for this position will be expected to establish outstanding research and teaching programs. Candidates must hold a Ph.D. and preference will be given to those with postdoctoral experience. Applicants should send a curriculum vitae, a proposed research program, and arrange to have three letters of recommendation sent to: **Chair, Faculty Recruiting Committee, Department of Chemistry, Emory University, Atlanta, GA 30322.** To ensure full consideration, applications should be received by December 1, 1995. *Emory University is an Equal Opportunity/Affirmative Action Employer.*

GUILFORD COLLEGE

Biology: Botanist. Full-time **TENURE-TRACK** position. Major interest must be in teaching undergraduates, both majors and non-majors. Primary teaching responsibilities to include: General Botany (majors and non-majors); Field Botany; additional upper level biology courses; and courses for non-majors such as Plants and Society, Economic Botany, or Environmental Science. Must be committed to working closely with students, to guide their research and internships, and to serve as an academic adviser. Guilford College is a private, selective coeducational liberal arts college of 1,200 students founded by the Religious Society of Friends (Quakers). Applicants should have Ph.D. Please send letter of application, curriculum vitae, and three references to: **Dr. Charles G. Smith, Biology Department, Guilford College, Greensboro, NC 27410 by December 15, 1995.** *Affirmative Action/Equal Opportunity Employer. Minorities are encouraged to apply.*

Plant Molecular Biologist. The Institute of Biological Chemistry at Washington State University invites applications for a tenure-track position at the **ASSOCIATE** or **FULL PROFESSOR** level beginning July 1, 1996. This is an 89% research and 11% teaching position on a 12-month salary. Applicants should have a nationally/internationally recognized, extramurally funded research program that uses molecular and biochemical or cellular approaches to an important problem in plant biology and agriculture. The Institute provides an excellent research environment with more than 100 scientists, expansive plant growth facilities, and access to the latest analytical instrumentation and techniques. Candidates should send a curriculum vitae, extramural funding record, a statement of research interests, a description of future research directions, and three letters of recommendation to: **Dr. Thomas W. Okita, Chair, Search Committee, Institute of Biological Chemistry, Washington State University, Pullman, WA 99164-6340. Telephone: 509-335-3391; FAX: 509-335-7643.** Applications will be accepted until December 31, 1995, or until a suitable candidate is identified. *Equal Opportunity/Affirmative Action Employer/ADA.*

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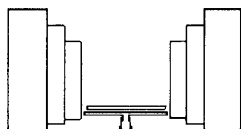
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Postdoctoral Position in Neural and Cardiac Development and Function THE SALK INSTITUTE

A position is available to study the molecular and cellular mechanisms of several signaling pathways in neural and cardiac development and function by various approaches. Areas of current interest include neuregulins and their receptors, neurotrophins and their receptors (*Cell* 69, 737-749; *Science* 263, 1447-1449; *Nature* 368, 147-150; *Cell* 77, 503-512), and corticotropin-releasing factor and their receptors. A doctoral-level degree is required and a strong background in molecular biology, neurobiology, and/or neuroendocrinology is preferred.

Applicants should send curriculum vitae, statement of research interests and experience, and names of three references to:

Dr. Kuo-Fen Lee
The Salk Institute
10010 N. Torrey Pines Road
San Diego, CA 92037

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NATIONAL INSTITUTE OF MENTAL HEALTH

CHIEF, BEHAVIORAL & INTEGRATIVE NEUROSCIENCE RESEARCH BRANCH

The National Institute of Mental Health, Division of Neuroscience and Behavioral Science, invites applications for the position of Chief of the Behavioral & Integrative Neuroscience Research Branch. The Branch Chief is responsible for providing overall leadership and general guidance in the areas of research, research training, and resource development in basic behavioral processes, focusing on cognition, psychopharmacology, learning and memory, computational, theoretical & related statistics.

Qualifications include a Ph.D. in psychology, biology, pharmacology, neurosciences, or other directly related field, and/or M.D. with relevant specialization, or equivalent training and relevant experience. Candidates will be evaluated based on demonstrated ability to manage major research programs; professional knowledge of the scientific principles, theories and practices applicable to the study of cognitive neuroscience, psychopharmacology, behavioral neuroscience & theoretical neuroscience; oral and written communication skills; and the ability to supervise, motivate and train subordinates. Minorities and women are encouraged to apply.

This is a GS-15 Civil Service position, with a salary range from \$71,664 to \$93,166 per annum. In addition, a recruitment bonus may be paid and relocation expenses may be paid. Physicians may be eligible for a Physician's Comparability Allowance (PCA) of up to \$20,000 a year. Benefits include a retirement plan, health and life insurance, Thrift Savings Plan, and sick and annual leave. The position may also be filled through the Commissioned Corps of the Public Health Service. U.S. citizenship is required.

If interested, please submit an Optional Application for Federal Employment (OF-612) or a resume or C.V. plus bibliography to: Ms. Margot Darby, NIMH, Personnel Management Branch, 5600 Fishers Lane, Room 7C-15, Rockville, MD 20857. Candidates are encouraged to address the evaluation criteria noted above in a supplemental statement. Applications will be accepted until postmarked deadline of December 8, 1995. For further information regarding this announcement, call Ms. Darby at (301) 443-9094.

NIMH is an Equal Opportunity Employer

POSITIONS OPEN

MICROBIOLOGIST University of Louisville

Applications are invited for a full-time tenure-track position as an **ASSISTANT PROFESSOR** in the Department of Biology, University of Louisville. Responsibilities will include teaching undergraduate microbiology courses and specialty courses within the graduate program in environmental biology. Applicants must have a Ph.D. and postdoctoral experience is preferred. The successful applicant will be expected to maintain a strong extramurally-supported research program and to supervise the research of M.S. and Ph.D. students. Preference will be given to individuals whose research employs molecular approaches to microbial studies in evolution, population genetics, ecology, biodiversity, or physiology. Consideration of applications will begin November 1, 1995, and will continue until a suitable candidate is identified. Send letter of intent along with a statement of research interests and teaching experience, curriculum vitae, three representative reprints, transcripts, and the names and telephone numbers of three references to: **Microbiologist Search Committee, Department of Biology, University of Louisville, Louisville, KY 40292.** *Women, minorities, and African-Americans are especially encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

MOLECULAR "EXCITABLE CELL" PHYSIOLOGIST

A tenure-track **ASSISTANT/ASSOCIATE PROFESSORSHIP** is available for a molecular physiologist whose research interests in nerve and muscle cells complement those of the neurobiology and cardiopulmonary faculty in the Department. The successful candidate must have a Ph.D. or equivalent degree, two years of postdoctoral research experience, and is expected to establish an extramurally-funded research program as well as participate in teaching general physiology courses. Start-up funds are available. The deadline for applications is November 15, 1995 with a starting date between May 1 and September 1, 1996. An application letter, description of current and long-term research interests, description of teaching experience and interests, curriculum vitae, and the names, addresses and telephone numbers of four individuals who were asked to provide reference letters should be sent to: **Dr. Douglas N. Ishii, Search Committee Chair, Department of Physiology, Colorado State University, Fort Collins, CO 80523.** *Colorado State University is an Equal Opportunity/Affirmative Action Employer. Women and ethnic minorities are strongly urged to apply.*

ASSISTANT/ASSOCIATE PROFESSOR Reproductive Biology, Johns Hopkins University

Applications are invited for a tenure-track position in the Reproductive Sciences. We seek investigators who use modern biochemical and molecular approaches to study basic reproductive processes including but not limited to male/female reproduction, development/differentiation, signal transduction, gene regulation, reproductive toxicology/aging. Faculty maintain independent, well-funded research programs, and advise and teach graduate and postgraduate students. Application deadline: December 1, 1995. Starting date: Negotiable. Send curriculum vitae, description of current and future research interests, and names of four references to: **Dr. Terry R. Brown, Division of Reproductive Biology, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205.**

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from women and minority groups.

ENDOWED CHAIR

The Department of Anesthesia, together with the Department of Cellular and Molecular Pharmacology at the University of California, San Francisco, seeks an outstanding investigator for an endowed chair, the first William K. Hamilton **PROFESSOR** of Anesthesia. The person will be responsible for research training of academic anesthesiologists and graduate students. Experience in basic cellular and molecular approaches relevant to anesthesia and pharmacology required. Send curriculum vitae and three reference letters by October 31, 1995 to: **Jeanine P. Wiener-Kronish, M.D., UCSF, Anesthesia and Cellular and Molecular Pharmacology, Box 0624, M-917, San Francisco, CA 94143-0648.** *University of California, San Francisco is an Equal Opportunity and Affirmative Action Employer.*

POSITIONS OPEN



EVOLUTIONARY BIOLOGIST

The Department of Biology, University of Miami, invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. We seek an evolutionary biologist with strong quantitative skills. Preference is for a botanist using physiological, genetical, or ecological approaches who will contribute to existing departmental strengths in evolution, behavior, ecology, and tropical biology. Ph.D. degree required. The successful candidate will be expected to develop an innovative, externally funded research program, and to participate in teaching at the undergraduate and graduate levels. Applicants should send curriculum vitae, representative reprints, and summary of research interests, and arrange to have three letters of reference sent to: **William A. Searcy, Chair, Search Committee, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124-0421, by 7 December 1995.**

The University of Miami is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR PHYSIOLOGICAL PSYCHOLOGY

The Department of Psychology at Brown University plans to hire an **ASSISTANT PROFESSOR** (three-year tenure-track renewable position) in the area of behavioral neuroscience, beginning July 1, 1996. We are looking for someone who studies the neural basis of behavior in mammals (including primates) using modern biological methods. Brown offers excellent research facilities, opportunities for interaction with other scientists in the Departments of Psychology, Neuroscience, Cognitive and Linguistic Sciences, and participation in Ph.D. training programs. Applications (due December 20, 1995) should include a curriculum vitae, at least three letters of reference, a set of reprints, and a detailed statement of research plans and teaching interests. Send to: **Behavioral Neuroscience Search Committee, Walter S. Hunter Laboratory of Psychology, Brown University, P.O. Box 1853, Providence, RI 02912.** *Brown University is an Equal Opportunity/Affirmative Action Employer. Applications from minority persons and women are strongly encouraged.*

CALIFORNIA INSTITUTE OF TECHNOLOGY

The Biology Division of the California Institute of Technology is accepting applications for a tenure-track, **ASSISTANT PROFESSOR** position in the area of immunology. Exceptionally well-qualified applicants may also be considered at the **ASSOCIATE** or **FULL PROFESSOR** level. Initial faculty appointments are normally for four years. The successful applicant is expected to participate in immunology teaching as well as to generate a creative and productive research program that will interface actively with the diverse scientific interests represented in the Biology Division.

Applicants must have a Ph.D. and should submit a curriculum vitae, list of publications, and a brief statement of research interests and plans. In addition, the candidate should arrange to have three letters of reference sent to the search committee to coincide with receipt of the application. All materials should be sent to: **Professor P. H. Patterson, Division of Biology, Caltech, Pasadena, CA 91125.** *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.*

ASSOCIATE DEAN RESEARCH

Northwestern University Medical School invites applications or nominations for the position of **ASSOCIATE DEAN** for Research and Graduate Studies. Candidates should have a doctoral degree, a record of excellence in biomedical research, and administrative experience.

The Associate Dean reports to the Vice Dean and is responsible for providing leadership in research program development, research services and infrastructure, graduate education, technology transfer and academic-industrial relations, and research integrity. Candidates should be qualified for a senior faculty appointment.

Submit curriculum vitae and three referee names in confidence by December 1, 1995 to: **Donald Nutter, M.D., Vice Dean, at Ward 4-153, 303 East Chicago Avenue, Chicago, IL 60611.** *Northwestern University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION CELL CYCLE REGULATION

The Department of Molecular Genetics, Biochemistry, and Microbiology invites applications or nominations for an **ASSOCIATE/FULL PROFESSOR** in cell cycle regulation. The Department includes 28 full-time faculty having strong research programs in gene and chromosome structure; regulation of gene expression, development and differentiation; human and mouse genetics; membrane structure, function and transport; intracellular trafficking; molecular and cellular immunology; pathogenic mechanisms; and structural biology. We are also the lead department in the NHLBI-sponsored Program of Excellence in Molecular Biology of the Heart and Lung. The department supports an active graduate program and maintains core facilities including those for the production of transgenic and knockout mice and DNA synthesis and sequencing. All these factors contribute to a collegial atmosphere which amplifies the excellence of all our research programs. Interested applicants should submit curriculum vitae, brief description of research program, and the names of three qualified references to: **Jerry B. Lingrel, Ph.D., Professor and Chair, Department of Molecular Genetics, Biochemistry, and Microbiology, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0524.**

The University of Cincinnati is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE/FULL PROFESSOR MOLECULAR BIOLOGY/TOXICOLOGY

The Division of Toxicology, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences (UAMS) is recruiting a full-time tenure-track faculty member to join the growing division at the **ASSISTANT, ASSOCIATE** or **FULL PROFESSOR** level. Requirements include: a Ph.D. or equivalent degree, postdoctoral training, and a productive record of quality research. Applicants should be utilizing molecular approaches to solve basic problems in any area of toxicology or pathophysiology. Individuals are expected to develop an independent research program with extramural funding. Applicants applying at the Associate or Full Professor level should have extramural funding. Excellent opportunities are available for collaborative research with other UAMS faculty and adjunct faculty at the National Center for Toxicological Research located nearby. A competitive start-up package and research space in a newly constructed research building are available. Send curriculum vitae, a brief research prospectus, and the names of three references to: **Rick G. Schnellmann, Ph.D., Division of Toxicology, Slot 638, University of Arkansas for Medical Sciences, Little Rock, AR 72205. Telephone: 501-686-8883; FAX: 501-686-8970.** Applications received before December 1, 1995 are assured of consideration. *UAMS is an Equal Opportunity/Affirmative Action Employer.*

WORCESTER POLYTECHNIC INSTITUTE BIOCHEMISTRY—FALL 1996

The Department of Chemistry solicits applications for a tenure-track appointment in biochemistry at the **ASSISTANT PROFESSOR** level. Applications are invited from candidates in all areas of biochemistry. Applicants should have a Ph.D. degree and will be expected to develop strong research and teaching programs at the undergraduate and graduate levels. To apply, submit complete résumé, including research plans and teaching interests, and three letters of recommendation by November 1, 1995 to: **Dr. James P. Dittami, Department of Chemistry, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609.** *Worcester Polytechnic Institute (WPI) offers a smoke-free environment. To enrich education through diversity, WPI is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF MICHIGAN COMPREHENSIVE CANCER CENTER MICHIGAN PROSTATE INSTITUTE

Faculty positions at the **ASSISTANT PROFESSOR** level (tenure-track) are available as part of a multidisciplinary program in prostate research. Candidates should have a Ph.D. and/or M.D. and be interested in joining a group of scientific and clinical faculty studying prostate cancer as an independent investigator. Send curriculum vitae and a list of three potential references to: **University of Michigan, 1150 West Medical Center Drive, 5510 MSRB-1, Ann Arbor, MI 48109-0680, Attn: Marty Davis-Merritts.** *The University of Michigan is an Equal Opportunity Employer.*

IMMUNOLOGISTS

Wyeth-Lederle Vaccines and Pediatrics, a member of the Wyeth-Ayerst family, has been long recognized as a leader in the development and production of vaccines. If you are an experienced immunologist who's looking for a challenging & rewarding opportunity—then come to Wyeth-Lederle.

We invite applications for positions in the Department of Immunology at the SENIOR RESEARCH SCIENTIST and RESEARCH SCIENTIST levels. As a member of an integrated vaccine discovery research team you will interact with scientists from molecular biology, virology and protein chemistry in the design and evaluation of prototype vaccine formulations.

SENIOR RESEARCH SCIENTIST

To qualify, you should have a Ph.D. (or equivalent), 3 – 6 years experience in humoral and cellular immunology, and a knowledge of the mucosal immune systems. Experience with viral agents is preferred. (Job 1031)

RESEARCH SCIENTIST

To qualify, you should have a Ph.D. (or equivalent), 2 – 3 years experience in humoral and cellular immunology, and a knowledge of the mucosal immune systems. Experience with viral agents is preferred. (Job 1028)

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Molecular Biologist/Biochemist

This research position involves identification, isolation and analysis of nucleic acid target sequences to develop diagnostic assays for the detection of human diseases. You will participate in an aggressive, multidisciplinary effort directed toward the development of novel approaches and instrumentation for characterizing nucleic acids.

Requires a PhD in Molecular Biology or Biochemistry with 3+ years' laboratory experience in nucleic acids research. A successful candidate will have "hands-on" experience in techniques used to isolate and purify nucleic acids from biological samples, mRNA analysis, nucleic acid amplification strategies, hybridization methods including Southern and Northern blots, point mutation screening methodologies, cDNA cloning and sequencing. Familiarity with gene databases, probe design and nonradioactive methods for the detection and analysis of RNA and DNA preferred. **Ad #2466/33441**

Nucleic Acid Biochemist/Project Leader

You will lead a team developing fluorescent dye labeled oligonucleotides for instrument-based characterization of nucleic acids. In addition, you will develop high yield, high fidelity enzymatic methods for the incorporation of modified nucleotides into oligonucleotides.

Requires a PhD in Biochemistry with at least 3 years' experience in the following: enzymatic synthesis of RNA or DNA, PCR, nonradioactive methods for the detection and analysis of RNA and DNA, as well as experience in the molecular recognition involved in substrate binding to polymerases. This position additionally requires experience in the leadership of a research group. Preferred backgrounds include knowledge of gene databases, hybridization kinetics, techniques used to characterize diagnostic gene sequences, and the manipulation and characterization of chemically modified oligonucleotides. **Ad #2466/33440**

Bioanalytical Chemist, Project Lead

You will provide technical leadership of a research group which is responsible for the development of novel automated processes for the isolation of polynucleotides from biological/clinical samples in a multidisciplinary team approach.

Requires a PhD in Chemistry or Biochemistry with a focus on nucleic acids, minimum of 3 years' laboratory experience in extraction, isolation, purification and concentration of nucleic acids as well as extensive experience with research management and industrial product development. Experience with development of quantitative assays to determine reproducibility of sample preparation techniques and laboratory experience with HPLC, CE, PAGE a must. In addition, experience in the following areas is desirable: nonradioactive methods for the detection of oligonucleotides, previous work with clinical samples, eukaryotic and prokaryotic culture techniques and nucleic acid amplification. **Ad #2466/29335**

Biophysical Nucleic Acid Chemist

An Experimental Physical Chemist is needed to develop quantitative models and experimental measurements for the efficiency of hybridization of nucleic acids. This position involves modeling, initiating laboratory research, and testing a variety of formats to achieve efficient hybridization of nucleic acids relevant to the area of probe diagnostics.

Requires a PhD in Chemistry or Biochemistry with experience working with DNA and RNA. In-depth knowledge of hybridization kinetics is a must. Knowledge and experience with RNA Biochemistry and DNA and RNA synthetic chemistry preferable. **Ad #2466/38478**

To apply for these Bioscience openings in Palo Alto, California, please send your resume to: **Hewlett-Packard Company, Attn: Ad # (insert ad number of interest), 1266 Kifer Road, MS100D-EY, Sunnyvale, CA 94086**, e-mail: elaine_yamani@hp2200.desk.hp.com or World Wide Web homepage: <http://www.jobs.hp.com>

Hewlett-Packard Company is an equal opportunity employer dedicated to affirmative action and work force diversity.



POSITIONS OPEN

MOLECULAR GENETICIST

A full-time position in either the academic or research track at the **ASSISTANT/ASSOCIATE/FULL PROFESSOR** or **ASSISTANT/ASSOCIATE/FULL RESEARCH SCIENTIST** rank is available at Kresge Hearing Research Institute, Department of Otolaryngology, University of Michigan Medical School. Applicants should have a doctoral degree in Genetics, Molecular Biology or a related field and at least two years of post-doctoral experience. Applicants are expected to have or develop a strong molecular genetics research program related to the auditory system (function, development, deafness), or head and neck cancer. The successful candidate will join a multidisciplinary environment with rich collaborative opportunities in basic and clinical research. There will also be participation in the teaching of graduate and medical students, residents in Otolaryngology and postdoctoral fellows. The successful candidate will be considered for a joint appointment in the Department of Human Genetics. Please send curriculum vitae, statement of research interests, and names of three references by February 15, 1996 to the chair of the search committee: **Dr. Richard Altschuler, Kresge Hearing Research Institute, University of Michigan, 1301 East Ann Street, Ann Arbor, MI 48109-0506.** A Nondiscriminatory/Affirmative Action Employer. Women, minorities and applicants with disabilities are specifically encouraged to apply.

GENETICIST

A tenure-track **ASSISTANT PROFESSOR** position is available in the Biology Department at the University of Dayton. A Ph.D. with an emphasis in genetics and post-doctoral training are required. Candidates should clearly demonstrate a working knowledge of modern techniques as applied to genetic problems. The successful applicant will be expected to develop a nationally competitive research program that will attract outside funding. Teaching duties will include sophomore level genetics lecture and laboratory courses and a graduate level course that will be offered on an occasional basis. In addition, the individual filling this position will be expected to mentor undergraduate and graduate students and otherwise fully participate in the Department's undergraduate and graduate programs. Interested candidates should submit a complete curriculum vitae, a statement of their future research plans, and at least three letters of recommendation to: **Dr. P. A. Tsonis, Department of Biology, University of Dayton, 300 College Park, Dayton, OH 45469-2320.** By November 15, 1995. *The University of Dayton is an Equal Opportunity Employer and welcomes the applications of all qualified candidates.*

PROFESSOR AND CHAIRPERSON DEPARTMENT OF ZOOLOGY

Oregon State University invites applications/nominations of accomplished scientists to provide leadership to the Department of Zoology, in both teaching and research. This tenured 12-month position is funded at 1.0 FTE. Salary is negotiable, commensurate with qualifications and experience. Appointee must have a doctoral degree in zoology, biology or a related discipline and several years' relevant experience at a senior level. Dedication to excellence in undergraduate and graduate education and demonstrated leadership in support of the principles of affirmative action are essential, as is experience in securing and administering research funds. Other administrative experience is desirable. Send a letter of intent, and a curriculum vitae, including a list of publications, to: **Dr. John L. Fryer, Chair, Department of Microbiology, 220 Nash Hall, Oregon State University, Corvallis, OR 97331-3804.** Telephone: 503-737-1834; FAX: 503-737-0496; Email: fryerj@ccmail.orst.edu. Review of files will begin December 1, 1995. *OSU is an Affirmative Action/Equal Employment Opportunity Employer and has a policy of being responsive to dual-career needs.*

FACULTY POSITIONS University of Illinois at Chicago (UIC)

The Physics Department UIC is planning to fill two faculty openings in the areas of Biophysics, Condensed Matter Physics, and Experimental High Energy Physics. Applicants should submit a curriculum vitae, brief statement of research interests, and three letters of recommendation to: **Prof. R. Betts, UIC Physics (M/C 273), 845 West Taylor Street, Room 2236 SES, Chicago, IL 60607.** Application deadline: November 15, 1995. *UIC is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER DEPARTMENT OF CELL BIOLOGY

Applications are invited for a tenure-track faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. Candidates are sought with research interests in areas of molecular cell biology that include but are not restricted to cell cycle and growth control, cell structure and gene expression, transcriptional and post-transcriptional control, developmental regulatory mechanisms, neurosciences, human genetics, or signalling mechanisms. Selection will be based on excellence in research and the potential to maintain an outstanding independent research program. Appointees will participate in medical and graduate education as well as interdisciplinary research and teaching programs. Applicants should send a curriculum vitae, description of research objectives, and names and addresses of three references to: **Dr. Gary S. Stein, Chairman, Department of Cell Biology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655-0106.** *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer and encourages applications from female and minority candidates.*

BEHAVIORAL NEUROSCIENCE

The Department of Psychology at the University of Wisconsin-Milwaukee anticipates an opening in Behavioral Neuroscience beginning in the fall of 1996 pending budgetary approval. The appointment would be tenure-track at the **ASSISTANT PROFESSOR** level. Candidates should have a Ph.D. and significant postdoctoral research experience. Area of specialization is open but outstanding individuals with interests in the neurobiology of learning and memory or sensory physiology are particularly encouraged to apply. For most favorable consideration send curriculum vitae, a statement of research interests, and three letters of recommendation before January 15, 1996 to: **Dr. Fred J. Helmstetter, Behavioral Neuroscience Search Committee, Department of Psychology, University of Wisconsin, P.O. Box 413, Milwaukee, WI 53201.** The names of those applicants who have not requested that their identities be withheld and the names of all finalists will be released upon request. *The University of Wisconsin-Milwaukee is an Equal Opportunity/Affirmative Action and ADA Employer. Minority and women applicants are encouraged to apply.*

ASSOCIATE/PROFESSOR Co-Director of Retinal Pigment Epithelium/ Retinal Transplant Program

Position available for transplant scientist to head a new research program focusing on transplantation of retinal pigment epithelium (RPE) and/or photoreceptors as a possible treatment for diseases affecting the RPE and retina. Expertise in immunology desirable. Ph.D. scientist at or eligible for **ASSOCIATE PROFESSOR** level. Strong public relations and language skills encouraged. Must have experience in transplantation biology, preferably experienced in cell transplantation, including outside the visual system (islet cell, Parkinson's, etc.). M.D. Send inquiries to: **Paul Sternberg, Jr., M.D., Emory University, Department of Ophthalmology, 1327 Clifton Road, Atlanta, GA 30322.** *Emory University is an Affirmative Action/Equal Opportunity Employer.*

Invertebrate Zoologist. The Department of Biology at Illinois Wesleyan University has a tenure-track opening at the **ASSISTANT PROFESSOR** level in invertebrate zoology. The candidate should have a Ph.D., a broad background in biology, and a strong commitment to undergraduate excellence. Responsibilities include teaching invertebrate zoology (introductory course and upper-level seminar), the invertebrate lectures of the general biology course (six lectures), two general biology labs each semester, and a general education course. Teaching load is 24 contact hours per year. Facilities are housed in a new \$25 million science center. Appointment begins August 1996. Applicants should submit a letter of application, curriculum vitae, transcripts, a one page statement of teaching philosophy, and three letters of recommendation (including comments on teaching effectiveness) to: **Dr. Bruce B. Criley, Chair, Biology Department, Illinois Wesleyan University, P.O. Box 2900, Bloomington, IL 61702-2900.** Applications will be considered beginning November 1, 1995 and continue until the position is filled. *An Equal Opportunity Employer; women and minorities are encouraged to apply.*

POSITIONS OPEN

PLANT ECOLOGIST

The Ecology and Evolution Group of the 40 member Department of Biological Sciences at the University of Illinois at Chicago is recruiting a tenure-track **ASSISTANT PROFESSOR** to start in 1996-97. Applicants must have a Ph.D., an interest in and ability to teach effectively at the undergraduate and graduate levels, and be able to direct productive research and develop a funded research program. The research area is open but we are especially interested in applicants who use physiological approaches to study terrestrial or wetland systems. We favor those who study how environmental change affects biological diversity. The successful applicant can expect an excellent startup package and release from teaching in the first year. Please send a letter of application, curriculum vitae, statements of teaching and research plans, at least four letters of recommendation, and further inquiries to: **Dr. Tom Poulson, Chair, Plant Ecology Search, University of Illinois at Chicago, Department of Biological Sciences (m/c 066) 845 West Taylor Street, Chicago, IL 60607-7060.** Email: U38592@uicvm.cc.uic.edu; FAX: 312-413-2435; Telephone: 312-996-4537. Screening will start 15 October 1995; closing date 15 November 1995. *University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR Baylor College of Medicine

The Department of Molecular Physiology and Biophysics has a tenure-track **ASSISTANT PROFESSOR** position available. Qualifications include a doctorate in one of the biological sciences and at least two years of postdoctoral training. The candidate should have a research program in the area of structure and function of membrane proteins. We are especially interested in candidates working with ion channels or other membrane proteins in the cardiovascular system and who have demonstrated ability to obtain research funding. Please send curriculum vitae, a statement of research interests, and three letters of recommendation to: **Chair, Recruiting Committee, Department of Molecular Physiology and Biophysics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** Closing date for applications is December 31, 1995.

Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.

CURATOR, TECHNOLOGY PROGRAMS

Seeking a creative individual who has a demonstrated interest in public education to develop, implement, and manage a major new exhibit theme area on technology; develop content for educational programs and materials that support these exhibits; and develop working relationships with public and private sectors of the technical community. Possession of an earned doctorate in physics, computer science, or a related scientific field and three years of experience in any of the following: teaching at the college or university level; exhibit and education program development at science museums, or equivalent educational experience in the public understanding of science, such as print or film media; and one year of experience in an administrative or supervisory capacity. \$5,176 to \$5,706 per month. Submit résumé and three letters of reference to: **Ann M. Muscat, Ph.D., California Museum of Science and Industry, 700 State Drive, Los Angeles, CA 90037.** *Equal Opportunity Employer.*

The Department of Anatomy of the University of Arkansas for Medical Sciences (UAMS), which has a strong emphasis on neuroscience, is seeking qualified applicants for a tenure-track position at the rank of **ASSISTANT or ASSOCIATE PROFESSOR.** Candidates for Associate Professor must have current research funding and have demonstrated research productivity. Responsibilities include development or continuation of independent research support; participation in medical and graduate school teaching; and training of pre- and postdoctoral scientists. Preferred research areas include interactions between the nervous system and the immune system or extracellular matrix in the CNS. Submit curriculum vitae (including a statement of research interests and teaching experience) and a list of three references to: **Dr. S. A. Gilmore, Professor and Chairman, Department of Anatomy (510), University of Arkansas for Medical Sciences, 4301 West Markham Street, Little Rock, AR 72205-7199.** Telephone: 501-686-5198; FAX: 501-686-6382. *UAMS is an Affirmative Action/Equal Opportunity Employer.*

SANDOZ RESEARCH INSTITUTE

At Sandoz Research Institute in East Hanover, New Jersey, nearly 1000 scientists and R&D staff members, collaborating with colleagues from around the world, pursue one fundamental quest: to discover and develop innovative medicines that will significantly improve the quality of health care. Innovative research at Sandoz has been enhancing medicine around the world for over a century. Pioneering drugs have extended and improved the quality of life for countless individuals and revolutionized basic scientific concepts within the transplantation and mental health fields. In our East Hanover Laboratories, scientists in Preclinical Research are making exciting discoveries in the fields of Metabolic Diseases and Oncology. In order to support these activities, the following positions are now available.

FELLOW - ANGIOGENESIS

The successful candidate will be responsible for the development of *in vivo* models of angiogenesis and metastasis as part of a large preclinical oncology research program. Responsibilities will include the testing of agents in these models to identify novel inhibitors of tumor angiogenesis. The candidate will also be responsible for performing pharmacological analyses and studies to characterize the selectivity and mechanism of action of these agents.

Candidates should have a Ph.D. with at least seven years of relevant experience in the areas of tumor biology, tumor angiogenesis and *in vivo* modeling in cancer. Extensive knowledge of tumor physiology and cancer pharmacology is also required and hands-on experience with a variety of *in vivo* tumor models and immunohistochemical techniques would be an advantage. Candidates should also have significant experience in the area of preclinical drug development. **(Position #3447)**



SANDOZ

bringing research to life

POSTDOCTORAL FELLOW COMBINATORIAL CHEMISTRY - ASSAY METHODS DEVELOPMENT

This position in our Combinatorial Chemistry Group offers a unique opportunity to a creative individual to utilize multidisciplinary skills to develop novel methods for assaying combinatorial compound collections for biological activity. A Ph.D. or equivalent in a relevant chemical or biological science with experience in biological assay development is preferred. Practical experience with various biochemical, chromatographic and spectroscopic techniques are highly desirable. These may include, but are not limited to: protein purification, conjugation and analysis, enzyme assays, immunoassays, low and high pressure liquid chromatographies and mass spectrometry. Experience working with whole cells and knowledge of receptor chemistry would also be desirable. Previous experience in the field of combinatorial chemistry would be advantageous but is not required. **(Position #PD-037)**

Postdoctoral appointments are for one year but are renewable for a second year by mutual agreement. Sandoz Research Institute provides scientists with an environment that encourages creative thinking and ample opportunities for publication and research presentations.

Sandoz offers comprehensive health, dental and savings plans as well as an attractive location in northern New Jersey. For consideration, please specify the number of the position you are responding to and forward your curriculum vitae and the names and addresses of three references to the address below.

SANDOZ PHARMACEUTICALS CORP

Staffing Department

Building 122/3

East Hanover, NJ 07936-1080

An Equal Opportunity Employer M/F/D/V

Genetic Analysis Scientist

LI-COR, a growing company that has produced automated systems for biological and environmental sciences for 25 years, has an opening for an Applications Scientist in the Molecular Biology Group.

The Applications Scientist will develop new products and applications for genotyping, write technical publications, and participate in the technical sales and support process. This individual will play a key role in setting directions for product development in genetic analysis.

The successful candidate will have a Ph.D. in molecular genetics or a related discipline with at least 2-3 years experience in mapping of disease genes and genotyping of a variety of loci through the use of STR, RFLP, VNTR, and related genotyping methods. Familiarity with basic molecular biology techniques, including DNA sequencing, PCR, hybridization, non-isotopic detection and a working knowledge of genotyping and DNA analysis software is also required. Post-doctoral experience and/or industrial experience is desirable.

LI-COR offers competitive salaries and benefits. For consideration, submit your C.V. or resume to the Human Resources Dept., LI-COR, Inc., 4421 Superior Street, Lincoln, NE 68504. EOE.

LI-COR®
BIOTECHNOLOGY DIVISION

BIOGEN

OUR EXPANDING UNIVERSE

Earlier this year, clinical research was completed on our lead proprietary biologic, a treatment for multiple sclerosis. We recently filed a Product License Application with the U.S. Food and Drug Administration seeking market approval for the product. We owe our success thus far to the hard work and dedication of our staff. Now, as we prepare to commercialize our first proprietary product, we seek talented individuals with strong values and a high level of commitment in a wide variety of areas to aid in our continued success.

Director - Biological Sciences

We are currently seeking a proven scientific leader to direct our efforts in the areas of molecular biology/molecular genetics. In this role, you will oversee the work of approximately forty talented individuals focused in the areas of growth regulation, viruses, gene therapy and vascular biology. The successful candidate will hold a Ph.D. in Molecular Biology and have a minimum of ten years' experience in project and/or line management. He/she will have a distinguished record of scientific achievement, a strong publication history, and will be well-versed in the use of molecular techniques. Industry experience is desirable, but not required.

Biogen offers what few companies in our industry can - Professional Challenge, Stability, Growth, and one of the strongest financial profiles in the industry. In addition, our compensation and benefits package, including equity participation, is one of the best in the industry, and is designed to attract and retain the finest talent available. If you are one of the best, this is your opportunity to join our expanding universe. Please forward your resume to the address below. For more information about opportunities at Biogen, find us on the World Wide Web at CareerMosaic: <http://www.careermosaic.com>

Biogen, Inc., Dept. JT, 14 Cambridge Center,
Cambridge, MA 02142. FAX: (617) 679-3595

BIOGEN

Biogen is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR TENURE-TRACK

Georgetown University School of Medicine
Department of Pharmacology

The Department of Pharmacology at Georgetown University invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. A strong preference will be given to individuals with knowledge of and/or training in pharmacology and a research program oriented toward molecular and cellular approaches to signal transduction.

Candidates should forward their curriculum vitae, a summary of research interests with an indication of future research directions, and arrange for three letters of recommendation to be sent to: **Dr. Barry B. Wolfe, Chair, Pharmacology Search Committee, Georgetown University School of Medicine, 3900 Reservoir Road NW, Washington, DC 20007.** *Georgetown University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR CELL/DEVELOPMENTAL BIOLOGY

The Department of Anatomy at the Louisiana State University Medical Center-New Orleans seeks to identify a **TENURE-TRACK FACULTY** candidate with a Ph.D. and at least three years of postdoctoral experience. Scientists with research programs in the general areas of cell and developmental biology using a molecular approach are especially encouraged to apply. Salary levels are competitive, with ample space and start-up funds. Teaching responsibilities will be in the area of dental/medical histology. For consideration, send a curriculum vitae, research interests, and names of three references to: **Dr. R. Ranney Mize, Head, Department of Anatomy P6-2, LSU Medical Center, 1901 Perdido Street, New Orleans, LA 70112.** *An Equal Opportunity/Affirmative Action Employer.*

Georgetown University. The Department of Chemistry invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level in the area of organic chemistry. Preference will be given to applicants with research interests in areas that complement those of the current faculty. The successful candidate should be committed to excellence in both undergraduate and graduate education, and will be expected to establish a vigorous, well-funded research program. Applicants should submit a curriculum vitae, selected reprints, and a summary of research plans, and have three letters of reference sent directly to: **Chair, Faculty Recruiting Committee, Department of Chemistry, Georgetown University, Box 571227, Washington, DC 20057-1227,** preferably by December 1, 1995. *Georgetown University is an Equal Opportunity/Affirmative Action Employer; applications from women and underrepresented minorities are encouraged.* <http://www.georgetown.edu/departments/chemistry/chemistry.html>.

Cornell University. The Department of Chemistry is searching for a tenure-track faculty member at the **ASSISTANT PROFESSOR** level. Outstanding candidates with research focused in the area of experimental biophysical chemistry will be considered. A Ph.D. degree is required. Applicants should submit a graduate transcript, curriculum vitae, publication list, and separate summaries of research experience and research plans. These materials and three letters of recommendation should be sent to: **Professor Barbara A. Baird, Department of Chemistry, Baker Laboratory, Cornell University, Ithaca, NY 14853-1301,** and be received no later than November 15, 1995. The successful applicant will be expected to teach physical chemistry courses and carry out an effective research program focused in areas other than x-ray crystallographic or NMR determination of protein structure. *Cornell University is an Affirmative Action/Equal Opportunity Employer and Educator.*

The Department of Biology at Northeastern Illinois University seeks a tenure-track **ASSISTANT PROFESSOR** in terrestrial ecology, beginning fall 1996. Earned doctorate required. Teaching undergraduate and graduate courses in ecology and general biology courses expected. Research and service are encouraged and expected. Send curriculum vitae, letter of application, and three letters of reference, at least one concerning teaching effectiveness, to: **Dr. Simon Chung, Chair, Department of Biology, Northeastern Illinois University, 5500 North St. Louis Avenue, Chicago, IL 60625.** Review of applications will begin November 1, 1995. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN



Thomas
Jefferson
University

Jefferson
Medical
College

FACULTY POSITIONS Center for Human Retrovirology

The newly created Center for Human Retrovirology, an interdepartmental program, invites applications for two tenure-track faculty positions at the **ASSISTANT, ASSOCIATE** and/or **FULL PROFESSOR** levels. This Center seeks to expand the University's strengths in the study of human retroviruses and novel molecular therapeutics to combat HIV infections. Applicants should have a Ph.D. and/or M.D. and a strong background, with an established program, in retrovirology. Significant laboratory space and competitive funds are available for outstanding candidates.

Interested individuals should send a curriculum vitae with a summary of their research programs to:

Roger J. Pomerantz, M.D.

Professor of Medicine

Director, Center for Human Retrovirology (CHR)

Thomas Jefferson University

1020 Locust Street, Suite 329, Jeff Alumni Hall

Philadelphia, PA 19107

FAX: 215-923-1956

An Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK MOLECULAR BIOLOGIST

ASSISTANT PROFESSOR to teach cell biology, other courses at one of the nation's leading small colleges—ca. 140 biology majors, high national rankings, substantial endowment, focus on discovery-based learning/student-faculty research. Must have Ph.D. and strong commitment to excellence in teaching and research and potential for fundable research program. Postdoctoral experience a plus. Located in a major regional health center, research associations with the nearby LSU Medical Center are encouraged. Many students are employed in LSUMC labs, and their acceptance rate into medical/graduate school is exceptionally high. Submit curriculum vitae, transcripts, teaching philosophy, research plan, three supporting letters to: **Dr. A. Bradley McPherson, Watters Professor of Biology, Centenary College, Shreveport, LA 71134.** Email: bmcpers@beta.centenary.edu. Dossier review will begin immediately and continue until position filled. *Affirmative Action/Equal Opportunity Employer.*

NEUROBIOLOGIST TENURE-TRACK

Department of Pharmacology, University of Colorado School of Medicine seeks a developmental neurobiologist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, tenure-track. An independent research program is expected. Responsibilities will include supervising human neurotransplantation tissue culture facility and teaching Pharmacology to medical and graduate students. M.D. or Ph.D. and postdoctoral fellowship required. Send curriculum vitae to: **Curt R. Freed, M.D., University of Colorado Health Sciences Center, C-237, 4200 East Ninth Avenue, Denver, CO 80262.** *University of Colorado Health Sciences Center is committed to Equal Employment Opportunity and Affirmative Action.*

FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY Stanford University School of Medicine

Applications or nominations are invited for a faculty position in the Department of Biochemistry at the level of **ASSISTANT PROFESSOR**.

Applicants should have an established record of excellence in original research and in teaching. Candidates should submit a curriculum vitae including a list of publications, a description of their research interests, and names, addresses and telephone numbers of three references to: **Search Committee Chairman, Department of Biochemistry, Beckman Center, Stanford University School of Medicine, Stanford, CA 94305-5307.**

Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

POSITIONS OPEN

PROFESSORSHIP

Industrial Environmental Management
Yale University

The Yale University School of Forestry and Environmental Studies seeks to appoint a tenured **PROFESSOR** of Industrial Environmental Management. The individual is expected to conduct a research program and a teaching program in the general area of pollution management. A doctoral degree and experience consistent with a senior appointment is required. We are looking for a broad individual with training in a related field such as management science, risk analysis, engineering, economics, psychology, or industrial ecology.

Please send curriculum vitae, statement of research and teaching interests, the names and addresses of three references, and selected samples of academic or professional work to: **Professor Robert Mendelsohn, Chair of IEM Search, Yale FES, 360 Prospect Street, New Haven, CT 06511.**

Deadline for receipt of applications is November 15, 1995 or until suitable candidates are found. The position will be available as early as September 1, 1996. For further information about the position, call **203-432-5128.** *Yale University is an Equal Employment/Affirmative Action Employer. Women and minorities are encouraged to apply.*

The Center for Human Nutrition at the University of Colorado Health Sciences Center invites applications for a molecular biologist at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Successful candidates will be expected to establish an independent research program that is related to nutrition, direct the Molecular Biology Core Laboratory of the newly funded Clinical Nutrition Research Unit, and participate in center activities. Applicants should submit a curriculum vitae, up to three relevant publications, and a statement of research interests/goals, and three letters of reference by November 30, 1995. Mail to: **Michael J. Pagliassotti, University of Colorado Health Sciences Center, 4200 East Ninth Avenue, C225, Denver, CO 80262.** *The University of Colorado is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

ASSISTANT PROFESSOR. Department of Natural Science, Loyola University Chicago, invites applications to fill a tenure-track position for fall 1996. Applicants must have a Ph.D., a well-defined interest in teaching non-science majors, and a strong commitment to excellence in teaching at the undergraduate level. The successful applicant will be expected to establish an active research program, preferably in Environmental Science. Applicants with excellent teaching credentials and a record of published research in other biological disciplines will also be considered. Teaching responsibilities include courses in Environmental Science and other Core curriculum courses appropriate to the applicant's expertise. Send curriculum vitae, statement of teaching and research interests, and names, addresses, and telephone numbers of three references by December 31, 1995 to: **Dr. John J. Rastovac, Chairperson, Department of Natural Science, Loyola University Chicago, 6525 North Sheridan Road, Chicago, IL 60626.** *Loyola University Chicago is an Equal Opportunity Educator and Employer.*

Announcement FACULTY POSITION OPENINGS. Assistant Professor and Assistant/Associate Professor. Cellular and Molecular Physiology. The Department of Physiology, University of Wisconsin-Madison, invites applications for tenure-track positions at the rank of Assistant Professor or Associate Professor. The Department is developing a focus in membrane transport physiology. We specifically seek applicants who study carrier-mediated transport or vesicular transport across cell membranes, although outstanding applicants in other areas of molecular physiology will be considered. Opportunities for participation in campus-wide interdisciplinary research and training programs are excellent. Successful candidates will teach renal, gastrointestinal or respiratory physiology and will participate fully in the graduate and professional teaching programs of the department.

Applicants should send curriculum vitae, a one or two page summary of research interests and plans, and three letters of reference to: **Dr. Richard L. Moss, Chair, Department of Physiology, University of Wisconsin, 1300 University Avenue, Madison, WI 53706.** Applications will be accepted until October 19, 1995. *The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

**Postdoctoral
Research Associate**

position is available for a recently qualified Ph.D. to join a research group focusing on the modulation of gene expression by ribozymes in tumor cells. Studies will involve the design and application of viral constructs containing both antisense DNA and ribozymes targeted towards unique tumor-specific transcripts. A strong background in mammalian cell culture and molecular biology with experience in either adenoviral or retroviral vectors would be advantageous.

Send c.v. and names of three references to:

Dr. Philip Potter
Department of Molecular Pharmacology
St. Jude Children's Research Hospital
332 N. Lauderdale
Memphis, TN 38105

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SCIENTISTS

DRUG METABOLISM

Boehringer Ingelheim Pharmaceuticals, Inc., a highly respected pharmaceutical company with a firm commitment to growth through innovation, is currently seeking to add **qualified and motivated scientists** to its expanding Research and Development staff.

As a major pharmaceutical company, Boehringer

Ingelheim has made a commitment to innovation through our world class R&D facilities, programs and scientific staff. Explore the opportunities in our department, in surroundings where creativity drives the search for novel drug therapies targeting critical human diseases with unmet therapeutic needs.

The current positions are in a laboratory responsible for providing information on the absorption, distribution, metabolism and excretion of drug candidates at the preclinical stage of drug development.

The incumbents will conduct independent studies to determine drug pharmacokinetics, absorption, tissue distribution, routes of drug elimination, and metabolite profiles in biological samples using both unlabeled and radio labeled compounds. **In addition to learning and implementing established procedures, the position will involve the development of innovative methods to deal with challenging new problems.** A high level of proficiency in small animal surgery (rats) or large animal surgery (dogs and monkeys), experience working with radioisotopes *in vivo*, and **experience in liquid scintillation counting is required.** *An understanding of analytical methods (e.g. ELISA, HPLC, RIA) is desirable.* The candidates we seek must possess a **Master's degree or a BS degree and equivalent experience** in a biomedical discipline. Excellent written and oral communication skills are required.

Boehringer Ingelheim's R&D facility is located on a campus-like setting in a beautiful area of western Connecticut. We offer excellent facilities and a supporting/challenging environment. For an opportunity to contribute to our innovative programs, please send your resume and a brief cover letter to: Dept JP-1S, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877-0368. We are an equal opportunity employer. As a progressive health care company, we have a non-smoking environment



**Boehringer
Ingelheim**

UNIVERSITY OF REGINA

DEPARTMENT OF BIOLOGY TWO ASSISTANT PROFESSORSHIPS

The Biology Department has two tenure-track vacancies to fill, one in **AQUATIC BIOLOGY**, and one in **CELL BIOLOGY**. Both positions are to be filled by 1 July 1996, or shortly thereafter and are subject to budgetary constraints. One of the successful candidates will be responsible for the third-year majors course in invertebrate biology, as part of the duties.

Post-doctoral experience of 2 - 5 years will be an advantage. Preference will be given to candidates with a strong commitment to research and teaching at the undergraduate and graduate levels (MSc and PhD) in a medium-sized university. Research will be encouraged by start-up funds and reduced teaching loads in the first two years. Teaching duties will consist of participation in courses at the general introductory level and responsibility for advanced courses in the area of specialization.

Applicants shall send a curriculum vitae and expanded outline of research interests. Please include the names of four referees. All correspondence is to be addressed to: **Dr. Diane Secoy, Head, Department of Biology, University of Regina, Regina, SK S4S 0A2, Canada. (FAX 306-585-4894; PHONE 306-585-4231; EMAIL secoy@max.cc.uregina.ca)** The closing date for applications is 31 December 1995.

In accordance with Canadian Immigration requirements: this advertisement is directed in the first instance to Canadian citizens and permanent residents.

The University of Regina is committed to employment equity. We welcome applications from all, especially women, visible minorities, people with disabilities, and aboriginal peoples.

SENIOR ACCELERATOR DESIGNER

Oak Ridge National Laboratory (ORNL) is seeking a senior scientist to assemble a group to design the accelerator systems for a high-powered, pulsed, spallation neutron source. Applicants should have a PhD and/or extensive experience in designing accelerator systems (ion sources/linacs/fast cycling synchrotrons/accumulator rings), in beam optics and integration, and experience in managing a design group. The tasks include working with ORNL management to assemble an accelerator design team, to define the scope of the accelerator design, to interface with existing ORNL spallation source design efforts, and to work with other DOE laboratories, industry, and universities to achieve an integrated conceptual

design for a spallation neutron source. The position becomes available October 1, 1995.

ORNL, a multipurpose research facility managed by Lockheed Martin for the U.S. Department of Energy, offers a competitive compensation and benefits package, including relocation. For immediate consideration, submit a resume to: Search Committee, c/o B.R. Appleton, Associate Director for Advanced Materials, Physical, and Neutron Sciences, Dept. SCI-929, Oak Ridge National Laboratory, P.O. Box 2008, Oak Ridge, TN 37831-6240.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.



POSITIONS OPEN

BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

Faculty positions are available in 1995/1996 in the Department of Biochemistry, at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants must have a Ph.D. or M.D. degree, or both, and appropriate formal postdoctoral research experience. Joint appointments in clinical science are possible. We are seeking individuals who have potential or demonstrated competence in the use of molecular biological or biophysical approaches to conduct research in molecular medicine, or on fundamental biochemical/cell biological problem(s). Selected individuals must also be capable of, and committed to making significant contributions to teaching and administrative functions of the Department of Biochemistry. Successful applicants will be expected to develop/maintain a funded research program of high quality and to substantially participate in the graduate and professional (medical, dental and applied health) school teaching programs of the Department. Applicants should send curriculum vitae, a statement on teaching interests, names of four individuals who may be contacted for reference, and a summary (not exceeding four pages) of potential research project(s) to: **Ifeyanyi J. Arinze, Ph.D., Chairman, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208.** An Equal Opportunity/Affirmative Action Employer.

STANFORD UNIVERSITY DEPARTMENT OF PATHOLOGY

The Department of Pathology seeks outstanding scientists for tenure-track appointment as **ASSISTANT** or **ASSOCIATE PROFESSOR**. Successful candidates are expected to develop a high quality, independent research program in an area related to molecular and cellular mechanisms of disease. Of particular interest are candidates focusing on cancer biology or cardiovascular disease processes. Applicants with Ph.D., M.D., or combined degrees will be considered. There are also possibilities for qualified applicants to participate in clinical activities. Applicants should submit a curriculum vitae, a brief description of research accomplishments, and a concise statement of plans for future research. These, with the names of three references, should be sent to: **Klaus Bensch, Professor and Chairman, Department of Pathology, Stanford University School of Medicine, Stanford, CA 94305.** Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates.

CHAIRPERSON of Microbiology and Immunology: The School of Medicine of the University of North Dakota invites applications and nominations for the position of Chairperson of the Department of Microbiology and Immunology. We seek an outstanding medical scientist who will provide the leadership to ensure an excellent teaching program and productive research focus.

Those interested in the position should send a curriculum vitae to: **Dr. David W. Hein, Chairman of the Department of Pharmacology and Toxicology and Chair of the Search Committee, c/o Office of the Dean, School of Medicine, University of North Dakota, Box 9037, Grand Forks, ND 58202-9037.** Nominations and suggestions should also be sent to **Dr. Hein**. Review of applications will begin as soon as they are received. Applications should be received prior to December 15, 1995, but the search will remain open until the position is filled.

The University of North Dakota is an Equal Opportunity/Affirmative Action Institution.

Microbiology/Immunology: The Department of Biology at Drew University invites applications for a three semester sabbatical replacement position at the **ASSISTANT PROFESSOR** level (From February 1996 to May 1997). Candidates should hold a Ph.D. degree in microbiology or immunology; at least two to three years of teaching/research experience is also expected. Duties include teaching courses in microbiology and immunology with laboratories and a lecture course in virology, and supervising undergraduate research projects. Applicants should send curriculum vitae, statement of teaching and research philosophy, and three letters of reference to: **Dr. Afeworki A. Mascio, Department of Biology, Drew University, 36 Madison Avenue, Madison, NJ 07940** by November 7, 1995. *Drew University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.*

POSITIONS OPEN

SIGNAL TRANSDUCTION CORNELL UNIVERSITY

The Department of Pharmacology at the College of Veterinary Medicine, Cornell University is re-opening its search for an **ASSISTANT PROFESSOR**. Candidates using molecular approaches in the study of cell signal transduction will be considered. Responsibilities include the teaching of pharmacology to veterinary and graduate students, participating in the development of a strong graduate student training program in association with our NIH training grant in Biophysical and Biochemical Pharmacology, and establishing an outstanding research program. Current research interests in the department include cell regulation, structure and function of receptors and ion channels, membrane-bound and intracellular signaling systems, exocytosis, and transmembrane ion transport. Candidates should have the D.V.M., M.D., Ph.D. or equivalent degree, should be firmly committed to an academic career in teaching and research, and have strong or potentially strong research programs. Salary will be commensurate with qualifications and experience. Letters of application, together with a curriculum vitae and three letters of recommendation, should be sent to: **Dr. Geoffrey W. G. Sharp, Chairman, Department of Pharmacology, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401.** FAX: 607-253-3659. Additional information can be obtained via Email by contacting Mrs. Marge McKinney at mfm1@cornell.edu or through Gopher: zoo.vet.cornell.edu. *Cornell University is an Equal Opportunity/Affirmative Action Educator and Employer. Women and minorities are strongly urged to apply.*

GENETICIST VERTEBRATE PHYSIOLOGIST CELL AND MOLECULAR BIOLOGIST University of Richmond

The Department of Biology at this highly selective liberal arts university invites applications for three tenure-track **ASSISTANT PROFESSOR** positions, to begin August 1996. A Ph.D. degree, strong commitment to teaching, ability to establish a research program in which undergraduate and Master's students can participate, and a willingness to consider collaborating with other faculty in teaching and research are expected. Teaching will include one of the core courses for biology majors (Botany, Zoology, Cell and Molecular Biology, Genetics), upper level courses in a specialty area (possibly cell signaling, comparative vertebrate physiology, evolutionary/population genetics, immunology, molecular genetics), and an occasional course for nonmajors. Preference to those with teaching and postdoctoral experience. All applicants must indicate the specific position(s) for which they are applying; a single application may suffice for more than one position. Submit by November 25, 1995, curriculum vitae, statements of teaching philosophy and research interests, official graduate and undergraduate transcripts, and three letters of recommendation to: **Dr. Valerie M. Kish, Chair, Department of Biology, University of Richmond, Richmond, VA 23173-9998.** FAX: 804-289-8233; Email: kish@urwax.urich.edu. *The University of Richmond is an Equal Opportunity/Affirmative Action Employer and strongly encourages women and minorities to apply for its positions.*

MOLECULAR GENETICIST

The Department of Biological Sciences, University of Denver invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin September 1, 1996. The successful candidate will be expected to have postdoctoral experience, develop a funded research program, and direct graduate students at the M.S. and Ph.D. levels. Teaching responsibilities will include an undergraduate course in molecular genetics, a molecular biology laboratory, and other courses dependent on research interests but consistent with conducting a strong research program. The exact area of research is open. Submit curriculum vitae, two recent publications, three letters of reference, and statements of teaching and research interests to: **Dr. Jim Fogleman, Department of Biological Sciences, University of Denver, Denver, CO 80208.** Applications should be received by December 1, 1995 to ensure consideration. *The University of Denver is committed to enhancing the diversity of its faculty and staff and encourages applications from women, minorities, persons with disabilities, and veterans.*

POSITIONS OPEN

TWO FACULTY POSITIONS DEPARTMENT OF BIOLOGY Indiana University, Bloomington

The Department of Biology invites applications for **TWO TENURE-TRACK POSITIONS**, in the areas of: (i) Developmental Genetics, and (ii) Molecular Biology/Biochemistry. We seek candidates with strong records of research accomplishment; both positions may be filled at any rank. Successful candidates will be expected to pursue vigorous independent research programs and to contribute to the department's teaching.

Applications should include a curriculum vitae and a summary of future research plans. Candidates at the Assistant Professor level should arrange to have three (or more) letters of recommendation forwarded to the search committee. Applications received by December 1, 1995, will be assured of consideration. Send applications to: **MCDB Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405.**

For more information about the department, see our home page: <http://www.bio.indiana.edu>. *Indiana University is an Affirmative Action/Equal Opportunity Employer, and strongly encourages women and members of minority groups to apply.*

DEVELOPMENTAL GENETICIST

The Faculty of Biological Science, University of Tulsa, invites applications for the position of **ASSISTANT PROFESSOR** of Developmental Genetics. Outstanding candidates from all areas of developmental genetics will be considered. The University of Tulsa is a comprehensive, private university that emphasizes excellence in teaching and research. The Faculty of Biological Science currently consists of 14 members with diverse research interests and offers B.S., M.S., and Ph.D. degrees. Salary and start-up funds will be competitive. The successful candidate will have a Ph.D., a commitment to excellence in graduate and undergraduate education, post-doctoral experience, and a publication record indicative of the ability to establish an independent, externally-funded research program. Teaching responsibilities will include development of a graduate course in area of specialization and participation in the undergraduate curriculum. Applicants should submit a curriculum vitae, a statement of teaching and research interests, several recent reprints, and arrange to have three letters of reference sent to: **Chair, Developmental Geneticist Search Committee, Faculty of Biological Science, The University of Tulsa, 600 South College Avenue, Tulsa, OK 74104-3189.** Review of applications will begin December 1, 1995, and continue until the position is filled. *The University of Tulsa is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITIONS University of Pennsylvania School of Medicine Department of Biochemistry and Biophysics

The Department of Biochemistry and Biophysics at the University of Pennsylvania School of Medicine invites applications from outstanding candidates for full-time faculty appointments. The search will focus on individuals with research interests in molecular biology and strong backgrounds in biochemistry, chemistry or physics.

Candidates should forward their curriculum vitae, a summary of research interests, and arrange for three letters of recommendation to be sent to: **Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6059.**

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

Pharmacology/Toxicology: ASSISTANT PROFESSOR, tenure-track position available January 1, 1996. Ph.D. in Pharmacology/Toxicology required. A degree in pharmacy is desirable. Team teaching of biomedical science and graduate courses, student advising, and extramural-supported scholarly research is expected. Submit letter of intent, curriculum vitae, statement of research interests, names, addresses and telephone numbers of three references to: **E. W. Fochtman, Ph.D., Chair, Search Committee, Department of Pharmacology/Toxicology, School of Pharmacy, Duquesne University, Pittsburgh, PA 15282.**

Major Opportunities in Biomedical Research at the Mount Sinai School of Medicine

The Mount Sinai School of Medicine, with the completion of its new East Building next year, will effectively double its space dedicated to biomedical research and education. New research initiatives will complement and expand the existing research programs in cancer research, cardiovascular sciences, developmental biology, human genetics and gene therapy, immunobiology, molecular genetics, neurobiology of aging, signal transduction, structural biology and systems physiology.

To support these initiatives, Mount Sinai is recruiting 75 new tenure-track faculty members for the Departments and Centers of the Medical School. Research groups organized around the areas of interest will include faculty at the ranks of Professor, Associate Professor and Assistant Professor. New faculty members will be expected to develop highly meritorious, independent research programs and to participate in the training of Ph.D., M.D. and M.D./Ph.D. students, and post-doctoral fellows.

Nominations and applications of the highest quality may be sent to: Dr. Nathan G. Kase, Dean, Mount Sinai School of Medicine, One Gustave L. Levy Place, Box 1096, New York, NY 10029. Please send your curriculum vitae, bibliography, statement of research interests and three references. For additional information, please call (212) 241-7335. Mount Sinai is an equal opportunity/affirmative action employer.

Mount
Sinai

Harvard Medical School - McLean Hospital Alcohol and Drug Abuse Research Center

Applicants are invited to apply for post-doctoral research training (National Research Service Awards) at the Alcohol and Drug Abuse Research Center on the grounds of McLean and at the Harvard Medical School.

The Alcohol and Drug Abuse Research Center is a multidisciplinary research program which includes basic, clinical and treatment research. Trainees may participate in research on the molecular and behavioral pharmacology of substance abuse; the neuroendocrine consequences of cocaine, heroin and alcohol abuse; the effects of drug abuse on the brain as assessed by brain imaging techniques (MRI, MRS, SPECT, and EEG); the evaluation of the safety and effectiveness of new pharmacotherapies for the treatment of drug abuse. The research program emphasizes analysis of the antecedents of consequences of drug abuse by women. McLean Hospital is an affiliate of the Harvard Medical School and the Massachusetts General Hospital and is located in Belmont, MA, a suburb of Boston. Salary is commensurate with experience (PGY 1 to PGY 7).

Please send a curriculum vitae, reprints of some recent papers, a brief statement about research interests and goals, and the names of three references (including complete addresses and telephone numbers) to:

Jack H. Mendelson, Professor of Psychiatry (Neuroscience) or Dr. Nancy K. Mello, Professor of Psychology (Neuroscience), Co-Directors, Alcohol and Drug Abuse Research Center, McLean Hospital, 115 Mill Street, Belmont, MA 02178.

McLean Hospital is an AA/EEO employer and is committed to diversity in the workplace.



McLean Hospital

FAIRFIELD UNIVERSITY



BIOLOGY

Two Assistant Professors. Tenure track positions starting September 1996. Candidates with Ph.D. and a strong commitment to undergraduate teaching and research are encouraged to apply. Start-up monies are available.

Microbiologist/Molecular Biologist

Teaching responsibilities include lecture/laboratory courses in microbiology for biology and nursing majors and an upper division molecular laboratory course. Participation in the introductory biology course and in grant-writing initiatives are expected.

Molecular Developmental Biologist

Teaching responsibilities include lecture/laboratory courses in genetics and developmental biology for biology majors and the development of an upper division elective course. Participation in the introductory biology course and in grant-writing initiatives are expected.

Fairfield University, the Jesuit University of Southern New England, is located in Fairfield, Connecticut and enjoys a beautiful 200-acre campus in the suburban town of Fairfield within easy access to New York, New Haven and Boston.

Send a letter of application, curriculum vitae, a statement of teaching and research goals (both personal and undergraduate-oriented), selected reprints, and three letters of references to: Search Committee Chair, Biology Department, Fairfield University, Fairfield, CT 06430.

Deadline is November 1, 1995.

FAIRFIELD
UNIVERSITY

Women and minorities are encouraged to apply
Fairfield University is an Affirmative Action/Equal Opportunity Employer

POSITIONS OPEN

FACULTY POSITIONS YALE UNIVERSITY

Department of Molecular Biophysics and Biochemistry

The Department of Molecular Biophysics and Biochemistry seeks applicants for positions at the junior and possibly senior level. Our department, which is located at both the Faculty of Arts and Sciences and the School of Medicine of the University, spans a broad range of areas including biochemistry, biophysical chemistry, structural biology, molecular biology, and molecular genetics. Applications should include a curriculum vitae, a statement of research interests, three letters of reference, and reprints or preprints. Completed applications should be sent to: **Faculty Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, 260 Whitney Avenue, P.O. Box 208114, New Haven, CT 06520-8114. Telephone: 203-432-5593. Application Deadline: December 1, 1995.**

Yale University is an Affirmative Action/Equal Opportunity Employer.

University of California, Irvine, **FACULTY POSITION** in Atmospheric Chemistry. The Department of Chemistry invites applications for a tenure-track position as **ASSISTANT PROFESSOR** in the area of atmospheric chemistry. We are seeking an outstanding Ph.D. who will establish a vigorous research program in areas that will complement existing strong programs in atmospheric chemistry both within the Department of Chemistry as well as in Earth System Science. Typical (but not exclusive) areas include the development of new analytical methods, studies of the fundamental chemistry and photochemistry of organic or inorganic atmospheric systems, or aerosol chemistry. The ability to effectively teach chemistry at the undergraduate and graduate levels is required. Applicants should send their curriculum vitae, a list of publications, and a description of their proposed research program to: **Professor B. J. Finlayson-Pitts, Atmospheric Chemistry Search Committee, Department of Chemistry, University of California, Irvine, CA 92717-2025.** Applicants should also arrange to have three letters of recommendation submitted on their behalf. To ensure full consideration, applications and all supporting materials should be received by December 1, 1995. *The University of California is an Equal Opportunity Employer committed to excellence through diversity.*

ASSISTANT/ASSOCIATE PROFESSOR Immunology/Virology (Two Positions)

Creighton University, School of Medicine, Department of Medical Microbiology and Immunology invites applications for two **TENURE-TRACK POSITIONS** available in spring or summer 1996. Preference will be given to applicants with research interests in Immunology and Virology. The appointees are expected to conduct vigorous independent research and to have an interest and aptitude for teaching graduate students as well as medical, dental and other allied health profession students. Laboratory space and start-up funding will be available. Applicants should send a curriculum vitae, a brief summary of research plans and teaching interests, and the names and addresses of at least three references to: **Roderick Nairn, Ph.D., Professor and Chair, Department of Medical Microbiology and Immunology, Creighton University, 2500 California Plaza, Omaha, NE 68178.** Deadline for receipt of applications is January 31, 1996. *Creighton University is an Affirmative Action/Equal Opportunity Employer.*

ASSOCIATE DIRECTOR PARENTAGE ANALYSIS

Genetic Design, Inc., one of the country's leading human identification companies, provides specialized services for parentage testing utilizing serological and molecular technologies. We are seeking qualified candidates for the position of **ASSOCIATE DIRECTOR** of Parentage Analysis. The individual we seek will be principally involved in interpretation and review of genetic data relating to parentage analysis, presentation of educational seminars, and providing expert witness testimony within the United States. Requirements for the position include a Ph.D. in one of the Life Sciences with coursework in genetics, immunology, and statistics. Excellent communication skills required, both written and oral. Genetic Design, Inc. offers competitive compensation and benefits, including 401(k) with a company match, incentive stock options, employee stock purchase plan, extensive insurance plans, and relocation assistance. Please mail or fax résumé to: **Human Resources Department, Genetic Design, Inc., 7017 Albert Pick Road, Greensboro, NC 27409. FAX: 919-665-3966.** *Genetic Design, Inc. is an Equal Opportunity Employer.*

POSITIONS OPEN

DEVELOPMENTAL GENETICS/BIOLOGY

The Department of Biology at the University of Central Florida invites applicants for a Tenure-Track Faculty position at the **ASSISTANT PROFESSOR** level starting August 1996. We are particularly interested in individuals using genetic and molecular approaches to understanding mechanisms of development in animal systems. A Ph.D. and postdoctoral experience or equivalent are required at the time of application. The successful candidate will be expected to have a productive research program that will gain extramural funding, and to participate in undergraduate and graduate teaching in Genetics and Developmental Biology. Candidates should submit a curriculum vitae, the names and addresses of three references, and statements of research and teaching interests. Screening will begin December 15, 1995. Send material to: **David T. Kuhn, Search Committee Chair, Department of Biology, University of Central Florida, Orlando, FL 32816.** *The University of Central Florida is an Equal Opportunity/Affirmative Action Employer.* As an agency of the State of Florida, all application materials and selection procedures are available for public review.

ENDOWED CHAIR IN ICHTHYOLOGY Search Reopened

The Rosenstiel School of Marine and Atmospheric Science (RSMAS), University of Miami, seeks an ichthyologist to fill the Maytag Chair. Established in 1957, the Chair is a fully endowed position in the broad field of ichthyology. Candidates must have an established reputation in research and an excellent record of publication, so as to meet the standard for appointment at the academic rank of **FULL PROFESSOR**. Candidates from all areas of specialization will be considered. Responsibilities include establishing a strong externally funded research program, directing graduate students, and teaching graduate courses. Southern Florida is a center of recreational fishing, and it is desirable that the interaction of the Chair with the community will continue. Applicants should forward curriculum vitae, a statement of research and teaching interests, and the names of references. Prior applications for the position at its original offering in 1994 remain current, and may be updated as necessary. Send all materials to: **Professor Daniel G. Baden, Chair of the Division of Marine Biology and Fisheries, RSMAS, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-1098,** by December 1, 1995. *The University of Miami is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN NEUROSCIENCE Children's Hospital and Harvard Medical School

The Division of Neuroscience at Children's Hospital is inviting applications from M.D. or Ph.D. scientists for the position of **ASSISTANT PROFESSOR**. The possibility exists for a joint appointment in the Department of Neurobiology at Harvard Medical School. Applicants should have an outstanding research background in any area of developmental, cellular or molecular neurobiology. Send a curriculum vitae, current and future research plans, relevant reprints, and three letters of reference to: **Michael E. Greenberg, Ph.D., Director—Division of Neuroscience, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115.** *Harvard Medical School is an Equal Opportunity/Affirmative Action Employer.* Women and minority candidates are encouraged to apply.

ZOOLOGICAL MUSEUM UNIVERSITY OF COPENHAGEN

Two **CHAIRS** in systematic zoology are vacant from 1 August 1996: 1) Systematics and zoogeography; 2) Invertebrate zoology. Deadline for applications: 4 December 1995. Full text and further information can be obtained from: **The Director, Zoological Museum, Universitetsparken 15, DK-2100 Copenhagen, Denmark. FAX: +45 35 32 10 10; Email: cnielsen@zmuc.ku.dk.**

The University of Chile, Astronomy Department, has an open position for **ASSISTANT/ASSOCIATE PROFESSOR**, tenure-track, beginning January 1, 1996. Candidate must be a young Ph.D., with interest and experience in theoretical astrophysics. Teaching duties include graduate courses in Astronomy and undergraduate courses in Physics. Please send curriculum vitae and two reference letters before October 31, 1995, to: **Departamento de Astronomía, Casilla 36-D, Santiago, Chile. FAX: 562-229-4101. Email: oficina@das.uchile.cl.**

POSITIONS OPEN

UNIVERSITY OF SAN DIEGO Oceanographer

The University of San Diego (USD) Marine and Environmental Studies Program invites applications for a **TENURE-TRACK POSITION** beginning in the fall of 1996. The University is looking for an Oceanographer with training or research experience in the life sciences and with interests in interdisciplinary applications. Teaching responsibilities include a lower division course in marine biology, an upper division general oceanography course for students in Ocean Studies (a major interfacing science and social science), and an upper division or graduate course in an area of expertise; this person will also be expected to contribute occasionally to the graduate core curriculum. USD is an independent Catholic university whose primary aim is teaching excellence. Active scholarship is integral to this aim, and a candidate is expected to establish a research program that can involve undergraduate and graduate (M.S.) students. Applicants should submit a curriculum vitae, a brief statement of teaching philosophy and research interests, and a list of three references by November 3, 1995 to: **Director, Marine and Environmental Studies Program, University of San Diego, 5998 Alcalá Park, San Diego, CA 92110-2492.** Women and minorities are particularly encouraged to apply. *USD is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR DEPARTMENT OF ENTOMOLOGY UNIVERSITY OF MASSACHUSETTS/ AMHERST

Tenure-track faculty position available fall 1996 to conduct research in basic and applied biology of insects of indoor environments. Candidate will develop vigorous, externally funded research program. Research focus should be in molecular biology, sociobiology, or other appropriate areas of study (e.g., population genetics, chemical ecology). Teaching includes instruction in and coordination of new undergraduate program in Urban and Public Health Pest Management. Qualifications include doctorate in Entomology or equivalent, interest in applied problems, and strong commitment to teaching, research, and publication. Application deadline November 15, 1995, but search will remain open until candidate is selected. Send curriculum vitae, up to five reprints, graduate transcripts, and names, addresses, and FAX numbers of at least three references to: **Dr. John D. Edman, Department of Entomology, Fernald Hall, University of Massachusetts, Amherst, MA 01003-2410. Telephone: 413-545-2557; FAX: 413-545-2115; Email: jdedman@ent.umass.edu.**

The University is an Affirmative Action/Equal Opportunity/Americans with Disabilities Act Employer.

Tenure-track **ASSISTANT PROFESSOR** position starting August 21, 1996. Requires Ph.D. in Zoology or Biology. Candidate must have background in mammalogy and marine mammalogy, with emphasis in ecology, systematics, morphology, genetics, or behavior of marine mammals. Primary responsibilities are to teach courses in mammalogy and marine mammalogy, to share teaching assignments in other areas related to candidate's training and experience, to advise undergraduate and graduate students, and to conduct research. Send résumé, three letters of recommendation, and academic transcripts to: **Mammalogy Search Committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521. Telephone: 707-826-4166; FAX: 707-826-3201.** Completed application materials must be postmarked by January 10, 1996. *Equal Opportunity/Affirmative Action Employer. Women, persons with disabilities, and minorities are encouraged to apply.*

Biology Faculty—Lake Forest College. A position as Visiting **ASSISTANT PROFESSOR** is available for the spring semester (January to May 1996) to teach the majors' core course in genetics (lecture and two laboratory sections), supervise independent studies, and continue with research activities. A modern research laboratory and limited research funds are available. Ph.D. degree preferred but an advanced Ph.D. candidate (ABD) may meet our requirements. Please send a letter of application, curriculum vitae, and three letters of reference by November 3, 1995 to: **Dr. David W. Towle, Chairperson, Department of Biology, Lake Forest College, Lake Forest, IL 60045. Email address: towle@lfc.edu.** *Applications from minorities and women are actively encouraged.*



FACULTY POSITION Cell/Molecular Biologist

The University of North Carolina's Lineberger Comprehensive Cancer Center is poised to expand into new facilities, and as a result, is continuing the recruitment of new tenure-track faculty. Candidates with emerging or established records in contemporary molecular and cellular biology will be considered. Areas of interest include cancer genetics, signal transduction, cell cycle control, mechanisms of DNA replication/recombination/repair, and models of tumorigenesis. In addition to being a member of the Cancer Center's core faculty, the successful candidate will also be affiliated with one of the University's basic science departments, as well as with its Program in Molecular Biology and Biotechnology. The choice of department affiliation will be based on the candidate's background and interests. Interested applicants should provide a curriculum vitae and a description of research interests, and have four letters of reference sent to:

Dr. David Lee
Chair, Search Committee
Lineberger Comprehensive Cancer Center
University of North Carolina School of Medicine
Chapel Hill, NC 27599-7295

Review of applications will begin on December 1, 1995.

The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

AMERICAN SOCIETY FOR MICROBIOLOGY AND NATIONAL CENTER FOR INFECTIOUS DISEASES

1996 POSTDOCTORAL RESEARCH ASSOCIATES PROGRAM

Up to ten associate positions will be awarded by the American Society for Microbiology (ASM) for full-time research on infectious diseases which cause significant public health problems. Associates will perform research in residence at the National Center for Infectious Diseases (NCID) which is headquartered at the Centers for Disease Control and Prevention (CDC) in Atlanta, GA. Eligible fields of study include Bacterial and Mycotic Diseases, Viral and Rickettsial Infections, Nosocomial Infections, HIV/AIDS, Vector-borne Infectious Diseases, Sexually Transmitted Diseases, and Parasitic Diseases. Associate positions are limited to individuals who either earned their doctorate degree (Ph.D., Sc.D., M.D., D.V.M., or D.D.S.) or have completed a primary residency after May 1993.

The application deadline is December 1, 1995. For information contact: ASM/NCID Postdoctoral Research Program, 1325 Massachusetts Avenue, N.W., Washington, D.C. 20005
Tel. (202) 942-9299 Fax (202) 942-9329
E-mail: fellowships-careers@asmusa.org

TOWARD NEW HORIZONS

Air Force Materiel Command (AFMC) invites applications from leading scientists and engineers interested in shaping the research and technology program of the Air Force.

SENIOR SCIENTIST, ELECTROMAGNETIC RADIATION EFFECTS ARMSTRONG LABORATORY, HUMAN SYSTEMS CENTER BROOKS AIR FORCE BASE, SAN ANTONIO, TEXAS

The ARMSTRONG LABORATORY provides the Air Force with technologies to select, classify and train Air Force personnel; develop medical standards for selection and retention of aircrews, design protective equipment, life support and aircrew escape systems; specify human factors design for weapon systems to enhance human operator performance and logistics supportability; develop safe human exposure criteria for electromagnetic radiation and toxic chemicals, safeguard the quality of the environment; and remediate chemical pollution. The laboratory brings together in one organization the physical, medical and behavioral science and engineering disciplines and specialized research facilities required to address all aspects of the human role in Air Force operations. The Senior Scientist for Electromagnetic Radiation Effects is the laboratory's lead researcher in analysis or modeling of the biological effects of electromagnetic to satisfy projected user requirements.

QUALIFICATIONS: Candidates must demonstrate scientific experience and achievements at the national and international level, evidenced by citations, patents, publications, honors, leadership activity in their field, including election as a Fellow or comparable recognition, and academic standing--normally a doctoral degree.

Salary range is \$84,578 - \$120,027

APPLICATION INFORMATION: Call the AFMC Senior Civilian Management Office at (513) 257-1094 or DSN 787-1094 for a copy of vacancy announcement ST 95-11 for specific qualification requirements and application procedures. Applications must be postmarked by 15 NOVEMBER 1995.

DEPARTMENT OF THE AIR FORCE
AN EQUAL OPPORTUNITY EMPLOYER

EPRI is recognized as a unique R&D organization. Our mission is to discover, develop, and deliver high value technological advances through networking and partnership with the electric power industry.

Director, Strategic Research and Development

Lead and develop our core science and technology efforts, focusing on important long-term R&D opportunities. Verify that SR&D programs are aligned with EPRI's strategic goals, enhance utility and customer competitiveness, and create new opportunities. You will also maintain excellent relationships with Advisory board members and senior-level members of government organizations, the DOE, and the NSF. You will also provide visible leadership for the SR&D program to attract outside resources.

You must have a technical BS degree (advanced degree preferred), proven success in executive management positions, and the ability to manage complex internal and external relationships. Successful leadership of senior-level technical employees, and communications skills are required.

If you possess the relevant experience knowledge and skills, contact EPRI. We offer a comprehensive benefits package and competitive compensation. Please submit your resume to: EPRI, Human Resources, Dept. 95-110, 3412 Hillview Ave., Palo Alto, CA 94303. FAX: (415) 855-8520. We are an Equal Opportunity Employer. Principals only, please.

EPRI
Electric Power
Research Institute

Leadership in Science and Technology

POSITIONS OPEN

ENVIRONMENTAL MICROBIOLOGY MICROBIAL ECOLOGY

The Department of Microbiology at the University of Tennessee, Knoxville, invites applications for a tenure-track faculty appointment as **ASSISTANT PROFESSOR**. Candidates for the position should have a commitment to applying modern molecular techniques in the analysis of microbial populations and interactions in biogeochemical processes. The University community and the nearby facilities of Industry, Oak Ridge National Laboratory, National Park Service, and the Tennessee Valley Authority offer unique opportunities for collaborative investigations. Preference will be given to applicants with a willingness to become part of this interacting network. The successful applicant must hold a doctoral degree with at least two years of postdoctoral experience in modern molecularly based Environmental Microbiology and Microbial Ecology, demonstrated research productivity, and evidence of potential for excellence in teaching. Responsibilities include graduate and undergraduate teaching in Environmental Microbiology or Microbial Ecology, establishment of a productive, independent research program, and academic responsibilities normally associated with a tenure-track faculty position. The starting date is August 1996.

Applicants should submit a letter of interest accompanied by curriculum vitae, a description of research interests and career objectives, and the names, addresses and telephone numbers of three individuals who can evaluate the applicant's qualifications for the position. All material should be sent to: **Dr. Gary S. Saylor, Chair of Search Committee, Department of Microbiology, The University of Tennessee, Knoxville, TN 37996-0845. Telephone: 423-974-8080** for additional information. Nominations should be made as soon as possible; evaluation of applications will begin in January 1996. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer. Applications from women and minorities are especially invited.*

ANIMAL PHYSIOLOGIST Carleton College

Applications are invited for a one term (one-third academic year, March 15 to June 8, 1996) appointment in the Department of Biology. Teaching responsibilities include a mid-level lecture/laboratory course in animal physiology. Ph.D. preferred—ABD considered. Send application, curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, a summary of research, and three letters of reference to: **Susan Singer, Department of Biology, Carleton College, Northfield, MN 55057-4025**. Review of applications begins November 6, 1995. *Carleton College is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.*

FACULTY POSITION University of Maryland at College Park

The Department of Microbiology invites applications from qualified individuals at any rank to join its faculty. We are searching for imaginative and ambitious individuals, using Virology or Immunology as their research platforms, for an ongoing expansion of the Department. Preference will be given to candidates whose programs would interface with departmental research strengths in cell surface biology. An appointment would include a highly competitive package consisting of generous start-up funds, newly-renovated laboratory space, and access to state-of-the-art core facilities. An outstanding research record and a solid history of generating research support would be prerequisites for an appointment at the senior level. Teaching responsibilities will include participating in our undergraduate program and offering advanced graduate-level courses in one's area of expertise. To apply, send curriculum vitae, copies of three representative papers, and a statement of research interests, and arrange for at least three letters of evaluation to be submitted to: **Dr. Daniel Stein, Chair of the Search Committee, Department of Microbiology, University of Maryland, College Park, MD 20742**. Review of applications will begin on 15 December 1995 and continue until suitable candidates are identified. *The University of Maryland is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



DIRECTOR MOLECULAR BIOLOGY

Neurex Corporation is a rapidly growing biopharmaceutical company in the San Francisco Bay Area. We have an immediate opening for a **DIRECTOR of Molecular Biology** to direct all research activity in Molecular Biology and Electrophysiology. The successful candidate will have experience in ion channels/receptors and protein engineering with expertise in neurological or cardiovascular sciences. A Ph.D. with five to seven years of biotech-related experience including two plus years of management exp. required. Effective leadership skills and excellent technical and communication skills are essential. Send résumé to: **RC-SC, Neurex Corporation, 3760 Haven Avenue, Menlo Park, CA 94025**. *Equal Opportunity Employer.*

DIRECTOR

University of New Mexico Health Sciences Center (UNM HSC), **DIRECTOR of the Cancer Research and Treatment Center (CRTC)**—UNM HSC invites nominations and applications for the above position. The CRTC provides patient care and physician consultation services for hospitals and private practitioners throughout the Southwest. Research programs include major efforts in both cancer epidemiology and molecular mechanisms of normal and malignant cell functions. The Director is responsible for providing the leadership and management of the research, educational, patient care, and service programs of the CRTC and reports directly to Vice President for HSC. For nomination and application information contact: **Search Committee, c/o Jerry White, Box 518 BMSB, Albuquerque, NM 87131-5116. Telephone: 505-277-2423; FAX: 505-277-6581**. Application deadline November 30, 1995. *Affirmative Action/Equal Employment Opportunity.*

DIRECTOR, Clinical Research Center. Experienced clinical researcher sought to direct NIH funded CRC with current interests that include gene therapy, oncology, endocrinology, sleep and movement disorders, and vasculopathy. Academic appointment commensurate with experience. Send curriculum vitae, names of references, and current support by November 15, 1995 to: **James T. Rosenbaum, M.D., Oregon Health Sciences Mail Code CEI, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201**. *An equal opportunity employer.*

POSTDOCTORAL POSITION available fall 1995 to study nerve growth factor signaling. Studies will focus on deciphering the role of protein kinase C isoforms in the NGF signaling pathway using cutting-edge techniques. Requirements include a Ph.D. in biochemistry, cell or molecular biology, or neuroscience. Experience with proteins, tissue culture, and/or nucleic acids is preferred. Ability to work independently as well as interact effectively as part of a group is desired. Effective communication skills are essential. This is a three year position funded by NINDS. Salary of \$25,000 per year plus fringe benefits. Send curriculum vitae, a brief description of research experience/interest, reprints, and the names and telephone numbers of three references to: **Dr. Marie W. Wooten, Auburn University, 331 Funchess Hall, Auburn, AL 36849. Email: mwwooten@ag.auburn.edu**. Deadline: November 17, 1995 or until suitable candidate is found. *Affirmative Action/Equal Opportunity Employer—Minorities and women are encouraged to apply.*

POSTDOCTORAL POSITIONS in Signal Transduction are available to study the structure/function of the prolactin receptor and its roles during the immune response and the pathogenesis of breast cancer. Molecular biology experience is required. Please send a curriculum vitae, a statement of research interests/goals, and three references to: **Dr. Charles Clevenger, Pathology, University of Pennsylvania, BRB 509, 422 Curie Boulevard, Philadelphia, PA 19104. FAX: 215-573-8944; Email: clevenge@mail.med.upenn.edu**. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITION available to investigate the genomic and transactivating factors involved in the restricted expression of the human blk protein tyrosine kinase gene. Experience in recombinant DNA techniques, including mutagenesis, RNase protection, DNA footprinting, and transfection, and in immunology or signal transduction are highly desired. Please send curriculum vitae, names and addresses of three references, and a brief summary of research experience to: **John E. Niederhuber, M.D., Stanford University School of Medicine, Department of Surgery, MSOB Building X300, Stanford, CA 94305-5408. FAX: 415-725-3918**. *Stanford University is an Equal Opportunity/Affirmative Action Employer.*

PALEO-ANTHROPOLOGIST EMORY UNIVERSITY

ASSISTANT PROFESSOR, tenure-track position beginning fall 1996. Applicants must have Ph.D., strong research/training in human paleontology, commitment to teaching and to dialogue among anthropological subfields. Send curriculum vitae, description of research and teaching interests, and names of three referees to: **Dr. Melvin Konner, Emory University, Department of Anthropology, Atlanta, GA 30322**. Applications reviewed December 1, 1995. *Emory University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study the mechanism and nature of interprotein interactions between cytochrome P450 and its redox partners. A molecular biologist/enzymologist is required to generate and characterize mutant proteins regarding their structure and function and protein-protein interactions. Send résumé and three letters of reference to: **L. Waskell, M.D., Ph.D., University of California, San Francisco, VAMC, Anesthesiology (129), 4150 Clement Street, San Francisco, CA 94121**.

POSTDOCTORAL RESEARCH ASSOCIATE

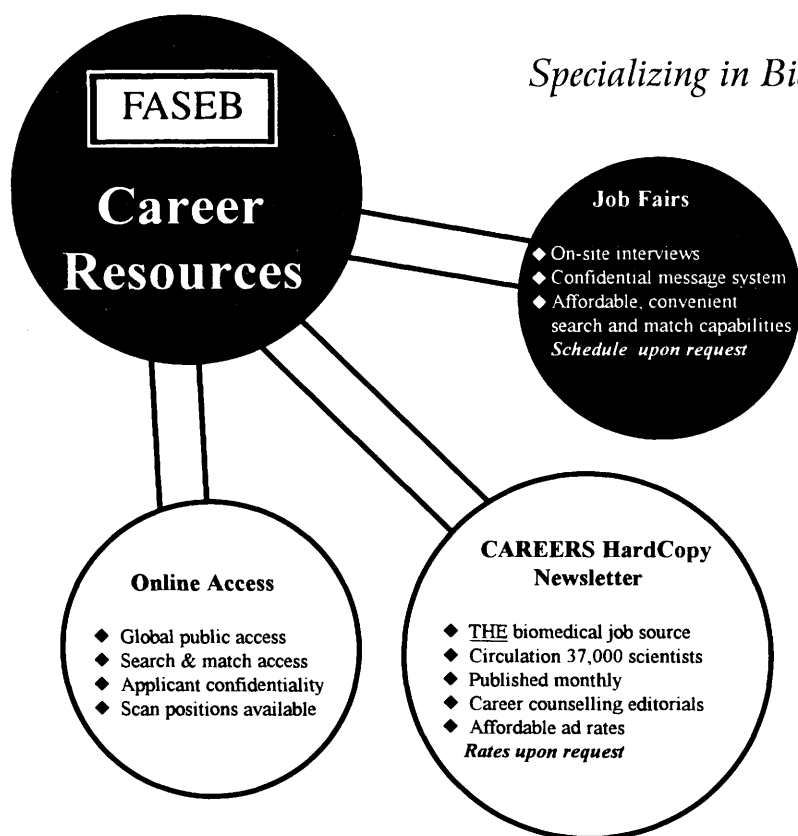
NIH-funded, three year **POSTDOCTORAL POSITION** is available immediately to study the structure-activity relationships of free radicals on cellular toxicity. Strong training in Biochemistry/Molecular Biology essential. Experience with cell culture techniques highly desirable. Salary includes paid vacation, sick leave, and other benefits. Please send curriculum vitae, letter of interest, and names of three references to: **Cynthia D. Selassie, Ph.D., Chemistry Department, Pomona College, 645 North College Avenue, Claremont, CA 91711-6338**.

POSTDOCTORAL POSITION available to study the biochemical pathways and second messenger systems regulating transmitter release, membrane excitability, and sensitization in dorsal root ganglion sensory neurons and spinal cord neurons. Experience with electrophysiological recording techniques using both isolated cells and tissue slices is preferred. Send curriculum vitae, summary of research interests, and names of three references to: **Dr. Michael Vasko, Department of Pharmacology and Toxicology, Indiana University School of Medicine, Indianapolis, IN 46202-5126. FAX: 317-274-1560; Email: vaskom@indyvax.iupui.edu**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available to study functions of tissue-specific and developmentally regulated proteins that bind to DNA sequences (MAR) that anchor chromatin onto nuclear matrix. We seek molecular biologists interested in apoptosis, cell cycle, and/or T cell development. Send research summary, curriculum vitae including three references to: **Dr. Terumi Kohwi-Shigematsu, La Jolla Cancer Research Foundation, 10901 North Torrey Pines Rd., La Jolla, CA 92037. FAX: 619-453-6217**.

SENIOR RESEARCH SPECIALIST

Position available immediately for a Ph.D. in molecular biology or M.S. with considerable experience in molecular biology. Experience in cloning, gene regulation and expression techniques required. Résumé with three references to: **P. Randle, University of Illinois at Chicago, Department of Medicine, Digestive and Liver Diseases, 840 South Wood Street, Chicago, IL 60612-7323**. *Affirmative Action/Equal Employment Opportunity Employer.*



Specializing in Biomedical Career Advancement

.... NEXT JOB FAIR

**Society for Neuroscience Meeting
November 11-16, 1995
San Diego, CA**

.....

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 Tel: 301-530-7020
 Fax: 301-571-0699
 Write: FASEB Career Resources
 9650 Rockville Pike
 Bethesda, MD 20814-3998

**UNIVERSITY OF PENNSYLVANIA
Department of Chemistry**

As part of a continuing development program, the Department of Chemistry at the University of Pennsylvania plans to make three **SENIOR APPOINTMENTS** in the areas of synthetic organic chemistry; bioorganic, biochemistry and/or molecular biology; and materials chemistry. These positions are designed to complement existing strengths in the Department.

The appointments will be available upon completion of additional new chemistry facilities scheduled for the fall 1997. Applicants should send their *curriculum vitae*, list of publications, and a description of proposed research to: **Amos B. Smith, III, Chair, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

**UNIVERSITY OF PENNSYLVANIA
Department of Chemistry**

As part of a continuing development program, the Department of Chemistry at the University of Pennsylvania expects to make an appointment in Biological Chemistry. The appointment will be at the **ASSISTANT PROFESSOR** (tenure probationary) level with the area of research interest in **Theoretical and Computational Structural Biology**. Applicants should send their *curriculum vitae*, list of publications, and a description of proposed research to: **Amos B. Smith, III, Chair, Department of Chemistry, University of Pennsylvania, Philadelphia, PA 19104-6323, by November 1, 1995.** Applicants should also arrange three letters of reference to be sent to the same address. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*



**MAYO CLINIC
MAYO CANCER CENTER**

Staff Scientist in Cancer Research

The NCI-designated Mayo Cancer Center in Rochester, Minnesota, invites applications for several staff scientist positions in cancer research. Investigators with established research programs in areas of cancer biology with clinical/translational applicability are especially encouraged to apply. Areas of particular emphasis in the Mayo Cancer Center include breast and gynecologic malignancies, neuro-oncology (adult and pediatric primary brain tumors), prostate and genito-urinary malignancies, gastrointestinal malignancies, soft tissue sarcomas (including pediatric solid tumors), and hematologic malignancies. The Mayo Clinic provides an outstanding environment for investigators interested in applying modern advances in the cellular and molecular basis of cancer to improved methods in the prevention, diagnosis and treatment of cancer. Interested applicants should submit a statement of research interests, curriculum vitae, bibliography and list of references to:

Nita J. Maihle, Ph.D.
 Associate Director for Basic Research
 Mayo Cancer Center
 Mayo Clinic
 200 First Street SW
 Rochester, MN 55905

Mayo Foundation is an affirmative action and equal opportunity educator and employer.

POSITIONS OPEN

UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER

POSTDOCTORAL POSITIONS available for training in Cellular and Molecular Biology with emphasis on lung epithelium. The multidisciplinary program based in the Institute for Environmental Medicine and funded by the NHLBI offers a two to three year in-depth research experience with the opportunity to develop an independent program. Applicants require Ph.D. or M.D. and U.S. permanent residency. Participating laboratories are: **P. Ballard**, Hormonal regulation of surfactant protein genes; **M. Beers**, Metabolism of hydrophobic surfactant proteins; **S. Feinstein**, Surfactant protein gene expression; **A. Fisher**, Ca²⁺-independent phospholipase A₂ mechanisms of oxidant injury; **H. Ischiropoulos**, Peroxynitrite generation and toxicity; **N. Kefalides**, Organization of extracellular matrix proteins; **J. Sanger**, Function of cytoskeletal proteins; **A. Schreiber**, Expression of macrophage cell membrane receptors; **H. Shuman**, Mechanisms for membrane trafficking and endocytosis; **J. Strauss**, Regulation of cellular lipid metabolism; **U. Zimmerman**, Signal transduction in exocytosis. Interested applicants may request a descriptive brochure and an application form by telephoning 215-898-9100, or by writing to: **Education Officer, Programs in Lung Cell and Molecular Biology, IFEM, 1 John Morgan Building, 3620 Hamilton Walk, Philadelphia, PA 19104-6068**. Qualified women and minority candidates are especially encouraged to apply. Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are immediately available to study intercellular Ca²⁺ signaling between different cell types (epithelial/endothelial-smooth muscle interactions and excitable/non-excitable cell communication: *Mol. Cell. Endocrinol.*, 98:173, 1994). Major techniques to be used include fluorescent digital microscopy and imaging, photochemistry, and electrophysiology. A statement of interests must be included with a curriculum vitae for consideration. Contact: **Dr. Michael J. Sanderson, Physiology, UMMC, 55 Lake Avenue North, Worcester, MA 01655**. Telephone: 508-856-6024; FAX: 508-856-5997. University of Massachusetts Medical Center is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

At University of California San Francisco (UCSF)-San Francisco General Hospital to study mechanisms of intracellular survival of *Mycobacterium tuberculosis* in human macrophages. Requirements include Ph.D. and cell biology experience. Experience in signaling or microbial pathogenesis highly valuable. Position is available immediately. Send curriculum vitae and names of three references to: **Dr. Joel Ernst, UCSF Box 0868, San Francisco, CA 94143-0868**. UCSF is an Equal Opportunity/Affirmative Action Employer.

A position is available immediately for an imaginative and ambitious **POSTDOCTORAL** to work on a project involving AFM and Electron Microscopy of cell junctions, in particular the formation of gap junctions. The successful candidate will have a recent Ph.D. in Molecular/Cell Biology or Physical Sciences and will be interested in developing skills in Microscopy and Cell Biology. The laboratory is well equipped and the environment provides many opportunities for growth. The starting salary is \$24,000 plus benefits. Send curriculum vitae and names of references to: **Prof. Jean-Paul Revel, Division of Biology 156-29, Caltech, Pasadena, CA 91125**. Email: revelj@romeo.caltech.edu; FAX: 818-795-0609. Caltech is an Equal Opportunity/Affirmative Action Employer. Women, minorities, veterans and disabled persons are encouraged to apply.

POSTDOCTORAL POSITIONS IN MOLECULAR AND CELLULAR BIOLOGY

To study the bombesin-like peptides (BLP). Projects include: 1) Cloning and characterization of bombesin-like peptide receptors; 2) Characterization of new mammalian bombesin-like peptides; 3) Characterization of the role of BLP in fetal monkey lung development. Methods include a mix of molecular biology, protein purification and *in vivo* physiologic models. Send curriculum vitae and names of three references to: **Eliot Spindel, M.D., Ph.D., Division of Neuroscience, Oregon Regional Primate Research Center, 505 NW 185th Avenue, Beaverton, OR 97006**. Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Two grant-funded **POSTDOCTORAL RESEARCH ASSOCIATE** positions are available immediately to participate in an epidemiological study of body composition and cardiovascular disease risk factors. The primary focus of the work is to assist in analyzing data collected in the ongoing Fels Longitudinal Study and to collaborate in writing manuscripts describing specific findings from these data. Opportunities exist for participating in the expansion of the scope of the research into new related areas. A doctoral degree in one of the following areas is required: epidemiology, sports medicine, biostatistics, exercise physiology, human biology, nutrition, genetic epidemiology or a related field. Ability to work independently and cooperatively within a team of established investigators is essential. Current research interests within this team center on the role of changes in body composition over the life span in the development of cardiovascular and other age-related diseases, biostatistical methods for serial analyses, genetic epidemiology, and aging. Applicants with statistical and analytical background and compatible research interests are preferred. Positions are open until filled. Review of applicants begins November 1, 1995. Send curriculum vitae, a short statement of research interests, and names of three references to: **Chair, Postdoctoral Search Committee, Division of Human Biology, Department of Community Health, Wright State University School of Medicine, 1005 Xenia Avenue, Yellow Springs, OH 45387-1695**. FAX: 513-767-6922. Equal Opportunity Employer/Affirmative Action.

MAYO CLINIC

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION available immediately to study renal proximal tubule transport of sodium related to hypertension and phosphate related to renal failure. A strong background in renal physiology and/or cell biology of epithelial cell tight junction function or dopamine/serotonin metabolism or prostaglandin metabolism preferred. Send inquiry with summary of experience, availability, and curriculum vitae to: **Dr. Franklyn G. Knox, Head, Nephrology Research Unit, Departments of Medicine and Physiology, Guggenheim 9, Mayo Clinic, Rochester, MN 55905**. FAX: 507-266-4710; Email: knox.franklyn@mayo.edu. Mayo Foundation is an Affirmative Action and Equal Opportunity Educator and Employer.

COMPUTATIONAL BIOLOGY BIOLOGICAL SEQUENCE COMPARISON

POSTDOCTORAL POSITION available immediately to develop more powerful methods for protein and DNA sequence comparison. Approaches include evaluation of sequence comparison methods, multiple alignment algorithms, parallel computation, evolutionary tree construction, and sequence/structure comparisons. Candidates with backgrounds in molecular evolution, biological sequence comparison, computational biology, and other areas of molecular biology are encouraged to apply. Send a curriculum vitae and have letters from two references sent to: **William R. Pearson, Department of Biochemistry, Box 440 Jordan Hall, University of Virginia, Charlottesville, VA 22908**. FAX: 804-924-5069; Email: wrp@virginia.EDU. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study the role of axon sprouting in epileptogenesis. Studies will involve extracellular and whole cell patch clamp recording, single neuron labeling in brain slices, and confocal microscopy. Experience with at least one of these techniques is required. Send curriculum vitae and names of two references to: **Dr. J. Victor Nadler, Department of Pharmacology, Box 3813, Duke University Medical Center, Durham, NC 27710**. FAX: 919-681-8609; Email: nadle002@acpub.duke.edu. Duke University is an Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGY/IMMUNOLOGY

POSTDOCTORAL POSITION. A position is available for studies involving *Toxoplasma gondii* host cell interactions. Multidisciplinary group with interests in attachment, invasion, motility, and immune response of the host to this intracellular parasite. Reply with curriculum vitae and summary of research interests to: **Dr. L. H. Kasper, Dartmouth Medical School, Department of Microbiology, Hanover, NH 03755-3842**. Dartmouth is an Equal Opportunity/Affirmative Action Employer. Women are encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL POSITION

Molecular Cytogenetic Studies of Prostate Cancer

An immediate position is available to characterize specific molecular genetic and molecular cytogenetic alterations important for the initiation and progression of prostate carcinoma. The position is funded for one year with potential for extension into a second year. Potential studies include chromosomal deletion mapping by *in situ* hybridization and loss of heterozygosity analysis, DNA mutation screening and sequencing, and somatic cell genetic experiments. A strong background in molecular genetics and/or molecular cytogenetics is desirable. Applicants should mail or FAX their curriculum vitae and the names and FAX numbers of three qualified references to: **Dr. Robert B. Jenkins, Division of Laboratory Genetics, Mayo Clinic, 200 First Street SW, Rochester, MN 55905**. FAX: 507-284-0043. Applications will be accepted until October 30, 1995.

POSTDOCTORAL POSITION Developmental Neurobiology

Opening for neuroscientist experienced with embryonic organotypic brain slice cultures to investigate early olfactory development. Molecular and electrophysiological approaches will be combined to study olfactory neuronal differentiation, axon outgrowth-guidance (**Q. Gong and M. T. Shipley, J. Comp. Neurol., in press) and target induction (**Q. Gong and M. T. Shipley, Neuron, 1994). Laboratories in new, state-of-the-art research building. Highly competitive salary. Send application, curriculum vitae, statement of research interests, and names of three references to: **Dr. Michael T. Shipley, Professor and Chairman, Department of Anatomy, University of Maryland School of Medicine, Baltimore, MD 21201**. University of Maryland at Baltimore is an Affirmative Action/Equal Employment Opportunity/ADA Employer. Minorities and women encouraged to apply.****

POSTDOCTORAL POSITION available to study bone morphogenetic and related proteins playing key roles in development. Studies utilize *in situ* hybridizations of mouse embryos and adult tissues, functional assays of recombinant proteins expressed in baculovirus, generation and characterization of knockout mice, and standard immunological and molecular biology techniques. Applicant should be a recent Ph.D. with relevant experience. Send curriculum vitae and names of three references to: **Dr. Daniel S. Greenspan, Department of Pathology, University of Wisconsin Medical School, 1300 University Avenue, Madison, WI 53706**.

POSTDOCTORAL SCHOLAR

Position to conduct research on acetylcholine synthesis and packaging using cell culture models. Applicant should have a Ph.D. with experience in molecular biology. Send curriculum vitae and letters of recommendation to: **Dr. Louis Hersch, Department of Biochemistry, MS607 Medical Center, University of Kentucky, Lexington, KY 40536-0084**. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE MOLECULAR GENETICS

Position available immediately for projects concerning the identification and characterization of novel oncogenes and tumor suppressor genes. Stimulating, interactive research environment. Recent Ph.D. with strong background in molecular genetics required. Experience with techniques for the analysis of mammalian genomes, including molecular cloning, preferred. Submit curriculum vitae and names of three references to: **Joseph R. Testa, Ph.D., Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111**. FAX: 215-728-2741. We are an Equal Opportunity Employer.

POSTDOCTORAL SCIENTIST

POSTDOCTORAL POSITION available immediately for a NIH-funded study of molecular determinants involved in mucosal transmission of simian immunodeficiency virus. Recent Ph.D. with experience in retroviruses and molecular biology is sought. Send curriculum vitae and names of three references to: **Francis J. Novembre, Ph.D., Yerkes Regional Primate Research Center, Emory University, 954 North Gatewood Road, Atlanta, GA 30322**. Reference vacancy number 659-418. Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

NeXstar Pharmaceuticals, Inc. is a Boulder, Colorado based biotechnology company involved in discovery and development of oligonucleotide and liposome-based therapeutic agents and the manufacture of liposomal drug formulations for the treatment of major disease. NeXstar was formed from the recent merger of NeXagen, Inc., of Boulder and Vestar, Inc. of San Dimas, California. NeXstar is a fully integrated pharmaceutical firm with product sales of over \$45 million, a proven clinical and product development capability, and a fundamental and patent protected drug discovery technology. We currently have several career opportunities in the San Dimas facility.

RESEARCH SCIENTIST/SR. RESEARCH SCIENTIST

Ph.D. in Chemistry, Pharmaceutical Chemistry or related discipline with 3-8 years experience in lipid and/or polymer chemistry. Will work on the design and synthesis of novel drug delivery systems for use in oligonucleotide and targeted therapeutics. Experience in oligonucleotide or combinatorial chemistry would be advantageous.

POST DOCTORAL SCIENTISTS

Ph.D. in Molecular Biology or related field with at least 4 years of research experience in virology and immunology. Familiarity with "in vitro" and "in vivo" viral infection models are required. Knowledge of drug delivery beneficial. Must have excellent verbal and written communication skills.

Ph.D. in Biochemistry or related field. Strong physical or biophysical chemistry background is a plus. Experience with molecular biology techniques such as plasmid preparation and purification and cloning is preferred. Familiarity with methods of liposome preparation is also beneficial. Experience with DNA transfection of cells using non-viral vectors is also required.

RESEARCH ASSOCIATES

B.S. in Chemistry or related field with 0-3 years experience in synthetic organic chemistry. Will assist Ph.D. level scientists in laboratory syntheses of novel compounds to be investigated as therapeutic agents or delivery vehicles.

B.S. in Chemistry, Pharmacy, Pharmaceutical Chemistry or related field with 0-2 years experience. Will assist formulation chemists in the design and evaluation of novel drug delivery vehicles. Background in physical chemistry and spectroscopy is advantageous.

NeXstar offers a competitive salary and benefits package. Interested candidates may submit their resume and cover letter to Human Resources as follows:

NeXstar Pharmaceuticals, Inc.
650 Cliffside Drive
San Dimas, CA 91773

NEXSTAR
Pharmaceuticals, Inc.

NeXstar is an Equal Opportunity Employer

As an integral part of a \$26.8 billion global leader, **Bayer Corporation, Pharmaceutical Division** has the financial strength and resources it takes to pursue innovative drug treatment methods. Our worldwide presence and highly dedicated team of professionals are what make our progress possible. We are seeking a qualified individual for the following position:

Sr. Research Scientist

This position will be responsible for investigating novel targets for drug development in osteoporosis. Utilization of cell and organ culture models to answer proof of principle questions for targets is essential. A strong knowledge of biochemical techniques of cell fractionation, protein purification, immunoprecipitation, etc. is essential. The individual will interact with molecular biologists and in vivo pharmacologists to establish new in vitro and ex vivo assay systems for evaluation of drug candidates. Experience in the development of high volume screening assays and bone biology experience is an advantage.

We offer an attractive salary and generous benefits. For immediate consideration, please send resume to: **Bayer Corporation, Pharmaceutical Division, Dept. AA-DB, 400 Morgan Lane, West Haven, CT 06516.** An Equal Opportunity Employer M/F/D/V.

Bayer 
Pharmaceutical Division

DIRECTOR OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

BioSource International is a leading manufacturer of immunological reagents and test kits for the international medical research marketplace. This dynamic, publicly held company is seeking an innovative scientific professional to lead the research and development efforts of our molecular biology group.

The successful candidate will have a Ph.D. in molecular biology or biochemistry and 5+ years of hands-on experience in gene cloning, sequencing, and expression, as well as protein biochemistry, including purification and folding of immunological proteins. A working knowledge of immunology and cell biology relating to *in vitro* bioassays of biologically active proteins also desirable.

This professional should possess strong management and interpersonal skills honed in a highly productive industry setting. This leader must also have the demonstrated ability to skillfully lead a team of scientists in the development, scale-up and production of biologically active proteins.

BioSource International Inc. is a biotechnology company located near the beautiful Central Coast of California. The company offers a competitive salary, excellent medical, dental and life insurance programs, generous stock option and stock purchase plans, a 401(k) pension plan, and a team-oriented working environment focused on producing excellent products for our customers. Qualified candidates only should mail or fax resumes to: **BioSource International, Human Resources Dept., 820 Flynn Road, Camarillo, CA 93012, FAX 805/388-8295. EOE.**



POSITIONS OPEN

POSTDOCTORAL POSITIONS in Advanced Chemical Detection Technologies Sandia National Laboratories, California

Sandia National Laboratories (SNL) is seeking **POSTDOCTORAL** candidates to develop advanced chemical detection technologies. We request applications from innovative individuals who wish to join an interdisciplinary team of chemists, biochemists and engineers to conduct research and development directed toward improving methods for chemical analysis. Research areas of interest include laser spectroscopy, mass spectrometry, capillary electrophoresis, high performance liquid chromatography, immunochromatography, biosensors, microelectronic sensors, and microfabrication. Successful applicants will participate in activities that include basic research, technology development and applications in environmental restoration and monitoring, biotechnology and defense. Candidates should have a Ph.D. and have demonstrated research experience in one or more of the research areas described above. Salaries and benefits are competitive. Please send a curriculum vitae, list of publications and names of professional references to:

Sandia National Laboratories
A. M. Isham, Employee/Recruiting
Department 8522-S68
P.O. Box 969
Livermore, CA 94551-0969

U.S. Citizenship Required. SNL is an Equal Opportunity Employer. Minority/Female/Veteran/Disabled.

POSTDOCTORAL POSITION BIOCHEMISTRY/MOLECULAR BIOLOGY

A position is available to study the *in vitro* DNA binding properties of pathogenic anti-DNA autoantibodies isolated from lupus patients. Applicants must possess expertise in molecular biology and biochemistry including cloning, expression, and purification of recombinant proteins. This position is available for up to three years. Interested individuals should submit a curriculum vitae and names of three references to: **Dr. Gary D. Glick, University of Michigan, Department of Chemistry, 930 North University Avenue, Ann Arbor, MI 48109-1055.**

POSTDOCTORAL POSITION available immediately for studying neuron-glial interactions in brain slices from knockout mice deficient in ion channels, glial filaments, and glutamate transporters. Applicants must have expertise in patch-clamp and/or calcium imaging studies on brain slices. Contact: **S. Y. Chiu, Telephone: 608-262-6994 or Albee Messing, Telephone: 608-263-9191.** Send curriculum vitae to: **S. Y. Chiu, University of Wisconsin, Department of Neurophysiology, 285 Medical Sciences Building, 1300 University Avenue, Madison, WI 53706-1532.**

POSTDOCTORAL POSITION available immediately to work on study of mucosal and passive immunity as related to enhancement of the immunogenicity of enteric viral vaccines and recombinant proteins in a calf or pig challenge model. Experience in immunology is required with training in molecular virology desirable. Send curriculum vitae and three letters of recommendation to: **Dr. Linda Saif, Food Animal Health Research Program, Ohio Agricultural Research and Development Center, The Ohio State University, 1680 Madison Avenue, Wooster, OH 44691.**

POSTDOCTORAL POSITION in Retinal Transplantation available January 1, 1996 to study the efficacy of retinal transplantation in an experimental setting. Candidates require expertise in retinal histology and physiology, and computer proficiency. This is a one year position with an option for extension. Competitive salary level. Open to U.S. citizens or permanent residents. Send curriculum vitae and three reference letters to: **Manuel del Cerro, M.D., P.O. Box 603, University of Rochester School of Medicine, Rochester, NY 14642.**

POSTDOCTORAL POSITION to study opiate receptors, signaling mechanisms, and immunomodulation. Molecular expertise including PCR, DNA sequencing, vector construction, and *in situ* hybridization is essential. Due to funding limitations, only U.S. citizens and permanent residents are eligible. Send curriculum vitae and four reference letters to: **Burt Sharp, M.D., MMRE, 914 South 8th Street, Minneapolis, MN 55404. FAX: 612-347-3915. Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOW Department of Anatomy The University of British Columbia

Position available immediately to investigate the modulation of intracellular pH regulating mechanisms and the relationship between intracellular pH and calcium in mammalian central neurons. Strong background in the field of intracellular pH regulation and experience in ratio-imaging techniques preferred. Appointment initially for one year and, subject to renewal, for maximum of three years. Salary commensurate with qualifications and experience. Please forward letter of application, curriculum vitae, and the names and addresses of three referees to: **John Church, Department of Anatomy, University of British Columbia, 2177 Wesbrook Mall, Vancouver, B.C. V6T 1Z3 Canada.** The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities.

UNIVERSITY OF MICHIGAN COMPREHENSIVE CANCER CENTER MICHIGAN PROSTATE INSTITUTE

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS are available immediately as part of a multidisciplinary program in prostate research. Major areas of interest include identification/analysis of genes important in prostate neoplasia. Candidates should have a Ph.D. and/or M.D. with experience in molecular and cellular biology. Send curriculum vitae with cover letter and names and telephone numbers of three references to: **Marty Davis-Merritts, University of Michigan Medical School, 5510 MSRB-I, 1150 West Medical Center Drive, Ann Arbor, MI 48109-0680.**

RESEARCH TRAINING CARDIOVASCULAR SCIENCE

POSTDOCTORAL POSITIONS funded by NIH are available to study the cellular and molecular mechanisms involved in the regulation of the cardiovascular system. This is a multidisciplinary training program involving scientists with research expertise in biochemistry, pharmacology, physiology, microbiology, molecular biology, and medicine. Research topics include neural mechanisms, vascular biology, signal transduction, metabolism, and protein regulation. The successful candidates may receive training in cardiology and pulmonary research or in basic biomedical research with scientists who are using the latest technology to explore the mechanisms of cardiovascular disease. Qualified Ph.D. or M.D. candidates should send a letter of interest and curriculum vitae to: **Dr. Vernon S. Bishop, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7756.**

Award of the annual stipend is limited to U.S. citizens and permanent residents. The University of Texas Health Science Center at San Antonio is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

The Department of Surgery at Southern Illinois University School of Medicine (SIUSM) has a full-time position at the level of **RESEARCH ASSOCIATE**. This position will involve administration of all aspects of related research focusing on solid tumor metastases.

Qualified candidates must have a Ph.D. in a tumor biology related field, and experience in developing independent research and in molecular biology. Additional desirable qualifications include experience in metastases and/or angiogenesis. Applications will be accepted through October 27, 1995, for start date in December or January. Send curriculum vitae to: **Mokenge Malafa, M.D., Assistant Professor, SIUSM, Department of Surgery 1312, P. O. Box 19230, Springfield, IL 62794-1312.**

Southern Illinois University School of Medicine is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE-SHIP available for a Ph.D. or equivalent with experience in molecular immunology (flow cytometry, quantitative PCR, cytokines, etc.) to study human NK cells (NIH funded). Send curriculum vitae, reprints, and three reference letters to: **Dr. R. Krishnaraj, University of Illinois at Chicago, Department of Medicine (M/C 787), 840 South Wood Street, Chicago, IL 60612. FAX: 312-413-2693. Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

PLANT BIOLOGY-PENN STATE

POSTDOCTORAL FELLOWSHIPS to develop cross-disciplinary research on biochemical, molecular, or physiological mechanisms of Plant Responses to the Environment, and/or in their ecological, population, or evolutionary consequences. Postdocs will be expected to develop collaborative projects involving two or more of 24 participating faculty and more than one level of organization (i.e., biochemical/molecular, physiological, ecological). Must be U.S. citizens or permanent residents, have a Ph.D. and no more than five years of postdoctoral experience. Send curriculum vitae, three letters of reference, and a letter describing research interests to: **Jack C. Schultz, Pesticide Research Lab (Email: UJQ@PSUVM.PSU.EDU; Telephone: 814-863-4438) or Eva J. Pell, 321 Buckhout Laboratory, Penn State University, University Park, PA 16802. (Email: EJP@PSU.EDU; Telephone: 814-865-0323).**

An Affirmative Action/Equal Opportunity Employer. Women and Minorities Encouraged to Apply.

NIH-funded **RESEARCH ASSOCIATE** and **POSTDOCTORAL FELLOWSHIP POSITIONS:** Will work with Principal Investigator at the Stanford University Sleep Research Center, Center for Narcolepsy, Department of Psychiatry and Behavioral Sciences. Will be part of a team project aimed at the positional cloning of a gene involved in the sleep disorder narcolepsy (a linkage marker has already been identified). One individual will work primarily using an autosomal recessive canine model of the disorder while the other person will work primarily in humans. The project will involve multipoint linkage studies, building contigs in the genomic region of interest, studying canine-human synteny and pulling/studying candidate genes using exon trapping/direct selection. Work will be performed using cloned material and samples from canine and human patients (sporadic cases and multiplex families).

Ph.D. in the area of molecular genetics and previous experience in positional cloning projects and/or in the techniques needed for this project (cosmid/phage/YAC and related cloning techniques, FISH, direct selection, exon trapping, RT-PCR, etc.) is required. Submit curriculum vitae to: **Dr. Emmanuel Mignot, 701 Welch Road, Suite 2226, Palo Alto, CA 94304 by October 31, 1995.**

Stanford University is committed to increasing representation of women and members of minority groups on its faculty/staff and particularly encourages applications from such candidates.

POSTDOCTORAL RESEARCH SCIENTIST

Position available to work in clinical laboratory studying human motor physiology and the quantitative assessment of movement disorders. Applicant must have Ph.D. in biomedical engineering or equivalent; expertise in signal processing, biologic data acquisition techniques, electronics and programming. Experience in single unit neuronal recording and expert systems is preferred. Send curriculum vitae and three letters of reference to: **Dr. Seth Pullman, Director, Clinical Motor Physiology Laboratory, The Neurological Institute, Columbia-Presbyterian Medical Center, 710 West 168th Street, New York, NY 10032. We are an Equal Opportunity/Affirmative Action Employer.**

A limited number of **POSTDOCTORAL FELLOWSHIPS** are available in 1996 in marine sciences, aquaculture, biomedical marine research, ocean engineering, and environmental analysis and monitoring. Application deadline 31 January 1996. Stipends: \$22,540 for the annual appointment; fellows eligible for group health coverage. Specify area of interest with request for information brochure and application packet from: **Johnson Marine Education Center, Harbor Branch Oceanographic Institution, Inc., 5600 U.S.1, North, Fort Pierce, FL 34946. Equal Employment Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately to study structure, function, and regulation of voltage-gated ion channels, using electrophysiological and recombinant DNA methods. Patch-clamp experience is essential. Send curriculum vitae and names and addresses of three references to: **Dr. Glenn E. Kirsch, Rammelkamp Center for Research R327, MetroHealth Medical Center, 2500 MetroHealth Drive, Cleveland, OH 44109-1998. FAX: 216-778-8282; Email: gkirsch@mhnet.mhmc.org.**



College of Medicine

Head of Medical Biochemistry and Genetics

The Texas A&M University Health Science Center, College of Medicine, invites applications and nominations for an outstanding individual to head the Department of Medical Biochemistry and Genetics. The successful candidate will have a well-established and vigorous research program in an area of biochemistry, molecular genetics, or related field, a strong record of research accomplishments, and a demonstrated commitment to teaching. Minority and women candidates are strongly encouraged to apply. Information about the department, college, and university can be obtained on the Internet by accessing the <http://thunder.tamu.edu/home> page.

Review of candidates will begin November 1, 1995 and will continue until an appointment is made. Applicants should submit a complete curriculum vitae that includes a summary of research and teaching experience and the names of three references. Applications and nominations should be sent to Dr. Arthur E. Johnson, Search Committee Chair, College of Medicine, Texas A&M University Health Science Center, 116 Reynolds Medical Building, College Station, TX 77843-1114.

Texas A&M University is an Equal Opportunity Affirmative Action employer.



PRE-DOCTORAL AND POST-DOCTORAL TRAINING PROGRAMS

RESEARCH PROGRAMS

Genome Organization
Developmental Biology
Metabolic Diseases
Neurogenetics
Genetics of Complex Traits
Cancer Genetics
Immunology/Hematology
Bioinformatics

The Jackson Laboratory: a unique research environment with unparalleled mouse resources.

Letters of inquiry should include: curriculum vitae, statement of research interests, list of publications, and names of three references. (Predoctoral programs are in conjunction with the University of Maine and Yale University.)

To apply or request further information, contact: **Pre/Postdoc Recruitment, Box 361, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609** Phone: 207-288-6419; FAX: 207-288-8254 *EE/AA Employer*

Junior and Senior Faculty Positions in Biochemistry

THE DEPARTMENT OF CHEMISTRY & BIOCHEMISTRY of the University of Maryland at College Park seeks to fill two positions, one at the Assistant Professor (Tenure Track) level, and one at a Senior level. The Senior position will be in the Division of Biochemistry, which is in the process of growing substantially from its current faculty; most of whom are young with active programs in enzymology, DNA recombination, catalytic RNA, antimicrobial peptides, DNA-protein interactions, atomic force microscopy, and membrane function. Candidates should be in an area that broadens this range of programs, and have an exceptional record of research accomplishment as well as being at a stage of expanding productivity. Although a senior candidate is preferred, junior candidates will also be considered.

The Asst. Prof. position will be joint with the CENTER FOR AGRICULTURAL BIOTECHNOLOGY (CAB), with laboratory space, tenure, and teaching duties in Biochemistry. CAB is a component of the U of MD Biotechnology Institute and is a multidisciplinary research center emphasizing plant-microbe interactions, insect molecular genetics, vaccine development, protein modification, and biochemical engineering. It will soon occupy a newly constructed and equipped research building on the U of MD College Park campus. Candidates for this joint position should be in an area that is clearly compatible with contemporary biotechnology, with interests in protein structure and/or function being particularly desirable. They must also demonstrate exceptional promise of being able to establish and maintain a funded research program. Candidates for both positions should expect to attract graduate students from the Molecular and Cellular Biology program as well as the Biochemistry program. To apply, send resume (including a description of research plans) and arrange for 3 letters of reference to be sent to: Prof. J. Norman Hansen, Chair; Biochemistry Search Committee, Dept. Chem & Biochem, UMCP, College Park, MD 20742. For best consideration, application should be complete by December 1, 1995. *The University of Maryland at College Park is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*



CAREERS IN DRUG DISCOVERY RESEARCH

Northwestern University Medical School Dept. of Molecular Pharmacology and Biological Chemistry

An interdisciplinary program in drug discovery that is based on structure and mechanism with a focus on selected diseases has been established recently at Northwestern University. Training and positions are available at the graduate, post-doctoral and faculty levels. Resources include X-ray crystallography, combinatorial chemistry, genetically engineered animal models, protein and nucleic acid chemistry, spectroscopy and analytical facilities, and shared resources at the Advanced Photon Source at Argonne National Labs. Interested individuals should consult the Web page (<http://www.pharm.nwu.edu/>) and contact the appropriate individual.

Affirmative Action/Equal Opportunity Educator and Employer



BROWN UNIVERSITY MOLECULAR PHARMACOLOGIST

A position is open at the rank of Assistant Professor (tenure-track) or Associate Professor (tenured) for an innovative individual with research interests in the structure-function relationships of drug targets such as cell surface receptors, ion channels, enzymes, or other signal transduction elements. Individuals with particular expertise in the application of heteronuclear NMR methodologies for macromolecular structure-function analysis and the use of molecular biological techniques are encouraged to apply. Applicants should have at least two years of postdoctoral training and the potential or demonstrated ability to develop an independent, externally funded research program. General teaching responsibilities include pharmacology instruction for medical students, as well as participation in undergraduate and graduate education. Opportunities exist for interactions with a wide range of excellent faculty throughout the University. The appointment will begin on or after July 1, 1996. Applications received by November 30, 1995 will receive full consideration. Applicants should submit a resume including research and teaching experience, future research plans, and a list of publications; enclose representative reprints; have three letters of reference (five for Associate) sent to Dr. Edward Hawrot, Department of Molecular Pharmacology and Biotechnology, Box G-B487, Division of Biology and Medicine, Brown University, Providence, RI 02912.

We encourage women and minority candidates.

Brown University is an equal opportunity/affirmative action employer

POSITIONS OPEN

UNIVERSITY OF WASHINGTON Postdoctoral Fellowships in Genome Analysis

Available immediately to conduct research on the technological, computational and biological problems posed by large-scale genome analysis. Research opportunities are available in large-scale physical mapping, genetic mapping, DNA sequencing, cytogenetics, protein analysis, CDNA analysis, polymorphism analysis, instrumentation development, computational biology, biomedical ethics and informatics. Emphasis of NIH-funded training program is on interdisciplinary research, encompassing engineering, chemistry, computer science, mathematics, physics, molecular biology, and genetics. Individuals with a Ph.D. in these or other disciplines are encouraged to apply. *U.S. citizens or permanent U.S. residents only.* For information, a listing of training faculty and their research interests, and application packet, contact: **Dr. Barbara Trask, Department of Molecular Biotechnology, University of Washington, Box 357730, Seattle, WA 98195.** Telephone: 206-685-7347; FAX: 206-685-7354; Email: trask@biotech.washington.edu. *The University of Washington is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL FELLOWS—PENN STATE. Applications are being accepted for positions on a NIH training grant in Endocrinology, Diabetes, and Metabolism at The Pennsylvania State University College of Medicine, M.D. or Ph.D. candidates will be trained for an academic research career by faculty members working in the areas of diabetes, reproductive endocrinology, and endocrine/oncology. Qualifications include *U.S. citizenship or permanent resident status*, strong academic background including research experience in molecular biology, and plans for a career in academic research. Application deadline is December 31, 1995. The salary is commensurate with NIH stipend guidelines. For a detailed descriptive brochure, write to: **Dr. Leonard S. Jefferson, The Pennsylvania State University College of Medicine, Department of Cellular and Molecular Physiology, P.O. Box 850, Hershey, PA 17033.** *We are an Equal Opportunity/Affirmative Action Employer and encourage minority and female applicants to apply.*

MBL MED BIOTECH LABORATORIES KAMPALA, UGANDA

Three **RESEARCH ASSOCIATE POSITIONS** in Molecular Parasitology are available to clone and characterize lipid modification enzymes of *Onchocerca volvulus* as possible targets of drug development, and to identify and clone genetic markers of ivermectin resistance in parasitic nematodes. Two positions require two to three years of experience in the techniques of screening gene libraries, cloning and expression in bacteria and other expression systems, DNA sequencing, PCR, RNA, PCR finger printing heteroduplex analysis, and RFLPs. One position will require training in biochemistry with experience in enzymology. Send résumé and the names of three references to: **Dr. Thomas G. Egwang, MBL, P.O. Box 9364, Kampala, Uganda.** FAX: 256-41-268251.

Hollaender **POSTDOCTORAL FELLOWSHIPS** available to conduct energy-related research in the life, biomedical, and environmental sciences, including global change and human genome research. Fellowships are tenable at Department of Energy, university, or private laboratories with programs sponsored by the Office of Health and Environmental Research. Stipend is \$37,500. A doctoral degree received after April 30, 1994, is required as is *U.S. citizenship or PRA status*. Application form is required. Deadline is January 15, 1996. Contact: **Hollaender Postdoctoral Fellowships, Science/Engineering Education Division, Oak Ridge Institute for Science and Education, P.O. Box 117, Oak Ridge, TN 37831-0117.** Telephone: 615-576-9975.

GRADUATE FELLOWSHIPS Biochemistry and Molecular Biology

The program leading to a Ph.D. includes a range of research options with an emphasis on structure and function of membrane proteins and yeast molecular biology and genetics. Competitive stipends and full tuition waiver provided. Application deadline is February 15, 1996. Contact: **Chair, Graduate Program, Department of Biochemistry and Molecular Biology, SUNY Health Science Center Syracuse, 750 East Adams Street, Syracuse, NY 13210.** Telephone: 315-464-5127.

POSITIONS OPEN

HARVARD UNIVERSITY Bullard Fellowships in Forest Research

Each year Harvard University awards a limited number of Bullard **FELLOWSHIPS** to individuals in biological, social, physical, and political sciences to promote advanced study, research, or integration of subjects pertaining to forested ecosystems. The fellowships, which include stipends up to \$30,000, are intended to provide individuals in mid-career with an opportunity to utilize the resources and to interact with personnel in any department within Harvard University in order to develop their own scientific and professional growth. In recent years Bullard Fellows have been associated with the Harvard Forest, Department of Organismic and Evolutionary Biology and Kennedy School of Government, and have worked in areas of ecology, forest management, policy, and conservation. Fellowships are available for periods ranging from four months to one year and can begin at any time in the year. Fellowships are not intended for graduate students or recent postdoctoral candidates. Further information may be obtained from: **Committee on the Charles Bullard Fund for Forest Research, Harvard University, Harvard Forest, Petersham, MA 01366 USA.** Annual deadline for applications is February 1. *Applications from international scientists, women, and minorities are encouraged.*

POSTDOCTORAL AND GRADUATE FELLOWSHIPS Calcium Signaling and Gravity Perception in Plants

Six **POSTDOCTORAL** and six **GRADUATE RESEARCH FELLOWSHIPS** are available starting January 1, 1996 for a newly initiated NASA Specialized Center of Research and Training (NSCORT) in gravitational biology. This program is a consortium of faculty from the North Carolina State University Colleges of Agriculture and Life Sciences and Forestry, the Kennedy Space Center, Wake Forest University, and Baruch College. Trainees will use transgenic and pharmacological methods to alter calcium homeostasis in plants. State of the art techniques in video imaging, electrophysiology, biochemistry, and physiology will be used to study gravity-stimulated signal transduction. Send curriculum vitae and names of three references to: **Eric Davies, Director NCSU-NSCORT, Department of Botany, North Carolina State University, Raleigh, NC 27695-7612.** Email: NSCORT@NCSTATE.EDU. *NCSU is an Equal Opportunity Employer.*

GRADUATE, POSTDOCTORAL, SABBATICAL TRAINING OPPORTUNITIES IN BIOLOGY OF TRANSGENIC PLANTS

DOE/NSF/USDA-sponsored fellowships at North Carolina State University (NCSU) and CIBA GEIGY Agricultural Biotechnology Research Unit are available to study (1) use of transgenic technologies to enhance disease resistance in important crop species and (2) epigenetic phenomena influencing transgene expression and inheritance. Further information and application materials may be obtained from: **Nicole Burdick, Department of Botany, Box 7612, NCSU, Raleigh, NC 27695-7612.** Telephone: 919-515-2727; FAX: 919-515-3436; Email: nicole_burdick@ncsu.edu. Inquiries from established industrial or academic scientists interested in three-month sabbaticals are also encouraged. Review of applications will begin December 1, 1995. *NCSU is an Equal Opportunity Employer.*

MECHANISMS OF NEURAL DISEASE: GRADUATE AND FELLOWSHIP TRAINING

Opportunities for research training at the graduate and postgraduate level in an NIH-sponsored training program, "Molecular Mechanisms of Neurological Diseases" are available at the Cornell University Graduate School of Medical Science. Applicants may contact **John A. Wagner**, the director of the graduate program and the training grant, or any of the participating faculty for additional information about specific opportunities. Participating faculty include **Drs. Michael Caudy, Moses Chao, Robert Duvoisin, Henry Furneaux, Sam Gandy, Gary Gibson, Steve Goldman, Bernice Grafstein, Charles Inturrisi, Tong Joh, Peter MacLeish, Teresa Milner, Gavril Pasternak, Virginia Pickel, Fred Plum, Jerome Posner, and Donald Reis.** Cornell University Graduate School of Medical Science, 1300 York Avenue, New York, NY 10021. *An Affirmative Action, Equal Opportunity Employer.*

POSITIONS OPEN



BIOORGANIC CHEMIST

Ambion, Inc. develops innovative products and kits for molecular biology research. We are seeking **SENIOR SCIENTISTS** for Research and Development to work on the development of new products at the interface of chemistry and molecular biology. Candidates should have a Ph.D. in Chemistry, molecular biology experience, a strong publication record, and an entrepreneurial spirit. Ambion is in Austin, location of the University of Texas and the state capital, on the edge of the Texas hill country with nearby lakes and rivers that provide abundant recreational opportunities.

Ambion offers competitive salaries, benefits, and employee stock option plan. Reply to:

**Ambion, Inc., 2130 Woodward Street
Austin, TX 78744**

Equal Opportunity Employer

GRADUATE STUDENT FELLOWSHIPS IGPP/UCLA

The Institute of Geophysics and Planetary Physics (IGPP) at UCLA invites applications for **GRADUATE FELLOWSHIPS** for 1996–1997, two to be awarded in each of three centers of excellence: Center for the Physics and Chemistry of the Planets; Center for Earth System Research; and the Space Science Center.

In addition to support provided fellows by UCLA Departments, IGPP will grant each fellow a stipend of \$5,000 for the first year of graduate study, with no teaching or other duties. Stipends may be used for any purpose the fellow deems appropriate: travel, books, computers, etc. Fellows are included in a select group of graduate students invited to interact with IGPP faculty in weekly seminars and luncheons.

Applicants should plan to carry out doctoral research under the direction of an IGPP faculty member. Faculty are members of the UCLA Departments of Earth and Space Sciences, Chemistry and Biochemistry, Atmospheric Sciences, Physics and Astronomy, Mathematics, and the Molecular Biology Institute.

Fellowship applicants must apply by 15 January 1996 to IGPP. Applicants must also apply to an appropriate academic department for admission to UCLA.

For application forms and a list of IGPP members, contact: **IGPP Fellows Committee, 3845 Slichter Hall, UCLA, Los Angeles, CA 90095-1567.**

For further information please telephone **310-825-1580.**

UCLA is an Equal Opportunity Affirmative Action Employer.

SENIOR RESEARCH ASSOCIATE

The City of Hope invites applications for a position to manage a transgenic mouse facility for research programs at the NCI-Designated City of Hope Cancer Center and Beckman Research Institute. The facility is associated with a research laboratory with substantial experience in the techniques. Work involves (1) microinjection of fertilized ova with DNA, injection of blastocysts with embryonic stem cells, surgical techniques of ova transfer, and (2) culture of embryonic stem cells, involving routine maintenance, transfection with DNA, and picking and freezing of recombinant clones. Significant previous experience in (1) is essential, a Ph.D. is not essential. This position will be working in **Dr. Jeff Mann's** lab, Division of Biology, Beckman Research Institute of the City of Hope. Submit application, with curriculum vitae and three addresses for letters of reference, to: **City of Hope, Human Resources, Attn: JM, 1600 East Duarte Road, Duarte, CA 91010-3000.** FAX: 818-301-8448; Email: jyasmineh@smtplink.coh.org. *Equal Opportunity Employer.*

Two **POSTDOCTORAL RESEARCH FELLOWSHIPS:** Studies on identification, cloning, expression, and signal transduction mechanisms of novel regulatory proteins for osteoblasts. Experience in cell culture, protein purification, enzyme kinetics, basic biochemistry, molecular biology techniques, cytokine immunoassays, and signal transduction mechanisms are desirable. Ph.D. is required for both positions, and both will involve interactions with a large, multidisciplinary laboratory of Ph.D.s and M.D.s. Salary and benefits are competitive. Apply to: **D. J. Baylink, M.D., Pettis VA Medical Center 151, 11201 Benton Street, Loma Linda, CA 92357.**

Post Doctoral Fellowships

Immunex Corporation

Immunex Corporation is a Seattle-based biopharmaceutical company focused on the discovery, development, manufacture, and marketing of products to treat cancer, infectious disease and autoimmune disorders, and is a world leader in cytokine research.

Immunex currently has several Post Doctoral Fellowships available in the following areas:

Research

- Molecular Biology
- Transgenics/Gene Targeting
- Biochemistry
- Genomics
- Protein Chemistry
- Immunology
- Bioinformatics
- Cell Biology

Research activities at Immunex are oriented toward the molecular basis of immune regulation and cytokine action, particularly the cloning of novel cytokines, cytokine receptors and other immunoregulatory molecules, the identification of virally-encoded immune modulators, analysis of the biological activities of these molecules, the signal transduction pathways by which they act and investigations of the structural basis of ligand-receptor interactions. A significant effort is also

devoted to the study of in vitro and in vivo models of normal and abnormal immune regulation as a means to identify novel immunoregulatory molecules and to characterize their biological activities. Both in vitro and in vivo studies are also underway in the general area of gut biology with particular focus on the control of proliferation and function of intestinal epithelium in response to immunoregulatory molecules and novel cytokines.

Immunex offers a collaborative, supportive, team environment, and a competitive salary and benefits package. For consideration, please send cover letter and resume, referencing Job #7230 to:

Immunex Corporation
Attn: Human Resources Dept. #7230
51 University Street
Seattle, WA 98101

Equal Opportunity Employer

IMMUNEX®

FACULTY POSITIONS IN SYSTEMS NEUROSCIENCE

WASHINGTON UNIVERSITY

Department of Anatomy and Neurobiology

Tenure track faculty positions in the area of systems neuroscience are available in the Department of Anatomy & Neurobiology at Washington University School of Medicine. We seek individuals whose research focusses on non-human primates and who are taking innovative approaches to important questions in systems neuroscience, including sensory processing, motor control, or cognitive function. We are particularly interested in applicants whose proposed research program includes a strong computational aspect. Excellent laboratory space will be available in a newly completed state-of-the-art primate facility. Our emphasis is on appointments at the Assistant Professor level, but appointments at a more senior level will also be considered.

The Department of Anatomy & Neurobiology includes 20 faculty who are actively involved in neurobiological research, and it is part of a much larger interdepartmental neuroscience program. The new primate facility is in close proximity to a new Imaging Center containing superb PET and MRI research facilities. Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations.

Applicants should send a curriculum vitae, synopsis of research interests, and names (incl. addresses, phone/fax/email) of three references to: **Dr. David Van Essen, Head, Department of Anatomy and Neurobiology, Box 8108, Washington University School of Medicine, 660 S. Euclid Ave., St. Louis, MO 63110, USA.** Applications should be received by December 20, 1995.

Washington University is an Affirmative Action/Equal Opportunity Employer. Applications from minorities and women are encouraged.

CHALLENGING THE BIG PROBLEMS WITH GREAT SCIENCE

Agouron Pharmaceuticals, Inc., a pioneer and leader in the field of structure-based drug design is seeking talented scientists to join our multidisciplinary team in the following areas:

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- BIOCHEMISTRY
- CLINICAL RESEARCH
- COMPUTATIONAL CHEMISTRY
- PHARMACEUTICAL DEVELOPMENT
- PHARMACOLOGY
- PROCESS/SCALE-UP CHEMISTRY
- SYNTHETIC ORGANIC CHEMISTRY

Located in the intellectually stimulating environment of La Jolla, California, Agouron offers an excellent compensation and benefits package. For immediate consideration, please send a detailed résumé to: Human Resources, Agouron Pharmaceuticals, Inc., 10350 N. Torrey Pines Rd., La Jolla, CA 92037. EOE.



Agouron
Pharmaceuticals, Inc.

POSITIONS OPEN

POSTDOCTORAL SCIENTIST Cell Biology

Position available starting immediately for up to three years in the Architectural Dynamics in Living Cells Program. Applicants are expected to have strong background in cell biology with interest to participate in the development of innovative imaging techniques. Current projects investigate the structural basis and control of mitosis, cell division and morphogenesis, with emphasis on biophysical studies made directly on single living cells. Development of biophysical instrumentation and methodology, such as high resolution polarization optical and video microscopy and digital image processing techniques, and their underlying theory, are an integral part of the program's effort. Send curriculum vitae with bibliography and names and telephone numbers of three references to: **Human Resources, Marine Biological Laboratory, Woods Hole, MA 02543, USA. Email: resume@mbledu.** *Equal Opportunity/Affirmative Action/Non-smoking Workplace.*

POSTDOCTORAL POSITIONS available (Bethesda, Maryland and Lexington, Kentucky) in the laboratories of **Dr. David A. Grahame** and **Dr. Edward DeMoll** to study the molecular biology of methyltransferases, and structure-function of metalloproteins and a novel multienzyme complex. Require Ph.D. in biochemistry, chemistry or related field. Send curriculum vitae and names of two references to: **Human Resources Department, The H. M. Jackson Foundation for Advancement of Military Medicine, ATTN: PL, 1401 Rockville Pike, Room 600, Rockville, MD 20852.** *Affirmative Action/Equal Opportunity Company.*

POSTDOCTORAL RESEARCH ASSOCIATE position is available for NIH-funded research for a recent Ph.D. graduate to study the role of insulin like growth factor signaling on growth and differentiation pathways in malignant myogenic cells. Applicants should have a strong background in molecular pharmacology and molecular/cell biology techniques. Send curriculum vitae with names of three references to: **Dr. P. Houghton, Department of Molecular Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105-2794.** *Equal Opportunity/Affirmative Action Employer.*

Harvard Medical School. **POSTDOCTORAL POSITIONS** in Biological/Social Psychiatry. Research training in both psychobiological and psychosocial areas with integrative seminar; for M.D.s (including residents) and Ph.D.s who are U.S. Citizens or permanent residents. Fellowships begin after 1 July 1996. Stipends: \$19,600 to \$32,300. Deadline 1 February 1996. Contact: **Polly Trout, Clinical Research Training Program, Judge Baker Children's Center, 296 Longwood Avenue, Boston, MA 02115. Telephone: 617-232-8390, x2559.** *Minorities and M.D.s encouraged to apply.*

POSTDOCTORAL POSITION available immediately to study the function of prostatic androgen-response genes and their roles in the transition of prostate cancer from an androgen-dependent state to a lethal androgen-independent state. Applicants should have a Ph.D. in molecular biology, biochemistry or a related field. Send curriculum vitae and names of three references to: **Zhou Wang, Ph.D., Department of Urology, Northwestern University Medical School, Tarry 11-715, 303 East Chicago Avenue, Chicago, IL 60611. FAX: 312-908-7275.** *Affirmative Action/Equal Opportunity Employer.*

Laboratory for Biomaterials Research/Department of Chemistry at Rutgers University has openings for **POSTDOCTORAL ASSOCIATES** with expertise in synthesis, polymer science, or tissue engineering. Starting salary: \$30,000 plus excellent benefits. Outstanding prior research accomplishments and proficiency in English required. Send résumé, current U.S. visa status, and names of three references to: **Wright-Rieman Laboratories, P.O. Box 939, Piscataway, NJ 08855-0939.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS available immediately to develop new DNA sequencing methods based on capillary array electrophoresis and microfabrication technologies and to apply these technologies to the Human Genome Project. Experience in microfabrication, DNA sequencing and/or biophysical chemistry and spectroscopy desirable. Send résumé and three references by November 1, 1995 to: **Dr. Richard A. Mathies, Department of Chemistry, University of California, Berkeley, CA 94720.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



RESEARCH GENETICIST Plant Science Research Unit St. Paul, Minnesota

ARS is seeking a **SCIENTIST** to conduct research in alfalfa genetics and improvement who will select and enhance alfalfa germplasm for traits having potentially environmental or commercial uses; physiological and morphological traits that improve quality, persistence, and N₂ fixation; and resistance to pathogens. Scientist will lead interdisciplinary team to develop a comprehensive approach to alfalfa improvement. A Ph.D. degree in plant breeding, plant genetics, or related discipline is desirable. Knowledge of plant breeding and genetics, plant biology, and agronomy is required. *Must be a U.S. citizen.* Salary commensurate with experience: range \$35,575 to \$55,452 per annum. For information on the position, contact: **Dr. Carroll Vance, Telephone: 612-625-5715.** For application package, contact **Marilyn Stetka, Telephone: 301-344-1864.** Applications in response to this advertisement should be marked **ARS-D5N-185** and must be postmarked by November 27, 1995. Submit to: **USDA, REE, ARS, HRD, NOB, 6305 Ivy Lane, Room 325, Greenbelt, MD 20770-1435.** *USDA/ARS is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION NONLINEAR ANALYSIS OF SINGLE CHANNEL RECORDINGS

To analyze currents from single ion channels using fractals, chaos (nonlinear dynamics), neural networks, and random walks to determine the energy structure and motions within ion channel proteins. Requires experience in patch clamp electrophysiology experiments as well as knowledge of mathematics or physics. Interdisciplinary environment of neuroscientists, psychologists, and physicists using nonlinear methods to study the brain and other biological systems. **Dr. Larry S. Liebovitch, Center for Complex Systems, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. Internet: LIEBOVITCH@WALT.CCS.FAU.EDU.** *Florida Atlantic University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

Available to study the role of activity in developmental plasticity of neocortex/superior colliculus. Experience with electrophysiological or neuroanatomical techniques desirable. Send curriculum vitae to: **S. L. Pallas, Division of Neuroscience, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** *Baylor is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

POSTDOCTORAL ASSOCIATE

Fox Chase Cancer Center has a current need for a **POSTDOCTORAL ASSOCIATE** to study the molecular basis of cytotoxic drug resistance. Background in molecular biology required. For consideration, please send curriculum vitae and names of three references to: **Dr. Gary Kruh, c/o Human Resources-MAS, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.** *Equal Opportunity Employer.*

POSTDOCTORAL POSITIONS are available to study the cellular immunology and pathogenesis of picornaviruses, endogenous retroviruses, Epstein-Barr virus or respiratory syncytial virus. Candidates with a strong background in immunology, virology, or molecular biology are sought. Submit curriculum vitae and the names of three references to: **Dr. Marie Chow or Dr. Martin Cannon, Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, Mail Slot 511, 4301 West Markham, Little Rock, AR 72205.**

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION to study a novel ankryrin required for proper axonal guidance in *Caenorhabditis elegans* (see Otsuka et al., *J. Cell Biol.*, 129:1081-1092, 1995). Send a curriculum vitae and three letters of reference to: **Dr. Anthony Otsuka (ajotsuka@rs6000.cmp.ilstu.edu), Department of Biological Sciences 4120, Illinois State University, Normal, IL 61790-4120.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

CELLULAR IMMUNOLOGIST

Virion Systems, Inc., a small biotechnology company established in 1987, seeks a cellular immunologist with strong molecular biology experience. Our projects include studies of the pathogenesis and therapy of respiratory viral infections, and the development of new vaccines and vaccine strategies for viral and bacterial agents. The position requires a doctoral degree and postdoctoral experience. Candidates who have been principal investigators on grants or contracts will be favored. Please send a letter of interest, a curriculum vitae with grant/contract history, and the names of three references to: **Dr. Gregory A. Prince, Vice President, Virion Systems, Inc., 9610 Medical Center Drive, Suite 100, Rockville, MD 20850.** *An Equal Opportunity/Affirmative Action Employer.*

STAFF SCIENTIST. Office of Oversight. The Office of Inspector General, National Science Foundation (NSF), seeks qualified applicants for a **STAFF SCIENTIST** position in the excepted service, AD-II (salary range \$36,174 to \$67,021). Staff Scientists investigate allegations of misconduct in science and engineering and participate in on-site inspections at grantee institutions. The position requires the ability to write effective analytical and technical reports, to conduct interviews, and to speak before an audience. Contact **Sybil Smith at Telephone: 703-306-1185, extension 3090,** for a copy of the detailed vacancy announcement, which includes instructions on how to apply. Applications and supporting documents are due by November 8, 1995.

ENVIRONMENTAL SCIENTISTS

Versar, Inc. has immediate openings for broadly trained environmental scientists to join a growing team working on environmental monitoring, ecological risk, and impact assessment studies. Three positions are available: 1) Environmental Chemist/Ecological Toxicologist, 2) Freshwater Ecologist, and 3) Scientific Programmer. Additional information may be found at Versar's World Wide Web site: <http://www.versar.com>. Interested candidates should submit a current résumé to: **Glynda Squiggins, Versar, Inc., 9200 Rumsey Road, Columbia, MD 21045-1934. FAX: 401-964-5156; Email: esaemploy@versar.com.** *Equal Opportunity Employer.*

RESEARCH DIRECTOR

Midwestern specialty agricultural chemical firm seeks an executive level **RESEARCH DIRECTOR** to head its nine-member Technical Department. This person will report directly to the president. Principal duties will be to direct all research, product development, quality assurance, and government regulatory efforts. The successful candidate will also make technical presentations to fellow Ph.D.'s in client organizations. This individual will thrive in a sales-driven environment. Excellent communication skills; Ph.D. in Biochemistry; and experience in microbiology, analytical chemistry, and organic chemistry required. Must have industry experience. Please send résumé in confidence to: **Mr. Dwaine Francis, Francis & Associates, 6923 Vista Drive, West Des Moines, IA 50266.** *Physical with drug test required. Non-smokers only.*

TWO QUANTITATIVE ECOLOGISTS—San Francisco Bay area. The Tiburon Laboratory of the National Marine Fisheries Service, a NOAA research facility, has two permanent positions (\$37,087 to \$68,711) in salmon-related research. 1) Mathematical Statistician, announcement RN95-242JN, to develop and evaluate statistical methods of population analysis. 2) Ecologist or Research Fishery Biologist of Operations Research Analyst, announcement RN95-244JN, to develop habitat-related population models. Both close October 27, 1995. **Telephone: 206-526-6067. Call promptly for materials.** *An Equal Opportunity/Affirmative Action Employer.*

STAFF VIROLOGIST. Responsible for performing research and development activities related to the identification and analysis of inhibitors of HIV-1. Seeking a Ph.D. in microbiology or virology with experience in the biology and pathogenesis of HIV-1 infection. Excellent oral and written skills are a must; experience in the analysis of anti-HIV agents desired. Suburban Maryland location. Mail curriculum vitae, a statement of research interests, and names with telephone numbers of three references to: **Manager—Virology Research Group, Southern Research Institute, Frederick Research Center, 431 Aviation Way, Frederick, MD 21701-4756.**

**Interdisciplinary Graduate Program in
Cellular and Molecular Biological Sciences**

Mount Sinai School of Medicine

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- Cell Cycle and Growth Control
- Intracellular Protein Trafficking
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- Developmental Biology
- Structural Biology
- Molecular Virology

The graduate school at Mount Sinai School of Medicine has created an interdisciplinary PhD program in Cellular and Molecular Biological Sciences. Over 40 faculty members from different departments participate in the program. Stipends are available to all students as tuition-free fellowships. Interested candidates are urged to contact the Graduate School at the following address for more information and an application form:



Mount Sinai Graduate School of
Biological Sciences
Box 1022
One Gustave L. Levy Place
New York, NY 10029

Phone: (212) 241-6546
FAX: (212) 241-0651
E-mail: grads@smtplink.mssm.edu

Public Health Service, National Institutes of Health
National Institute of Environmental Health Sciences

**SENIOR STAFF SCIENTIST-COLLABORATIVE
RESEARCHER IN MATHEMATICAL MODELING**

A senior staff scientist position is available in mechanistic modeling of biochemical and physiological systems. This position provides collaborative research support to scientists within the NIEHS by developing mathematical models for observed biological effects, applying the model to available data for parameter estimation and model validation, testing hypotheses within the context of the model and extending the model to aid researchers in designing new studies and new assays. Extensive experience in biochemical systems modeling and physiologically-based pharmacokinetic modeling is required for this position. Applicants should have a demonstrated ability to do collaborative research (publications, etc.), detailed understanding of mathematical modeling methodology and experience with several computer simulation packages, including SCoP, Simusolv, MatLab, and Mathematica. This is a permanent Federal Civil Service position classified as Mathematician, GS-1520-13/14, with a salary range from \$50,706 to \$77,893. For additional information, contact Dr. Christopher Portier at 919-541-4999 or e-mail Portier@niehs.nih.gov. Persons should indicate their interest in this position by providing their full name and return address to:

Ms. NORMA L. DAYE
HUMAN RESOURCE MANAGEMENT BRANCH
(HNV122)
P. O. BOX 12233, MAILDROP 1-01
RESEARCH TRIANGLE PARK, NC 27709
919-541-0218



Applications must be postmarked by November 13, 1995. The Office of Personnel Management will forward an application package at a later date.

**NEUROBIOLOGY
TENURE TRACK AND TENURE FACULTY POSITIONS**

**University of Maryland Dental School
Department of Oral and Craniofacial Biological Sciences**

The Department of Oral and Craniofacial Biological Sciences was recently established from the merger of the basic science departments in the Dental School. New full-time faculty are being recruited with broad expertise in molecular and cell biology and interested in pursuing research in the following areas: the development of the nervous system and its response to injury, mechanisms of salivary gland function, bone and cartilage formation and turnover, and the role of the immune system in the inflammatory process. Core facilities in molecular biology, tissue culture, immunohistochemistry, and image processing are being established. Joint appointments in the medical school will be offered to those candidates who exhibit a strong potential for collaborative research.

Positions are primarily at the Assistant and Associate Professor levels but outstanding candidates at any level will be considered. Successful candidates will have a Ph.D. or equivalent, a record of outstanding research achievement, and a demonstrated ability to attract external funding. For best consideration, applications should be received by November 1, 1995. Applicants should send a C.V., copies of their two most significant publications, brief descriptions of present research and future research plans, and the names of 3-5 individuals from whom recommendations can be obtained, to:

Dr. Ronald Dubner, Chair
Department of Oral and Craniofacial Biological Sciences
Dental School, Rm 5E-08
University of Maryland at Baltimore
666 W. Baltimore Street
Baltimore, Maryland 21201

We especially encourage women and minorities to apply. The University of Maryland is an AA/EEO/ADA employer.

**Ph.D. SCIENTIST
TUMOR BIOLOGY**

Wyeth-Ayerst Research, a division of Fortune 150 American Home Products Corporation, has an opportunity at its Pearl River, New York pharmaceutical research facility.

This position in Tumor Biology requires a minimum of 7 years post Ph.D. experience in a variety of aspects of in vitro and in vivo tumor assessment. The individual should have extensive experience in tissue culture as well as some experience in the growth of human tumors in xenogeneic models. Experience with orthotopic transplantation would be an asset.

Responsibilities will include managing three to five people in the assessment of drug interactions against human tumors in vitro and in vivo. Some experience in evaluating the mechanism of drug effects on tumor cells as well as a good understanding of cell cycle dynamics is essential. Supportive skills in other disciplines applicable to Oncology is preferred. Industrial experience is not required, but would be an added strength.

Explore your exceptional career opportunities with Wyeth-Ayerst. We offer salaries commensurate with experience, and comprehensive benefits. Please send your resume with salary requirements to:
**Wyeth-Ayerst Research, Position #1573,
401 Middletown Rd., Pearl River, NY 10965.**
Or, you may fax your resume directly into our centralized Research resume database at (610) 989-4854. Principals only. Equal Opportunity Employer, M/F/D/V.



Leading The Way for a Healthier World

POSITIONS OPEN

POSTDOCTORAL POSITIONS HARVARD UNIVERSITY

POSTDOCTORAL POSITIONS are available to study the molecular basis of metabolic disorders, especially insulin resistance and obesity. Projects include 1) analysis of signal transduction pathways of cytokine and insulin receptors, 2) analysis of the biological role(s) of fatty acid binding proteins and the mechanisms by which fatty acids regulate gene expression, and 3) analysis of the molecular control of lineage commitment and differentiation in cultured adipocytes. These projects are performed on mammalian systems and extensively utilize transgenic and knock-out mice models as well as cultured cells. Qualified applicants who possess an M.D., Ph.D. or M.D./Ph.D. degree with a strong background in molecular biology should send curriculum vitae and three letters of recommendation to:

Gökhan S. Hotamisligil, M.D., Ph.D.
Harvard School of Public Health
Department of Nutrition
665 Huntington Avenue
Boston, MA 02115

Harvard University is an Equal Opportunity Employer.

POSTDOCTORAL POSITION HIV RESEARCH

POSTDOCTORAL POSITION available immediately to study cytokine and cytokine antagonist control of HIV replication and immune response. The *in vitro* research is oriented toward designing therapeutic approaches for *in vivo* use. A Ph.D. or M.D. degree is required and a strong background in HIV research or molecular biology is highly desirable. Send curriculum vitae and names of three references to: Paul Skolnik, M.D., Division of Infectious Diseases, Tufts University-New England Medical Center, 750 Washington Street, NEMCH 67, Boston, MA 02111. FAX: 617-636-7008; Email: paul.skolnik@es.nemc.org. *New England Medical Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

One or more **POSTDOCTORAL POSITIONS** are available immediately to conduct research on projects funded by NIH, NSF, NASA, and DOE, involving photoproteins, single chain antibodies, and periplasmic binding proteins. Demonstrated experience in Molecular Biology (including PCR) is required. Send curriculum vitae and names of three references to: Dr. Sylvia Daunert, Department of Chemistry, University of Kentucky, Lexington, KY 40506. FAX: 606-323-1069; Email: sdaun00@ukcc.uky.edu.

POSTDOCTORAL POSITION available immediately to study novel amplified genes in human tumors. Techniques being utilized include microdissection, PCR amplification, fluorescent *in situ* hybridization (FISH), as well as routine molecular biological techniques. This project includes collaboration with members of the Human Genome Project at The University of Texas Health Science Center at San Antonio. Required: Ph.D. with strong background in molecular biology. Experience with cytogenetics and FISH preferable. Send curriculum vitae, description of research training and experience, and names and addresses of three references to: S. Gail Eckhardt, M.D., c/o Personnel Department, Cancer Therapy and Research Center, 8122 Datapoint Drive, Suite 600, San Antonio, TX 78229. *Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION DEPARTMENT OF ANESTHESIA Opioid Pharmacology/Pain Therapy

Available immediately, to study opioid analgesic effects, drug interactions and tolerance in animal and human models using pharmacokinetically based approaches. Doctoral degree with pharmacology/pharmaceutics background required; training in analytical chemistry (HPLC, GC), pharmacokinetic analysis/modeling, small animal surgery, and strong computer skills are highly desirable. Send curriculum vitae and names of three references to: T. H. Kramer, Department of Anesthesia, University of Pennsylvania, 7Dulles/HUP, 3400 Spruce Street, Philadelphia, PA 19104-4283. Email: KRAMER@AL.MSCF.EDU. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



STAFF SCIENTIST/SENIOR SCIENTIST

The Boston Biomedical Research Institute invites applications from candidates with interests in cellular, molecular and structural biological aspects of non-muscle cell motility, molecular motors and the cytoskeleton. Generous start-up funds and excellent facilities will be available to the successful candidate. The Boston Biomedical Research Institute is an independent biomedical research center that offers an exceptionally collegial and intellectually stimulating environment. Applicants should submit a curriculum vitae, a description of research interests, and names of three references to: Ms. Barbara Zillman, Secretary, Search Committee, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114. *Boston Biomedical Research Institute is an Equal Opportunity Employer.*

ASSOCIATE SCIENTIST AND POSTDOCTORAL POSITIONS

To work in the laboratory of Dr. Kenneth M. Baker, on G-protein receptor mediated cellular growth and the role of tyrosine phosphorylation in this process. Emphasis will be placed on the angiotensin II (type AT_{1A}) receptor in cardiovascular cells and stably transfected cell lines, to define the mechanisms of coupling to JAK-STAT and other signaling pathways and the importance of these events in gene regulation and cellular growth. Other areas of investigation include the molecular regulation of angiotensin receptors and of renin-angiotensin system genes in cardiac cells. A Ph.D. and/or M.D. is required with a background and experience in biochemistry, molecular and cellular biology. Salary will be commensurate with education and experience. Send letter of interest along with curriculum vitae and three letters of reference to: Geisinger Human Resources (KMB), 100 North Academy Avenue, Danville, PA 17822-1529. *Equal Opportunity Employer. Minority/Female/Disabled/Veteran.*

The Division of Gastroenterology at the Ohio State University School of Medicine is inviting applications for two **POSTDOCTORAL POSITIONS** to commence immediately. The candidates should have a Ph.D. in biochemistry, physiology or molecular biology. Expertise in the following areas is desirable: electrolyte transport, protein chemistry, patch clamping, and routine molecular biology techniques such as construction of cDNA and genomic libraries. Please send a curriculum vitae and three references to: Linda Graff, Administrator, Room N214 Doan Hall, 410 West 10th Avenue, Columbus, OH 43210, USA.

POSTDOCTORAL POSITION available to participate in two NIH-funded multidisciplinary research projects: gene regulation and the physiological role of brain neurokinin receptors and the regulation of neurotransmitter transporter gene expression and function. Send curriculum vitae and three letters of reference to: Dr. Michael J. Bannon, Department of Psychiatry and Behavioral Neurosciences, Wayne State University School of Medicine, 540 East Canfield, 2309 Scott Hall, Detroit, MI 48201. *Wayne State University is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION open to study mechanisms of transformation of epithelium to mesenchyme (EMT). Genes that are turned on during EMT in the embryo and during induced EMT *in vitro* will be identified by *in situ* and subtractive hybridization techniques and their functions analyzed by transfection of embryonic cells. Previous experience with molecular biology techniques and a good background in cell and developmental biology are highly desirable. Send curriculum vitae to: Dr. Elizabeth Hay, Department of Cell Biology, Harvard Medical School, 220 Longwood Avenue, Boston, MA 02115. FAX: 617-432-0407.

UNIVERSITY OF VIRGINIA Steroid Receptors-Blood Vessels

POSTDOCTORAL POSITION available to study the expression and regulation of estrogen receptors in heart and arterioles of rats using molecular, cellular, and *in vitro* approaches. *U.S. citizenship or permanent residency is required.* Send résumé and names of four references to: Dr. C. Desjardins, Medical Center Box 391, University of Virginia, Charlottesville, VA 22908.

POSITIONS OPEN

RESEARCH SCIENTIST

The Department of Surgery is seeking candidates to direct a vascular biology research program studying the etiology of atherosclerosis and vein graft intimal hyperplasia. Specifically, the candidate should have knowledge of the role of leukocytes and their cytokines/receptors, as well as the functions of mural smooth muscle and endothelial cells. Knowledge in hemodynamics will also be valuable.

The qualified individual should have a Ph.D. or equivalent, at least two to four years' postdoctoral training, and an excellent publication record. Individual must be interested in working with M.D.'s in the development of clinically relevant investigatory approaches.

This position is limited to three years, with extension contingent on extramural funding. Send curriculum vitae, description of research goals, and the names, addresses, and telephone numbers of three references to: Dr. John Hoch, Department of Surgery, University of Wisconsin, Clinical Science Center H4/730, 600 Highland Avenue, Madison, WI 53792-7375.

STAFF SCIENTIST Sea Education Association

Nonprofit educational institution seeks a **STAFF SCIENTIST** to teach oceanography in innovative programs ashore and at sea. Undergraduate semester courses consist of six weeks of intensive classroom instruction followed by six weeks of teaching on board our sailing research vessels, *SSF Westward* and *Conrith Canner* in waters between Newfoundland and the Caribbean. Shorter seminar courses are offered to high school students, teachers, and adults. Successful candidates will teach two semester courses and selected seminar programs each year, spending approximately 14 weeks at sea. Ph.D. in marine science required. The position is available beginning January 1996. A review of applications will begin on November 15, 1995 and will continue until the position is filled. Please send a curriculum vitae and the names and addresses of three references to: Staff Scientist Search Committee, Sea Education Association, P.O. Box 6, Woods Hole, MA 02543. *An Equal Opportunity Employer.*

NMR SPECTROSCOPY

The Cardiovascular NMR Section at Columbia University seeks applicants for the position of **POSTDOCTORAL RESEARCH SCIENTIST** with an M.D. or Ph.D. degree and one to two years of postdoctoral experience in NMR spectroscopy, with interest in becoming involved in studies of perfused hearts and isolated cardiac myocytes. Expertise with NMR studies of cell systems and with multiple-quantum NMR is especially desirable. Our current interests are in pursuing multinuclear spectroscopy including proton, sodium, and phosphorus. In addition, the candidate will have the opportunity to become involved in multinuclear MR imaging. This is primarily a research position with no clinical responsibilities. Please send curriculum vitae, a reprint of a key publication, and the names of two references to: Dr. Jose Katz, Division of Cardiology, College of Physicians and Surgeons, Columbia University, 630 West 168th Street, New York, NY 10032. *Columbia University is an Affirmative Action/Equal Opportunity Employer.*

RESEARCH GENETICIST (PLANTS)

USDA, Agricultural Research Service (ARS), National Forage Seed Production Research Center, Corvallis, Oregon. Conduct research on the genetics, cytogenetics, cytology, and agronomy of hops to develop new hop germplasm. Produce new hop cultivars with improved quality and increased disease and pest resistance. Salary range is \$35,578 to \$42,641 per annum. This is a full-time, permanent position. For a copy of the announcement, please telephone: 503-750-8700. Closing date is October 30, 1995. *Open to all U.S. citizens. ARS is an Equal Opportunity Employer.*

FOOD SCIENCE SPECIALIST

Needed immediately for space food research team to work on sweet potato and peanut nutritive analyses, product development, sensory evaluation, statistical analyses. HPLC, AA, computer skills and B.S. with research experience minimum. Prefer M.S. or Postdoctoral. Send résumé and three references to: Dr. Phil Loretan, NASA Center for CELSS, Tuskegee University, Tuskegee, AL 36088. Telephone: 334-727-8129 or FAX: 334-724-3351. *Women and minorities encouraged to apply.*

Opportunities in Drug Discovery

As the established world leader in gene discovery, HGS has utilized automation and high-throughput DNA sequencing to identify new human genes and analyze patterns of gene expression under defined conditions of cell activation and development. From this rich source of information, our goal is to identify novel human protein pharmaceuticals and drug targets with therapeutic potential for unmet medical needs.

HGS offers an excellent salary and benefits package which includes medical & dental coverage, tuition reimbursement, 401(k) and reduced fee health club membership.

For immediate consideration, please send your curriculum vitae to **Human Resource Department, Human Genome Sciences, Inc., Attn: Position (____), 9410 Key West Avenue, Rockville, MD 20850-3331. An Equal Opportunity Employer.**



HGS

Human Genome Sciences, Inc.

Dedicated to Discovery for Health

PHARMACOLOGY

This position primarily involves the development of pre-clinical, small animal models for a wide variety of activities and/or diseases. Candidates will be expected to take proteins with demonstrated desirable in vitro activities and characterize them further both in vitro and in appropriate animal models. Candidates with expertise in small animal models and isolated organ systems involving peripheral neuronal degenerate diseases, wound repair, immunopharmacology and inflammation are encouraged to apply. A willingness to be creative in animal model development is essential. Requires at least 3 years laboratory experience in related fields and demonstrated record of past performance. Ph.D. in related fields such as pharmacology, physiology or immunology is necessary (Position PM-10).

CELL BIOLOGY/SMALL ANIMAL MODELS

Several positions exist for Ph.D./M.D. applicants (5+ years industry experience) with demonstrated expertise in cell biology or molecular pharmacology to conduct studies in small animals with novel therapeutic proteins. Responsibilities include planning and performing experiments using animal models in one or more of the following fields: autoimmunity, chronic inflammation, tissue remodeling or neurodegenerative disease (Position CB-10).

BIOPROCESS SCIENTISTS

Positions are available for individuals to work in our new, state-of-the-art bioprocess development facility. We are looking for experienced process scale scientists for scaling up recombinant protein production in mammalian (and insect) cell culture systems. Responsibilities will include serum-free media development and process optimization for CHO cell cultures and determination of cellular metabolic parameters, especially with regard to nutrient requirements and recombinant protein secretion. Candidates must possess a Ph.D. in biological science or related discipline and have 3+ years industry experience in CHO cell culture and bioreactor systems. Computer skills are essential and knowledge of cGMPs is highly desirable (Position PE-10).

MOLECULAR BIOLOGY and ASSAY DEVELOPMENT

The successful applicant will work with a group of scientists using an extensive cDNA database to discover and characterize novel protein therapeutics and develop cell-based assays for functional analysis of protein candidates. This position requires demonstrated expertise in one or more of the following areas: immunology, inflammation, or cytokine biology. A Ph.D. or M.D. with 3 + years post-graduate experience is required (Position PT-10).

RESEARCH SCIENTISTS

San Francisco Bay Area

ALZA Corporation is a world leader in advanced drug delivery systems technology. Our strong record of scientific achievement has led to the successful development of over 25 marketed drugs and pharmaceutical products. ALZA is growing, and we have a couple of excellent opportunities in our Biological Sciences Department for 2 qualified scientists to help sustain our continuing success.



SKIN INFLAMMATION

This scientist will head a research team investigating mechanisms of skin irritation induced by electro-transport transdermal drug delivery. Special emphasis will be placed on understanding the respective roles of electrical fields and drugs in the generation of cutaneous inflammation and optimization of systems to reduce this effect. The position requires a Ph.D. in biology or bioelectrical engineering and 4-6 years of academic or industrial research experience in skin biology.



CONTACT IRRITATION/SENSITIZATION

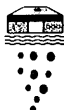
This scientist will lead a team investigating molecular and cellular mechanisms of drug induced skin irritation and sensitization with emphasis on mechanisms and approaches to mitigating these responses. The position requires a Ph.D. in biology or immunology and 4-6 years of academic or industrial research experience in skin biology.

BOTH POSITIONS will be responsible for project areas, manage BS & Ph.D. level scientists and require the preparation of written/technical documents, oral presentations and project updates. They will also be expected to present at national scientific meetings and publish meritorious work. A strong, fundamental scientific background and excellent managerial, collaborative, and written/spoken communication skills are essential.

For consideration, please send resume to: **ALZA Corporation, HR Dept., Attn: Job# SC106-SH, 950 Page Mill Rd., P.O. Box 10950, Palo Alto, CA 94303-0802.** Fax: (415) 494-5151. TDD: (415) 494-5003. Or call our Job Hotline at (415) 494-5319. *ALZA is proud to be an Equal Opportunity Employer and welcomes applications from minorities & persons with disabilities.*



alza



**Consortium for Oceanographic Research & Education
and the Naval Research Laboratory
announce the**

**Postdoctoral Fellowship Program
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Research opportunities are currently available in:

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Postdoctoral Fellows and Distinguished Visiting Scientists will conduct research at one of three Naval Research Laboratory sites:

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Postdoctoral Fellows will receive an annual stipend of \$36,000 plus health benefits. The Fellowship award is for one-year, renewable for one additional year.

The Distinguished Visiting Scientist Program will reimburse the home institution for costs associated with the Distinguished Visiting Scientist's salary and benefits. The length of the award for Distinguished Visiting Scientists is six months to two years.

Participants in both programs must be U.S. citizens or person who become naturalized U.S. citizens on or before the date their work at the Naval Research Laboratory begins. In addition, participants must hold or be eligible for a Department of Defense security clearance of Secret.

Information and application forms are available from:

*CORE/NRL Postdoctoral Fellowship and DVS Programs
Consortium for Oceanographic Research and Education
1755 Massachusetts Avenue, NW, Suite 800
Washington, DC 20036-2102
tele: (202) 232-3900
fax: (202) 232-8203
email: core@brook.edu*

The deadline for applications is March 1, 1996

RESEARCH ASSOCIATE, IMMUNOASSAY DEVELOPMENT Job #1387-A

Pioneer Hi-Bred International, a world leader in agricultural advances through classical genetics and bioengineering, has a challenging opportunity on the Protein Assay Development Team for a person who can complement the existing technologies of immunoassay development in our group. We are expecting this person to have an in-depth understanding of all aspects of immunoassay development including ELISA, western blots and dot blots. In addition, we are seeking someone who is willing to participate in the assessment of new technologies for rapid immunodetection and protein analysis such as enzymatic assays which lend themselves to automation. The ability and willingness to enhance communication among colleagues within Analytical Biochemistry and across Crop Departments is considered to be very important. **EDUCATION/EXPERIENCE:** B.S. degree or equivalent plus 2 years of directly related lab experience; or M.S. degree. Preference will be given to candidates who possess additional years of directly related laboratory experience. Experience in transgenic plant analysis and knowledge of statistics and statistical software will be considered a plus.

Pioneer Hi-Bred International, Inc. is an Equal Employment Opportunity company.

Please send resume, cover letter and three references by October 31, 1995 to:

**Pioneer Hi-Bred International, Inc.
ATTN: Dawn M. Meyer, Job# 1387-A
P.O. Box 1004
Johnston, IA 50131-1004**



We'd like you to consider a career in general management consulting.

McKinsey & Company is a professional firm that advises senior management of the world's leading organizations on issues of strategy, organization, and operations. Our 3,000 consultants come from a variety of backgrounds - business, law, economics, science, and engineering - but share a common characteristic: all are distinctive in their fields and have the intellectual capabilities and personal qualities to provide outstanding service to our clients.

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If you are interested in working side-by-side with the senior managers of important organizations, growing professionally in a stimulating and supportive

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Send resume to:

Katherine Padgett
McKinsey & Company
55 East 52nd Street
New York, NY 10022

Interested candidates should hold or be completing a graduate degree in science or engineering and have up to 5 years work experience. Candidates should have an outstanding record of academic achievement, strong analytic and quantitative skills, demonstrated leadership, excellent communication skills, and comfort in a team environment. A motivation to learn and to have impact in solving difficult, practical problems is essential.

McKinsey & Company



University of Kentucky

MOLECULAR DEVELOPMENTAL BIOLOGY

The Molecular and Cell Biology Section of the T. H. Morgan School of Biological Sciences invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** position for the Fall of 1996. We seek an individual of exceptional promise engaged in research on molecular mechanisms that control gene expression and genetic programs in development. Individuals working with invertebrate systems (e.g. insects, nematodes) are especially encouraged to apply. Applicants should be able to develop an independent, nationally-competitive research program and contribute to graduate and undergraduate education. The new research program will be expected to interact closely with other programs in invertebrate molecular developmental biology, fungal molecular genetics and mammalian cell growth regulation. Excellent research space, facilities and start-up support are available.

ENVIRONMENTAL PHYSIOLOGY

The Organismal and Integrative Biology Section of the T.H. Morgan School of Biological Sciences invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** position for the Fall of 1996. We seek an individual of exceptional promise engaged in research on how organisms, populations and/or communities respond to chemical or other environmental stresses. Research might focus on molecular, physiological, or environmental mechanisms or processes that regulate responses to stress. Strong priority will be given to candidates working with macroinvertebrates, fish or amphibians. Applicants should be able to develop an independent nationally-competitive research program and contribute to graduate and undergraduate education. The new research program will be expected to interact closely with other programs in environmental physiology and sensory biology. Excellent research space, facilities, start-up support and opportunities for multidisciplinary interactions are available.

INSTRUCTIONAL SPECIALIST

The T.H. Morgan School of Biological Sciences invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** teaching position for the Fall of 1996, contingent upon final funding. We are searching for an exceptional educator, whose primary responsibility will be introductory level biology teaching. Desired qualifications include training in Ecology/Evolution or Animal Physiology, at least two years of full-time teaching beyond the Ph.D., and an interest in computer-based applications or other innovative approaches to undergraduate instruction.

Applicants should submit a vita and a summary of research plans (or of teaching philosophy for the instructional specialist position), and should have letters sent by at least three references to the appropriate search committee:

Molecular Development OR Environmental Physiology OR Instructional Specialist Search Committee, School of Biological Sciences, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225. Review of applications will begin on November 15, 1995.

An Affirmative Action/Equal Opportunity Employer

Research Scientist II

Genetic Therapy, Inc. based in the Washington, D.C. area is a leader in the development of human gene therapy products for genetic and acquired diseases. Founded in 1986, GTI and its collaborators represent one of the largest groups of scientists dedicated to research and development in the field. We are seeking a Research Scientist II in our Immunology Department to participate in studies in the field of cancer immunotherapy. The individual will be a member of a team that designs and tests clinically relevant *in vivo* models for cancer gene therapy. The applicant should have a Ph.D. in a scientific discipline and at least 2 years of relevant research experience; or equivalent. The individual must have a strong scientific background in *in vivo* tumor modeling and one of the following areas: lymphokine biology, immunology, and/or molecular biology.

GTI offers a stimulating and challenging environment in a rapidly growing company, with competitive salaries and benefits. Fax or send resume to.



Genetic Therapy, Inc.
Attn: 47-051-8/S
938 Clopper Road
Gaithersburg, MD 20878
Fax: (301) 948-0503

Genetic Therapy is an Equal Opportunity Employer

POSTDOCTORAL POSITION IN DNA AUTOMATION

The Measurement Technology Group in the Engineering Sciences & Application Division at Los Alamos National Laboratory is seeking postdoctoral candidates for a new project directed at automating DNA extraction and identification, and sequencing. Procedures and systems will be developed to carry out cell analysis, DNA extraction and purification, polymerase chain reactions, DNA identification, and amplification product confirmation. A background that includes DNA extraction, analysis, bacterial cloning systems, PCR reactions, laser induced fluorescence and spectroscopy experience is desirable. Experience with laboratory automation and instrumentation development, computer controlled instrumentation, computer-based data analysis, system development, and computer programming is desirable. Applicants should expect to collaborate with automation end users and direct need-engineering resources in self directed projects. For further technical information, contact Dr. John Elling, elling@lanl.gov.

A PhD completed within the last three years or soon to be completed required. Annual starting salaries range from \$41,250 to \$44,570, plus a generous and comprehensive benefits package. For consideration: submit **TWO COPIES** of a resume, publication list, and three letters of recommendation to Postdoctoral Programs, **PD95058**, MS P290, Los Alamos National Laboratory, Los Alamos, NM, 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505)667-8622. A teletype Device for the Deaf (TDD) is available by calling (505)665-5357. Los Alamos National Laboratory is operated by the University of California for the US Department of Energy.

Los Alamos
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- Support for relocation and professional travel; health insurance program offered
- 3 annual award competitions for most participating laboratories

Applications accepted on a continuous basis throughout the year. Those postmarked by January 15 will be reviewed in the February competition, by April 15 in June, and by August 15 in October.

For application materials and information on participating laboratories contact:

ASSOCIATESHIP PROGRAMS
(TJ-2114/S4)

NATIONAL RESEARCH COUNCIL

2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759



*Qualified applicants will be reviewed
without regard to race, creed, color, age,
sex or national origin.*

Career Opportunities at St. Jude Children's Research Hospital

St. Jude Children's Research Hospital, a premier research center for biomedical research, offers postdoctoral fellowship opportunities available in the basic and clinical sciences. Recent M.D., Ph.D., D.V.M., or Pharm.D. fellows are eligible to train with leading scientists in several basic biomedical research laboratories, including biochemistry, experimental oncology, genetics, experimental hematology, immunology, molecular pharmacology, tumor cell biology and virology/molecular biology. Additional opportunities are also available in the clinical sciences, including infectious diseases, hematology/oncology, pharmaceutical sciences, pathology and laboratory medicine, radiation oncology and diagnostic imaging. An interdisciplinary effort in cell and gene therapy has been initiated. SJCRH currently has 155 postdoctoral fellows funded from peer-reviewed grants, outside fellowships and institutional sources. Ten named fellowships are currently available.

Fellowship awards are given for up to three years and are based on merit, recommendation and the promise of a productive career in biomedical research. Stipends are highly competitive.

Applicants should provide a curriculum vitae, including a brief description of their research interests, and have three references. These should be forwarded to:

Academic Programs St. Jude Children's Research Hospital

332 North Lauderdale
Memphis, TN 38105

SJCRH is an Affirmative Action/
Equal Opportunity Employer



Danny Thomas, Founder

VIROLOGY

Agouron Pharmaceuticals, Inc. is a cutting-edge leader in the field of protein structure-based drug design. We have an immediate opening for a PhD virologist with an excellent record of scientific achievement to plan and implement research aimed at the discovery, evaluation and development of novel therapeutic antiviral agents.

The successful applicant will evaluate inhibitors, investigate mechanisms of antiviral action, and participate in the selection of lead compounds. Candidates will need experience in infectious virus cell-based assays and in biochemistry, and the ability to work effectively with a multi-disciplinary team. Prior experience with HIV, herpesvirus, and hepatitis C infection systems would be advantageous.

We offer competitive salaries and benefits. Please send a résumé to: Human Resources, CODE VR, Agouron Pharmaceuticals, Inc., 10350 N. Torrey Pines Road, Suite 100, La Jolla, CA 92037. EOE.



Agouron
Pharmaceuticals, Inc.

Computational Scientist

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just fifteen years.

We seek a Computational Scientist to design and develop relational databases and user interface using 4th Dimension or a related GUI product. Additionally, you will work with other members of the Research Applications Development group to convert the database server to Sybase and develop general and specific database tools.

A Ph.D. in the Life Sciences or equivalent and familiarity with a number of different lab techniques in molecular/cellular biology and biochemistry are required. You must have 2 years' experience in programming high level language such as C, Fortran or Pascal, and experience working with relational database applications. Qualified candidates must work well in a team environment and be able to respond in a timely manner to emergency calls. Knowledge of sequence alignments and detection of motifs in protein sequences are preferred.

We recognize that diverse perspectives are a key factor in the process of discovery.

At Amgen, you'll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail or fax your resume to: Amgen, Staffing, Job Code: OXP-SC-3048, Amgen Center, Thousand Oaks, CA 91320-1789. Fax: (805) 499-9981. Please consult our on-line Job Bulletin Board at <http://www.bio.com> for information on other career opportunities available at Amgen. Principals only, please

EEO/AA Employer M/F/D/V

AMGEN

Cadus Pharmaceutical Corporation is a rapidly growing biopharmaceutical company with facilities in CO and NY pioneering the discovery of drugs which regulate G-protein-mediated signaling pathways in the areas of inflammation, cardiovascular, and neurological disorders.

POSITIONS AVAILABLE IN OUR COLORADO AND NEW YORK FACILITIES

CELLULAR/MOLECULAR BIOLOGY & BIOCHEMISTRY

Scientists Code: S-S

PhD Scientists with 3-5 years experience (following post-doc) in molecular neurobiology including expression-gene cloning to assist in developing high throughput bioassays in our yeast-based platform technology. Opportunities exist to also extend our understanding of receptor/ligand interactions and G-protein coupling using yeast-based systems.

Research Scientists (RS) Code: S-RS

PhDs with post doc experience and background in the molecular and cellular aspects of cell signaling, protein kinases, G-proteins and seven transmembrane receptors to assist in developing high throughput bioassay in both our yeast-based and mammalian cell-based platform technologies. This research is also aimed at uncovering novel targets for drug discovery and enhancing our understanding of cell signaling.

Associate Research Scientists (ARS) Code: S-ARS

BS/MS with at least 3 years of experience to join an exciting research team working at the cutting edge of cell signaling. Background in cellular and molecular biology and biochemistry is required. Experience in gene cloning preferred.

CADUS

PHARMACEUTICAL CORPORATION

CHEMISTRY

Scientists/RS/ARS Code: S-Chem

PhD/BS/MS level scientists with 1-3 years experience in the synthesis of organic cpds with strong background in chromatographic and spectroscopic techniques (NMR, HPLC, MS). Extensive knowledge of organic chemistry essential with experience in combinatorial methods preferred. Responsibilities include synthesis of novel therapeutic agents and assist in methods development for automated combinatorial synthesis of small organic molecules.

Cadus offers competitive salaries and benefits as well as excellent opportunity for career growth in a stimulating collaborative environment.

Send CV and List of References to Science Search (please indicate Code) Cadus

Pharmaceutical Corporation, 777 Old Saw Mill River Road, Tarrytown, NY 10591-6705. Cadus is an Equal Opportunity Employer

TARGET DRIVEN TO SUCCESS



Northern Arizona University

LECTURER IN ENVIRONMENTAL SCIENCES

The Center for Environmental Sciences and Education seeks applications for a non-tenure-track renewable Lecturer position. The CESE is an interdepartmental interdisciplinary academic unit at Northern Arizona University, offering a Bachelors of Science degree in Environmental Sciences.

Applicants must have an earned Ph.D., or equivalent teaching or industrial experience, and a broad-based education in both the life and physical sciences, as well as a solid background in statistics, computer modeling and scientific writing. Opportunities for teaching training courses in remediation techniques or regulations, soils remediation, remote sensing, or related fields may arise. The incumbent will assume a major role in teaching lecture and laboratories in basic environmental science courses, as well as manage our Advisement Center and Internship Program. Experience working with a culturally diverse population is preferred.

ASSISTANT PROFESSOR OF ENVIRONMENTAL SCIENCES

The Center for Environmental Sciences and Education (CESE) seeks applications for a tenure-track Assistant Professor position. The CESE is an interdepartmental, interdisciplinary academic unit at Northern Arizona University, offering a Bachelors of Science degree in Environmental Sciences.

All applicants must have an earned Ph.D. and academic and research training in ecology, as well as a solid background in statistics and computer modeling. We seek applicants with subspecialties in either atmospheric sciences, micrometeorology, biogeochemistry or restoration ecology. Teaching responsibilities will include undergraduate environmental science and ecology courses, as well as upper division and graduate courses in the applicant's subspecialty. Opportunities in interactive instructional television may arise. The incumbent will be expected to seek extramural funding for research, and contribute to education of graduate students. We are looking for a teacher-scholar who can maintain a strong research program while making significant contributions as a teacher in our undergraduate environmental sciences courses. Experience working with a culturally diverse population is preferred.

Applications for these positions should include a letter outlining teaching and research interests, curriculum vitae and names, addresses (including e-mail) and telephone numbers of five references. Send to: **Dr. R. Scott Anderson, Search Chair, Center for Environmental Sciences & Education, Box 5694, Northern Arizona University, Flagstaff, AZ 86011.** The search will remain open until the position is filled, however, the screening committee will begin reviewing applications on December 1, 1995. *Northern Arizona University is a committed Equal Opportunity/Affirmative Action institution. Minorities, women, persons with disabilities and veterans are strongly encouraged to apply.*

Dean School of Public Health and Tropical Medicine Tulane University Medical Center

The Tulane University Medical Center invites nominations and applications for the position of Dean of its School of Public Health and Tropical Medicine. The Dean, as senior administrative officer of the School, reports to the Chancellor of the Medical Center. The Dean is responsible for the leadership and management of the School of Public Health and Tropical Medicine, which enrolls approximately 600 students, from more than 50 countries. The School has experienced unprecedented growth during the last five years, doubling its student and faculty size and more than doubling its funded research base. Research and training activities are focused on environmental and international health, health administration/policy, and tropical medicine. A Center for Cardiovascular Health was established and current activities include planning for a Center for Women's Health.

The School is a component of the Tulane University Medical Center, which also includes the School of Medicine, the Regional Primate Research Center, and the Center for Bioenvironmental Research. The Medical Center participates with the Columbia/HCA Hospital System in a joint venture in managing the Tulane Hospital.

The School of Public Health and Tropical Medicine, in collaboration with the rest of the Medical Center, is looking forward to a dynamic future. The successful candidate will guide the School during this exciting time and play a key role in the leadership of the Medical Center.

Qualifications desirable in candidates include an earned doctorate; academic qualifications for appointment at the professional level; successful teaching, research, and administrative experience; and strong leadership skills, including the ability to foster collaborative, interdisciplinary initiatives with other units of the Medical Center and University.

The position of Dean is available July 1, 1996. Screening of candidates will begin November 15, 1995 and continue until the position is filled. To be considered, submit a current c.v. and names of three references. All correspondence should be addressed to:

Dean's Search Committee
Tulane University Medical Center
1430 Tulane Avenue - SL76
New Orleans, LA 70112-2699

Tulane University is an Affirmative Action Equal Opportunity Employer

B.S/M.S. Staff Scientist

CARDIOVASCULAR DISEASES RESEARCH

Be at the forefront of drug discovery research with the DuPont Merck Pharmaceutical Company. We have established a team of creative and dynamic scientists to drive our search for novel cardiovascular therapeutics.

We currently have an opening in our Wilmington, Delaware facility. The position includes multidisciplinary responsibilities including in vitro, in vivo and ex vivo determinations of markers of coagulation and thrombosis. Responsibilities will include development, validation and implementation of enzymological and immunological assays, including ELISAs, protein isolation/purification and characterization, and animal experimentation in models of thrombosis.

The selected candidate will have a BS/MS in Biochemistry or Pharmacology with appropriate industrial or academic experience.

DuPont Merck offers a competitive salary and a generous benefits package including 401K plan as well as excellent working conditions and challenging assignments.

Please send a letter of introduction and resume to: Human Resources-S-CVS-1, The DuPont Merck Pharmaceutical Company, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer M/F/D/V.



The DuPont Merck Pharmaceutical Company
Merging Strengths...Emerging Opportunities

MEETINGS

1996 INTERNATIONAL SYMPOSIUM ON BIOLOGY OF PROSTATE GROWTH

**March 28-31, 1996
Washington, D.C. Area**

*Sponsored by:
National Institute of Diabetes and Digestive
and Kidney Diseases
National Institutes of Health*

This three-day symposium will focus on the molecular and cellular aspects of the regulation of normal and abnormal prostate growth. Presentations will include morphogenesis and stromal/epithelial cell interaction, extracellular matrix/angiogenesis/proteases, apoptosis/cell cycle, hormone regulation, growth factor regulation, and smooth muscle/androgenic receptors.

Keynote Speakers Include:

- Donald S. Coffey, Ph.D., The Johns Hopkins University School of Medicine
- Judah Folkman, M.D., Harvard Medical School
- John T. Grayhack, M.D., Northwestern University Medical School

Abstracts for the poster session will be accepted; receipt deadline for abstracts is January 10, 1996. CME credits will also be offered.

Contact: Terry LaMotte, c/o Cygnus Corporation, 5640 Nicholson Lane, #300, Rockville, MD 20852, (301) 231-0551, FAX: (301) 231-0621, E-mail: Cygnuscorp@Delphi.com

Pushing the Frontiers of Science.

For over four decades, Los Alamos National Laboratory has challenged the frontiers of science. As one of the largest multi-program national laboratories in the U.S., we are recognized as one of the world's leading scientific and engineering institutions anywhere.

We're Los Alamos.

Center Leader

Manuel Lujan Jr. Neutron Scattering Center

The selected candidate will be responsible for technical leadership, administrative management and operation of the Manuel Lujan Jr. Neutron Scattering Center at the Los Alamos Neutron Science Center (LANSCE). Duties include recruitment and development of scientists and staff; development and implementation of the scientific research program; and development of new scientific instrumentation for neutron scattering. Responsible for carrying out science-based stockpile stewardship experiments that address key materials issues of the nuclear weapons program. Responsible for implementing the DOE/Basic Energy Sciences User program, including interfacing with the program advisory committees and establishing research priorities for the Scattering Center.

Requires a Ph.D. in condensed matter science (solid state physics, materials science, chemistry or structural biology) or equivalent combination of education and experience. Must have a minimum of 10 years experience in neutron or photon scattering techniques at a reactor, pulsed spallation neutron source, or synchrotron x-ray source. Previous successful management experience preferred. Experience with accelerator-based pulsed spallation sources and Q clearance are highly desirable. Must possess demonstrated skills in communicating orally and in writing.

To formally apply for this position, interested candidates should send resume to Staffing Group, MS P286, **951181-95075**, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Individuals with disabilities needing reasonable accommodation should call (505) 667-8622. A Teletype Device for the Deaf (TDD) is available by calling (505) 665-5357. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

Los Alamos
NATIONAL LABORATORY

SCIENTIST BIOINFORMATICS

Affymetrix is developing innovative nucleic acid assays based on its novel DNA-chip technology and will commercialize this technology in the research instrumentation, clinical diagnostic and emerging genetic analysis markets.

The successful candidate will lead a growing program developing and testing critical algorithms necessary to implement new DNA probe array based assays. Applications range from sequence base calling, to expression monitoring, to the relationship between genotype and phenotype. The candidate will work closely with other groups including molecular biology, engineering, chemistry, and product development. The candidate must have a Ph.D. in mathematics, computer science or related field with 3+ years experience in data analysis. Additional experience in software development is necessary. The candidate should be familiar with the basic principles of biochemistry and molecular biology. The ability to work in a multidisciplinary environment applying problem solving skills, biological, and chemical insight to the analysis of complex data is key.

Please send your resume to: **Affymetrix, Human Resources Department-Job Code RL01, 3380 Central Expressway, Santa Clara, CA 95051. FAX: (408) 481-0422. EOE.**



ASSISTANT PROFESSOR Microbiology

The Department of Microbiology at the University of Illinois at Urbana-Champaign seeks candidates for a full-time tenure-track faculty position at the Assistant Professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and show exceptional promise in developing an active research program in Microbiology. Preference will be given to applicants with research interests in the physiology, biochemistry, or molecular genetics of microorganisms that further expand the Department's breadth of microbial diversity. Responsibilities include teaching undergraduate and graduate students. Starting date August 1996. Salary will be commensurate with experience.

The Department of Microbiology offers a supportive and collegial atmosphere and a strong graduate program. There are extensive interdepartmental interactions in microbial and eukaryotic cell and molecular biology, immunology, developmental biology, evolution, biochemistry, and biophysics. The University of Illinois at Urbana-Champaign offers an outstanding and exciting academic research environment including a Biotechnology Center and state-of-the-art facilities for hybridoma production, flow cytometry, electron microscopy, X-ray crystallography and computer analyses.

Applicants should submit a curriculum vitae, a description of research interests and future plans and have at least three letters of reference sent to:

**Abigail Salyers, Chair
Faculty Search Committee
Department of Microbiology
University of Illinois
131 Burrill Hall
407 S. Goodwin Avenue
Urbana, IL 61801
Telephone (217) 333-1736
FAX (217) 244-6697**

To ensure full consideration, applications should be received by December 15, 1995. Interviews may be conducted before the closing date, but no final decision will be made before that time.

*The University of Illinois is an
Affirmative Action-Equal Opportunity Employer.*

UNIVERSITY OF NEBRASKA MEDICAL CENTER



DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

FACULTY POSITIONS AVAILABLE

The Department of Biochemistry and Molecular Biology at the University of Nebraska Medical Center invites applications for two tenure-leading positions made available as part of a planned expansion and enhancement of current research programs. Preference will be given to candidates employing biochemical, structural and/or molecular biology approaches to investigate fundamental processes in the following areas:

- 1) Tissue-specific regulation of gene expression
- 2) Tissue or tumor targeting of DNA and development of tissue-specific viral vectors.

Outstanding applicants in related areas of research are also encouraged to apply. It is expected that appointments will be at the rank of ASSISTANT PROFESSOR. Qualifications include a Ph.D. or M.D. degree and relevant postdoctoral experience. The successful applicant will be expected to have or develop a funded, independent research program and to contribute significantly to the teaching programs of the department.

Collaborative research opportunities exist with the faculty at the UNMC/ Eppley Cancer Center, UNMC Transplant Center, University of Nebraska-Lincoln, Creighton University, and the V.A. Medical Center. UNMC is located in a metropolitan area of more than one-half million people with diverse business, educational, cultural and recreational opportunities.

Applicants should submit curriculum vitae, selected reprints, a brief description of current and future research interests and teaching experience and the names, addresses and telephone numbers of four references to:

**Dr. William G. Chaney, Chair
Biochemistry and Molecular Biology Search Committee
University of Nebraska Medical Center
600 South 42nd Street
Omaha, NE 68198-4525**

The deadline for receipt of applications is November 20. *UNMC is an Equal Opportunity/Affirmative Action Employer. Minorities and Women are Encouraged to Apply.*

Career Opportunities in Gene Therapy

Introgen is focused on the development of gene therapeutics for the treatment of cancer. Our initial clinical protocols use p53 gene replacement and K-ras antisense expression vectors to treat lung cancer and other human malignancies.

We are seeking talented, motivated individuals who are compatible with our aggressive clinical timelines. The following positions are available:

Senior Management

- Medical Director (M.D.) - to design and execute clinical protocols; must have completed a fellowship in oncology and have at least 2-3 years experience
- Vice President, Research and Development (Ph.D., M.D., M.D./Ph.D.)

Molecular Virology

- Adenoviral and retroviral vector development
- Scientist
- Post-doctoral Scientist

Protein Chemistry/Biochemistry

- Protein purification, cell culture, immunological techniques
- Post-doctoral Scientist (cell cycle or related field; basic molecular biology)
- Technician (at least one year of experience required)

Process Development

- Viral purification and/or formulation
- Scientist
- Post-doctoral Scientist or Senior Technician

Assay Development

- Cell-based bioassays, PCR, FACS, immunohistochemistry, other molecular techniques
- Scientist
- Post-doctoral Scientist or Senior Technician

Molecular Diagnostics

- Strong molecular background for analysis of clinical samples
- Senior Technician

Quality Control

- Analytical and biological assays
- Laboratory Supervisor (3-5 years biotech QC experience; supervisory experience a plus)

Please indicate the position desired on replies addressed to:

**Human Resources
Introgen Therapeutics, Inc.
8080 N. Stadium Dr., Suite 1200
Houston, TX 77054
FAX: (713) 797-9913**



OPPORTUNITIES IN ELECTROPHYSIOLOGY

Neurogen Corporation, a young dynamic company in the field of neuroscience, is currently expanding its staff in Electrophysiology. Neurogen scientists are developing novel therapeutics for neurological and psychiatric disorders.

Research Assistant/Associate I: This position involves developing and implementing assays for evaluation of drug effects on neurotransmitter systems using electrophysiological approaches in *Xenopus* oocytes, cultured cells, and brain slices. Applicants should possess a B.S. or M.S. degree in a relevant discipline. Previous laboratory experience is highly desirable.

Neurogen is located in Branford Connecticut, close to New Haven. We offer a stimulating intellectual environment and state of the art laboratory facilities. Neurogen has a comprehensive compensation program consisting of competitive salary, equity participation, 401K plan, health and medical programs, as well as relocation assistance.

Interested candidates should send resumes with cover letter to **Vivienne Formichella, Personnel Department, Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT 06405.**

Neurogen Corporation



MAYO CLINIC MAYO CANCER CENTER

Associate Director for Cancer Prevention and Control

The NCI-designated Mayo Cancer Center in Rochester, Minnesota, invites applications for Associate Director of Cancer Prevention and Control. Investigators with established research programs in cancer prevention and control and with demonstrated leadership skills are encouraged to apply. The Mayo Clinic provides an outstanding environment for conducting cancer prevention and control research, with particular strengths in epidemiology biostatistics and health services research. Interested candidates should submit a letter of application including a statement of research interests, curriculum vitae, bibliography, and list of references to:

James Ingle, M.D.
Associate Director for Clinical Research
Mayo Cancer Center
Mayo Clinic
200 First Street SW
Rochester, MN 55905

*Mayo Foundation is an affirmative action and
equal opportunity educator and employer.*

TWO FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS IOWA STATE UNIVERSITY

The department seeks to fill two tenure-track appointments at the level of assistant professor. The successful applicants will be expected to develop independent research programs that emphasize biochemical and/or biophysical aspects of important biological problems. Applicants should also have an interest in graduate and undergraduate teaching. Generous start-up funds and space in the new Molecular Biology Building will be available.

Applicants should send a curriculum vitae and description of research accomplishments and interests, and have three letters of recommendation sent to:

**Faculty Search Committee
Dr. Robert Thornburg, Chairman
Department of Biochemistry
and Biophysics
1210 Molecular Biology Building
Iowa State University
Ames, IA 50011**

To ensure full consideration, all materials should be received by January 15, 1996. *Iowa State University is an affirmative Action/Equal Opportunity Employer. Applications from women and minority candidates are especially encouraged.* For additional information about the Department and Iowa State University see: <http://molebio.iastate.edu/bbhtml/homepage.htm>

NEUROSCIENTIST, BIOCHEMIST, AND IMMUNOLOGIST POSITIONS AVAILABLE AT INTERDISCIPLINARY BIOPHARMACEUTICAL CORP.

Ergo Science Incorporated, a private, established biotechnology/biopharmaceutical company located in the Boston, Massachusetts area, is recruiting neuroscientists, metabolic biochemists, and immunologists to add to its diverse research staff. Our laboratory working structure offers a unique experience for highly motivated, curious, bench top scientists to interact closely with specialists outside their own area of expertise on common projects. This collaborative effort across scientific disciplines allows for an enriching educational experience which fosters personal and communal creativity and ingenuity. Scientists will interact with a multidisciplinary group of organic chemists, cell biologists, endocrinologists, immunologists, molecular biologists, biochemists, neuroscientists, physiologists, zoologists and chronobiologists to study two broad research areas: 1) circadian neuroendocrine regulation of metabolism relating to diabetes and atherosclerosis; and 2) circadian neuroendocrine regulation of immune function as it relates to tumor immunology and autoimmune disease.

Neuroscientist applicants must have a Ph.D. and proven research track record in circadian and hypothalamic neurophysiology. Candidates must also have expertise in molecular biology, electrophysiology recording, microdialysis, receptor assay and/or 2nd messenger analysis techniques to investigate circadian organiza-

tion of hypothalamic activities regulating metabolism or immunology.

Metabolic Biochemist applicants must have a Ph.D. and proven research track record and specific expertise in lipid and carbohydrate abnormalities associated with insulin resistance in liver and/or muscle tissue. The company is also seeking similarly qualified **Lipoprotein Biochemists** with expertise in hepatic lipogenesis, reverse cholesterol transport and/or atherogenesis.

Immunologist applicants must have a Ph.D. and specific expertise in tumor immunology with a strong background in tumor antigen biology, in immunotherapy for tumors, and cancer vaccines. Immunologists will interact with neuroendocrinologists and photochemists to develop new treatment strategies for cancer which couple neuroendocrine immunoenhancement with photodynamic therapy of neoplasms utilizing novel photosensitizers to treat metastatic disease. We are also seeking immunologists with expertise in the areas of autoimmune disease and inflammation.

Applicants should send a complete curriculum vitae, a brief description of research experience and names of three references to:

**Dr. Anthony H. Cincotta
Director of Research
Ergo Science Incorporated
100 First Avenue, 4th Floor
Charlestown, MA 02129-2051**



SCIENCE AND ENGINEERING FELLOWSHIPS IN JAPAN

The National Science Foundation (NSF) offers opportunities for research in Japanese universities, national research institutes, and corporate research facilities. Applicants must be U.S. citizens or permanent residents.

These fellowship programs are conducted in cooperation with the Center for Global Partnership (CGP) and other Japanese organizations. Awards are available for graduate students, postdoctoral fellows, and senior investigators for 3-24 month research visits in Japan for (deadlines are indicated in parentheses):

- Long and Medium Term Research (November 1, April 1)
- Short Term Visits for Cooperative Research (May 15)
- Dissertation Enhancement (November 1, April 1)
- Summer Programs for Graduate Students in Science and Engineering (December 1)

Awards are also available for Bilateral Seminars in Japan or the United States (May 15).

To apply for these programs, you may request the program announcement "International Opportunities for Scientists and Engineers" NSF 95-88 (Replaces NSF 93-51). This publication is available through STIS (Science and Technology Information System), NSF's online publishing system, described in NSF 94-10, "STIS Users Guide." To receive a paper copy of the guide, call the NSF Publications Section at 703-306-1130. For an electronic copy, send an E-mail message to stisserve@nsf.gov (Internet). Your message should read: get NSF9410.txt. The TDD number is (703) 306-0090.

Blood Research Institute



The Blood Center of Southeastern Wisconsin FACULTY POSITION

The Blood Research Institute of The Blood Center of Southeastern Wisconsin, an internationally recognized leader in blood-related research, is expanding its research activities, and is actively seeking outstanding individuals working in areas broadly related to the cell and molecular biology of: vascular cells, coagulation, hematopoiesis, immunology, or transplantation. *Individuals employing innovative approaches, including the use of transgenic and/or knockout mouse technology, stem cell gene therapy, and other novel molecular techniques are especially encouraged to apply.* Candidates should be grant-funded at the national level, currently hold the rank of Assistant or Associate Professor, or equivalent, and be willing to relocate into a spacious, modern, state-of-the art 50,000 sq.ft. facility surrounded by other nationally recognized scientist with active, well-funded research programs.

The Blood Research Institute is located on the campus of the Milwaukee Regional Medical Center and is adjacent to the Medical College of Wisconsin. Collaborative research and adjunct faculty appointments at the Medical College are strongly encouraged. *Significant opportunities for close affiliation with the developing Genetics Initiative Program are readily available.*

Interested, qualified individuals should send a CV with a cover letter explaining current research interests and expertise to: **Dr. Peter J. Newman, Chair, Genetics Initiative Search Committees, Blood Research Institute, The Blood Center of Southeastern Wisconsin, 638 N. 18th Street, Milwaukee, Wisconsin 53233-2194.** Deadline for receipt of applications is December 1, 1995.

The Blood Center of Southeastern Wisconsin is an equal opportunity/affirmative action employer. Minorities and women are encouraged to apply.



UNIVERSITY OF PENNSYLVANIA Department of Physiology School of Medicine

The Department of Physiology seeks to fill tenure-track positions, preferably at the Assistant Professor level, in the following research areas:

Ion Channels

Applications are encouraged from persons applying molecular biological and biophysical techniques to the study of ion channels.

Cellular Motility

Candidates combining biophysical and molecular approaches are especially encouraged to apply.

Transport Proteins

Applications are invited from persons combining structure-function analyses and molecular biological techniques in the study of membrane transport proteins.

Please send a *curriculum vitae*, a statement of research interests (specifying one of the areas listed), and two reprints or preprints. Also arrange to have three letters of reference sent to:

**Search Committee
Department of Physiology
University of Pennsylvania
Philadelphia, PA 19104-6085**

Applications from female and minority candidates are particularly encouraged.

The University of Pennsylvania is an Affirmative Action/ Equal Opportunity Employer.



DEPARTMENT OF HUMAN GENETICS MEMORIAL SLOAN-KETTERING CANCER CENTER

The Department of Human Genetics at Memorial Sloan-Kettering Cancer Center is inviting applications for a faculty position at a senior level. This new Department has newly refurbished research laboratories on a campus with established outstanding basic research and clinical departments. We are particularly seeking a scientist with experience in positional cloning and interest in applying this experience to the area of cancer genetics.

Investigators (Ph.D., M.D., M.D./Ph.D.) who have a record of productive research in relevant areas are invited to send their curriculum vitae and bibliography, along with the names of three references to:

**Lucio Luzzatto, M.D.
Chairman, Department of Human Genetics
Memorial Sloan-Kettering Cancer Center
1275 York Avenue, New York, NY 10021**

An Equal Opportunity /Affirmative Action Employer



A UNIQUE RESEARCH ENVIRONMENT WITH UNPARALLELED RESOURCES is recruiting scientific staff members interested in using the tools of mouse genetics in biology to pursue independent research programs in:

- Cancer
- Complex Traits
- Computational Biology
- Immunology/Hematology
- Developmental Biology
- Genome Organization
- Metabolic Diseases
- Neurobiology

Applicants should hold a doctorate in a related field and have completed postdoctoral training. Letters of inquiry should include: curriculum vitae, statement of research interests, and names of three references. To apply or request further information, contact: **Ms. Rita Poirier, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609 Phone: 207-288-6181 FAX 207-288-5079; e-mail: rsp@aretha.jax.org EOE/AA Employer**

FACULTY POSITION IN VIROLOGY

The Department of Microbiology and Immunology invites applicants for a tenure-track position in virology. Preference will be given to candidates at the Assistant Professor level, but outstanding scientists at a more senior level are encouraged to apply. Applicants committed to a research program that examines fundamental problems in virus-host interactions or viral pathogenesis are preferred, but all areas of virology will be considered.

The successful candidate will contribute to and benefit from association with 1) a strong group of interactive investigators within the department, whose major focus is microbial pathogenesis, and 2) a rich network of collaborators in other departments throughout the medical school and university. Excellent start-up support and laboratory space are available. Applicants should have a well-defined research program with strong potential for external funding and value excellence in teaching.

Send a statement of research plans, teaching interests, curriculum vitae and bibliography and arrange to have at least three letters of reference sent to: **Chairperson, Viral Pathogenesis Search Committee, Department of Microbiology, 5641 Medical Sciences II, University of Michigan, Ann Arbor, Michigan 48109-0620. Applications should be received by December 31, 1995.** Women and underrepresented minority candidates are especially encouraged to apply. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.



The University of Michigan



COLBY

Plant Biologist

Colby College is seeking a Plant Biologist to fill a tenure-track position as Assistant Professor of Biology to begin September, 1996. Women candidates will be considered for a Clare Boothe Luce endowed chair that provides dedicated annual research funds and salaries for undergraduate research assistants. Candidates should have a Ph.D., experience working with undergraduates in the laboratory or classroom, and a strong commitment to undergraduate education. Applicants are sought who have broad training in the botanical sciences and special interest and expertise in the cellular and molecular aspects of plant biology. Courses taught will include courses in the candidate's discipline, a course in plant physiology, and team teaching in the introductory course in some years. An active research program, including supervision of undergraduate research, will be expected. Familiarity with liberal arts colleges and/or post-doctoral training are desired.

Please submit a letter of application, statement of teaching interests and experiences, statement of research interests, curriculum vitae, reprints of up to three publications, undergraduate and graduate transcripts, and three letters of recommendation to: **Professor F. Russel Cole, Chair, Department of Biology, Colby College, Waterville, ME 04901.** Application review will begin after December 15, 1995. *Colby College is an Affirmative Action/Equal Opportunity Employer, and encourages applications from minorities and women.*

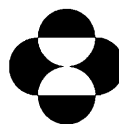
BIOINFORMATICS RESEARCH ANALYST

Merck Research Laboratories, in West Point, Pennsylvania, a world leader in the discovery and development of pharmaceutical and biological products, is expanding its Bioinformatics department to address the need to integrate genome information into the drug discovery process. The Merck bioinformatics department has an established history of research success within the pharmaceutical industry, and is currently coordinating and developing the Merck Gene index as an aspect of the Merck/WashU EST sequencing initiative.

The selected candidate will work as an integral member of drug discovery project teams providing expertise in the areas of sequence analysis and genome informatics. A key concentration will be on the use of sequence information for new gene discovery, in conjunction with the developing Human Genetics program. Other opportunities include working with the bioinformatics deployed staff to integrate bioinformatics research into broad project areas, and independent research in informatics. The successful candidate will be an expert at the application of sequence and genome analyses to biological problems, and will interact with the existing software development group to develop new analyses and systems specific to pharmaceuticals research. A Ph.D. in Biochemistry, Molecular Biology or equivalent, Genetics, with 3 to 5 years post-doctoral experience is desired. Excellent communications skills, the ability to function effectively in a multi-disciplinary environment, and experience performing sequence analysis are essential. A background in genome sequence and expressed sequence analysis is desirable.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send curriculum vitae with cover letter to: **Personnel Manager, Ad #B-39, MRL Human Resources, WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. EEO/AA/V/Employer.**



MERCK

Research Laboratories



Programme Leaders

1. **Production Systems Research, Vacancy No. INT/004/95**
2. **Animal Health Improvement, Vacancy No. INT/005/95**

General: The International Livestock Research Institute (ILRI), founded in 1994, incorporates the former International Laboratory for Research on Animal Diseases (ILRAD, Kenya) and the International Livestock Centre for Africa (ILCA, Ethiopia). ILRI, a nonprofit-making institute, is sponsored by the Consultative Group on International Agricultural Research (CGIAR). The global mandate of ILRI is to undertake research to enhance the role of livestock in sustainable, agricultural production systems in Africa, Asia and the Latin American/Caribbean region. Six programme areas address Conservation of Biodiversity, Production Systems Research, Utilisation of Tropical Feed Resources, Animal Health Improvement, Livestock Policy Analysis and Strengthening National Agricultural Research Systems. ILRI employs approximately 80 internationally recruited scientists, 20 postdoctoral associates and 800 programme support staff based in the institute's two campuses in Nairobi, Kenya and Addis Ababa, Ethiopia and at field sites in Niger, Nigeria, Burkina Faso and Zimbabwe. In 1996 scientists will be posted in Asia and Latin America.

Positions: ILRI seeks Leaders for the **Production Systems Research** and **Animal Health Improvement** programmes. The successful candidates will, in addition to continuing their own research, be responsible for (a) managing priority setting and development of project and programme plans, budgets and reports, (b) managing scientific and support personnel contributing to the programme and (c) serving on the Programme Management Committee chaired by the Director General to evaluate new project proposals and annual work plans and allocate resources among programmes.

Qualifications: The Leader of the **Animal Health Improvement Programme**, who will be based in Nairobi, will be a scientist with an established reputation in research on tropical veterinary diseases. Research management experience in developing countries will be expected. Animal health improvement research at ILRI investigates the genetics of tropical disease resistance and aims to develop and implement use of tropical disease control technologies. ILRI's current research in these areas emphasises vaccine development for tick-borne diseases of livestock (focussing on East Coast fever caused by *Theileria parva*), novel control methods for trypanosomiasis (including exploitation of genetic resistance of cattle) and the genetic resistance of small ruminants to helminthiasis. Research is conducted primarily in modern laboratory facilities at the Nairobi Campus and at field sites in East and West Africa. There are extensive links with biomedical and other research laboratories in developed countries. Managing these linkages, and approximately 35 senior and postdoctoral scientists and 190 technical staff, will be major elements of the Programme Leader's responsibilities. The Programme Leader will be expected to lead expansion of the Animal Health Programme to regions outside Africa.

The Leader of the **Production Systems Research Programme**, who will be based in Addis Ababa, will have an established record of successful production systems research and research management in developing countries. The Production Systems Research Programme currently includes two components: (a) model-based systems analysis and impact assessment, and (b) field based crop-livestock systems research. These research areas are addressed by interdisciplinary teams of biologists, socioeconomists and environmentalists based in West Africa (Niger and Nigeria) and East Africa (Kenya and Ethiopia). Beginning in 1996. The Programme Leader will lead development of production systems research in Asia, Latin America and North Africa.

Applicants for both positions should have a doctorate in an appropriate discipline, a minimum of ten years postdoctoral research experience and a successful background in research management. Qualifications and experience should be supported by a proven record of scientific achievement. The successful candidate will have demonstrated ability in the preparation and presentation of research budgets, plans, annual and other reports, possess excellent verbal and written communication skills, and have experience of working in an interdisciplinary and multicultural environment. Candidates should be fluent in English; skills in other languages, particularly French, will be an advantage.

Conditions: The initial contract will be for three years and may be renewed. ILRI offers internationally competitive terms of service. Salaries are paid in US dollars. Relocation, housing, annual leave travel and education allowances are provided in addition to generous pension and insurance benefits. The large Nairobi and Addis Ababa campuses are both set in attractive surroundings on the outskirts of the cities within a short drive to shops, restaurants and schools. Dining and sports facilities, including swimming pool, squash and tennis courts, are located on both sites. Dependent upon availability, on-site accommodation in fully furnished modern houses may be offered. ILRI campuses also house large libraries subscribing to several hundred journals in both paper and electronic formats; the latter are accessed by all staff through an extensive LAN. Internet access is available in Nairobi and will be provided in Addis Ababa.

Application: Applicants should send a statement of interests, a curriculum vitae, photocopies of supporting documents, date of availability and the names and addresses (including telephone/fax/e-mail) of three referees who are knowledgeable about the professional qualifications for the position to: Director General, ILRI, PO Box 30709, Nairobi, Kenya; telephone: 254 2 630743; fax: 254 2 631499; e-mail: ILRI-Kenya@cgnnet.com. Screening of applicants for both positions will begin 25 October 1995 and continue until the positions are filled.

Systems Analyst: Vacancy No. INT/003/95

Position: ILRI seeks a **Senior Systems Analyst** to work in an interdisciplinary impact assessment team. The team of international research scientists currently is identifying the socioeconomic, agroecological and biophysical constraints to, and opportunities for, increased livestock production, and assessing the ex-ante and ex-post impacts of their alleviation, in particular through the application of new technologies and other research-generated interventions.

The successful candidate, who will be based in Nairobi, Kenya, will be responsible for research on priority setting within the institute. This will involve ex-ante and ex-post quantitative evaluation of the social, economic and environmental impacts of different constraints to livestock production on a global basis and predicting the returns to research into these constraints in terms of enhanced agricultural productivity, poverty alleviation and natural resource management.

Qualifications: Applicants should have a doctorate in a social or natural science discipline and a minimum of five years experience in quantitative modelling and agricultural systems analysis. Qualifications and experience should be substantiated by a proven record of scientific achievement. Candidates experienced in quantifying the impacts of new technologies in human welfare and environmental terms will be preferred. Excellent verbal and written communication skills and a demonstrated ability to work in an interdisciplinary and multicultural environment are required. The successful candidate will be fluent in English; skills in other languages, particularly French, will be an advantage.

Conditions: The initial contract will be for three years and may be renewed. ILRI offers internationally competitive terms of service. Relocation, housing, annual leave travel and education allowances are provided in addition to generous pension and insurance benefits.

Application: Applicants should send a statement of interests, curriculum vitae, photocopies of supporting documents, date of availability and the names and addresses (including telephone/fax/e-mail) of three referees who are knowledgeable about the professional qualifications required for the position to: Director General, ILRI, PO Box 30709, Nairobi, Kenya; telephone: 254 2 630743; fax: 254 2 631499; e-mail: ILRI-Kenya@cgnnet.com. Screening of applicants will begin 25 October 1995 and continue until the position is filled.

次のチャレンジはもう始まっている。

バイエル薬品中央研究所は“世界のバイエル”の新たな核になる。
そして、その豊かな研究開発環境のもとで生まれる新薬は
世界へと広がっていくことだろう。



海外留学生セミナー

【会場】 ニューヨーク：1995年11月24～26日(予定)
東京 / 大阪：1995年12月、1996年1月
【資格】 下記関連分野を研究されている方で、1996年以内に日本以外の大学を卒業予定の方、修士以上歓迎 日本語・英語必須
【申込】 履歴書・研究概要を日本語・英語で作成し【問合せ先】宛送付して下さい。
帰国日明記 書類送考の上、セミナーのご案内をします。
※開催国内の旅費を一部援助します。

研究員募集中

【分野】 アレルギー、自己免疫疾患、薬物動態、及び有機合成化学分野【勤務地】 関西学研都市近鉄奈良駅より車10分 入社日応談、日本語・英語必須、詳細は下記までお問い合わせ下さい。
【問合せ先】 大阪市淀川区宮原3-5-36 新大阪第2森ビルバイエル薬品(株)リクルーティング⑤係 〒532 TEL.06(398)1145 担当/野本 三郎(ののほん さん)を弊社の社員及び応募者は全て公平に扱われます。

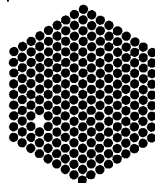


バイエル薬品株式会社



CROP PHYSIOLOGIST POSITION BEAN PROGRAM, CIAT HEADQUARTERS

CROP PHYSIOLOGIST. The International Center for Tropical Agriculture (CIAT, its Spanish acronym) seeks a crop physiologist to be based at its headquarters in Cali, Colombia. Under the supervision of the leader of CIAT's Bean Program, this person will work with a multidisciplinary team to increase the productivity of common bean (*Phaseolus vulgaris*), with emphasis on crop improvement. Key aims of the research will be to improve the adaptation of beans to water deficit and low soil fertility, elucidate photoperiod/temperature interactions, and increase yield potential. The physiologist will identify plant traits and mechanisms, with a view to improving breeding methodologies, and continue on-going work with crop simulation models, such as BEANGRO. In addition to working closely with bean breeders at headquarters, he/she will conduct research and provide technical assistance in support of outreach staff in Latin America and Africa. The physiologist will also produce technical reports and training materials, strengthen the research capacity of national programs through training and collaborative research, cooperate with other advanced research organizations, and participate in selected cross center activities. Requirements are a Ph.D. in the biological or agricultural science, with specialization in crop stress physiology; familiarity with plant breeding and genetics; proficiency in statistical analysis and computers; willingness to travel internationally; and an ability to write and speak fluently in English. A knowledge of Spanish is desirable. CIAT offers an internationally competitive salary paid in US dollars, plus a benefits package. Applicants should send their curriculum vitae and the names of three referees (with addresses and telephone, fax, and/or email numbers) to Dr. Rupert Best, Acting Deputy Director General for Research, CIAT, A.A. 6713, Cali, Colombia (Fax: 57/2/445-0273; e-mail: R.Best@CGNET.COM). The closing date for this position is 15 November 1995.



EMBL

COORDINATOR OF STRUCTURAL BIOLOGY

EMBL Heidelberg/Hamburg

EMBL has a major commitment to the study of Structural Biology in its Headquarters Laboratory at Heidelberg. The methods used include X-ray Crystallography, Electron Microscopy, and N.M.R. Spectroscopy in conjunction with theoretical studies. EMBL also has a well established Outstation at Hamburg which is associated with the DESY synchrotron and provides an excellent environment for crystallographic and other specialised structural studies. In addition, the EMBL Outstations at Grenoble (F) and the EBI at Hinxton Hall (U.K.) work very closely with the Structures Programme. There are abundant opportunities for interaction with the other research programmes in Heidelberg.

EMBL is now seeking an outstanding individual who will become Coordinator of the Structural Biology (including Biocomputing) Programme in Heidelberg, Head of Outstation at Hamburg and carry out an independent research programme. The successful candidate will be based in Heidelberg and will be assisted in Hamburg by a Deputy Head of Outstation. In addition, the appointee will chair a steering committee which will include the Head of Outstation in Grenoble, in which the overall policy on structural studies at EMBL will be coordinated.

This is a senior position with both scientific and management responsibilities, and the applicants' experience should reflect their suitability for both aspects. The appointee will have overall responsibility for coordinating the Programme at Heidelberg and directing the Outstation at Hamburg, and will report directly to the Director General.

EMBL is an inclusive, equal opportunity organisation.

Deadline for applications is 15 January 1996.

For further information please contact

Professor Frank Gannon, e-mail: Gannon@EMBL-Heidelberg.de

or Fax: +49 6221 384 879, Tel: +49 6221 383 031 or

Professor Keith Wilson, e-mail: Keith@EMBL-Hamburg.de

or Fax: +49 40 89902 149, Tel: +49 40 89902 111

To apply please send your CV or write for an application form, quoting ref. no. 95/42 to:

Head of Personnel, EMBL, Postfach 10.2209, D-69012 Heidelberg, Germany

Fax: +49 6221 387 555 e-mail: jobs@EMBL-Heidelberg.de

University of Newcastle upon Tyne

**CHAIR OF MARINE DESIGN
AND CONSTRUCTION
AND
LLOYD'S REGISTER CHAIR OF
OFFSHORE ENGINEERING**

Applications are invited for the **Chair of Marine Design and Construction** and the **Lloyd's Register Chair of Offshore Engineering**. Both appointments will be held in the Department of Marine Technology within the Faculty of Engineering.

Applicants for the **Chair of Marine Design and Construction** should be professionally qualified engineers with a fundamental understanding of engineering as applied to the broad spectrum of marine technology. This should be augmented by first hand experience of the industry in any of the following areas: surface ship design and/or construction; aspects of floating body design and development; marine structures.

Applicants for the **Lloyd's Register Chair of Offshore Engineering** should be professionally qualified engineers with wide knowledge of all aspects of offshore technology, its demands and its future developments. Applications will be welcomed from candidates with specific experience in the design, development and construction of surface and subsea systems.

Candidates for both Chairs must be able to demonstrate an established record of innovation and achievement, together with the academic and managerial leadership skills necessary to take a prominent role in the co-ordination of the Department's research activities and the development of its long term research strategy. It is expected that one of the appointees will assume the headship of the Department in due course.

Salary will be at an appropriate point in the professorial salary range.

Further particulars may be obtained from the Registrar, University of Newcastle, 6 Kensington Terrace, Newcastle upon Tyne NE1 7RU, with whom applications, together with the names and addresses of three referees, should be lodged not later than 25 October 1995. Please quote ref: 2606/S.



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Molecular Biosystems, Inc. a leader in the development of ultrasound imaging agents, currently has employment opportunities available for the following areas.

Technical Development Scientist

Responsible for leading group of scientists with responsibilities for supporting current manufacturing operations and effecting technology transfer from pilot plant to manufacture. Must have aseptic processing experience, working knowledge of GMPs and safety awareness in the pharmaceutical industry. BS/MS with up to 15 yrs experience or PhD w/up to 5 yrs development experience. XInt communication, interpersonal skills and problem solving ability.

Product Development Scientist

Resp for analytical methods development & validation for ultrasound contrast agents. PhD in Analytical Chemistry w/5+ yrs bioanalytical chemistry experience in the pharmaceutical industry. Experience in protein biochem a must. Must have experience w/contributing to regulatory submissions, GMPs & GLPs.

Please submit resume to: **Molecular Biosystems, Inc. HR Dept. A36-96, 10030 Barnes Canyon Road, San Diego, CA 92121. EOE**



**Center for Molecular Medicine
Institute of Biotechnology
Department of Cellular and Structural Biology
The University of Texas Health Science Center at San Antonio**

The Center/Institute invites applications for two tenure-track faculty positions at the Assistant Professor level. While outstanding researchers in all areas of eukaryotic molecular and cellular biology will be considered, expertise in the following fields is of particular interest: extracellular matrix, adhesion molecules, growth factors and receptors, and signal transduction. Applicants should have a Ph.D. or M. D. degree with sufficient postdoctoral experience. The positions provide exceptionally competitive salaries, generous start-up funds and laboratory space in the highly interactive and modern research environment provided by the Center, which is housed in the recently constructed Institute of Biotechnology (see Nature, Vol. 357, No. 6380).

Interested individuals should send a curriculum vitae, a statement of research accomplishments and objectives, reprints of recent articles and names and addresses of three references preferably by December 1, 1995 to:



**Dr. Paul D. Gardner
Center for Molecular Medicine /Institute of Biotechnology
The University of Texas Health Science Center
at San Antonio
15355 Lambda Drive
San Antonio, Texas 78245-3207**

The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.

STRUCTURAL BIOLOGY PROGRAM

Mount Sinai School of Medicine.

A structural biology program centered on X-Ray Crystallography and high resolution NMR Spectroscopy is being established at the Mount Sinai School of Medicine.

Mount
Sinai

The program will be housed in Mount Sinai's new research facility, and consist of several independent research groups comprising senior and junior faculty with research interests in these areas. The specialized and general research laboratories, including computation for the structural biology program will occupy a floor of the new building. Substantial support is available for equipment and start up costs. We seek candidates with outstanding records of accomplishment for **faculty positions** at the ranks of **Professor, Associate Professor** and **Assistant Profes-**

sor. Applicants with research interests and expertise in the study of biomolecular structure and function should demonstrate exceptional promise for active independent research programs, and where appropriate, documented ability to attract and maintain peer-reviewed grant support.

Please send applications including curriculum vitae, a statement of background and future research plans, and the names of at least three references to: **Dr. Harel Weinstein, Chair, Structural Biology Committee, Department of Physiology and Biophysics, Box 1218, Mount Sinai School of Medicine, One Gustave Levy Place, New York, NY 10029-6574.** An equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

The Mount Sinai Medical Center of New York

ASSISTANT/ASSOCIATE PROFESSOR (2)

PHARMACEUTICS AND PHARMACEUTICAL CHEMISTRY THE OHIO STATE UNIVERSITY



The Division of Pharmaceutics and Pharmaceutical Chemistry invites applications for two (2) tenure-track positions at the assistant/associate professor level. Applicants should have a Ph.D. degree in pharmaceutics, pharmaceutical chemistry, or a closely related field of biomedical or molecular life sciences research. Postdoctoral experience is desirable. Preference will be given to applicants who have a professional degree in pharmacy and teaching experience, especially in a college of pharmacy. To complement existing strengths in the division, a research program is preferred at the molecular or cellular level in the areas of targeted drug delivery, gene therapy, controlled release, and drug delivery systems.

Review of applications will begin February 1, 1996; the position becomes available October 1, 1996. Applicants should provide a letter of application, a curriculum vitae, the names and addresses of three references, and a statement of research interests and professional goals. Please contact:

Dr. Sylvan G. Frank
Chair, Search Committee
Division of Pharmaceutics
and Pharmaceutical Chemistry
College of Pharmacy
The Ohio State University
500 West 12th Avenue
Columbus, OH 43210-1291

The Ohio State University is an Equal Opportunity, Affirmative Action Employer. Women, minorities, Vietnam-era veterans, disabled veterans and individuals with disabilities are encouraged to reply.

RESEARCH SCIENTIST Fermentation Group

NSC Technologies, a business unit of Monsanto, is committed to developing fine chemicals for the life sciences industry. We have an exceptional opportunity for a Research Scientist in our Fermentation Process Development Group.

The individual in this position will be responsible for applying strain improvement, culture characterization, process development and scale-up techniques to independently formulate scientific project plans. Team oriented strategies will be directed toward producing targeted compounds by fermentation and/or bioconversion processes. Project plan execution will utilize skills in managing interactions among various disciplines and coordinating activities at manufacturing facilities.

The desired candidate will have a Ph.D. in Microbiology/Biochemistry or related field with 2-3 years of industrial experience or an MS with 5+ years of industrial experience. Practical knowledge of fermentation processes and the application of biotechnology to the production of key metabolites are also required. Supervisory experience is essential.

We offer an excellent salary and benefits package, as well as career challenges and rewards at our R&D facility in suburban Chicago. For consideration, please send your resume to **Human Resources, Dept. KR-RSF, NSC Technologies, 1751 Lake Cook Road, Deerfield, IL 60015-5239.** An Equal Opportunity Employer.

Monsanto

Allegheny-Singer Research Institute **Medical College of Pennsylvania and Hahnemann University**

Director, Genetic Core Resource Laboratories

The Department of Human Genetics of the Allegheny-Singer Research Institute (ASRI) in Pittsburgh is establishing new facilities for nucleotide sequencing, oligonucleotide synthesis, cell culture and preservation, linkage analysis, and informatics. These laboratories will serve as resources for the Department, the other research centers within ASRI, all of the basic science departments of the Medical College of Pennsylvania and Hahnemann University in Pittsburgh and Philadelphia, and the multiple tertiary-care, academic hospitals of the Allegheny Health, Education and Research Foundation.

The Director will be responsible for the overall administration of the component units, the recruitment, training and retention of technical and administrative staff, quality control of the operations, marketing services, and assisting biomedical investigators with a wide range of research initiatives in using core genetic laboratory services appropriately.

The successful candidate will:

- have an earned doctorate in a biologic science or medicine;
- have a record of current, independent, productive investigation in human genetics, cell biology or molecular biology;
- have demonstrated ability to organize and administer the scientific, technical, personnel and financial aspects of laboratory investigation;
- have excellent communication, teaching and interpersonal skills; and,
- be well versed in computer hardware and software, including genetic databases, nucleotide sequence analysis, linkage analysis, and management programs.

The Director will be eligible for:

- an excellent salary and benefit package, laboratory space for independent research and access to internal ASRI research funding; and,
- appointment as a tenure-track faculty member in the Department of Human Genetics in the university, at a level commensurate with accomplishment.

The position is currently available. Interested applicants should send in confidence a statement of interest, current research program and funding and a curriculum vitae to: **Reed Edwin Pyeritz, M.D., Ph.D., Chair, Department of Human Genetics, ASRI, 320 E. North Ave., Pittsburgh, PA 15212-4772.**

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The Department of Biological Sciences
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ARIAD Pharmaceuticals combines the most recent advances in molecular cell biology with combinatorial chemistry and structure-based drug design to develop small-molecule drugs that selectively target intracellular communication pathways. We are seeking highly motivated and team-oriented scientists to participate in our newly expanded programs in signal transduction drug discovery and gene therapy.

PH.D. RESEARCH SCIENTISTS CELL BIOLOGIST

The successful candidate will direct the cell-based assay group, which is responsible for the evaluation of novel compounds in a variety of cellular assays, development of new assays, and optimization of existing assays for high-throughput screening. The position requires 3-5 years of relevant industry and/or academic experience and knowledge of mammalian and yeast cell culture. Prior industry experience, especially as part of a cellular assay group, would be beneficial. Dept. MZ-CB.

PROTEIN BIOCHEMIST

The successful candidate will direct the protein purification and production group, which is responsible for fermentation and purification of recombinant proteins for use in *in vitro* assays, X-ray crystallography and NMR spectroscopy. The position requires 3-5 years of relevant industry and/or academic experience, including large-scale purification of recombinantly expressed proteins. Prior industry experience, especially working with structural biology or high-throughput screening groups, would be beneficial. Dept. MZ-PP.

PROTEIN ENZYMOLOGIST

The successful candidate will be responsible for establishing assays to screen for selective tyrosine kinase inhibitors, performing kinetic analysis of inhibitors, and production of purified enzymes. The position requires 1-3 years of relevant industry and/or academic experience. Dept. MZ-EZ.

RESEARCH ASSOCIATES MOLECULAR BIOLOGIST

The successful candidate will join the gene therapy group, which is developing technology for small-molecule control of gene expression in the context of gene therapy. Responsibilities include DNA sequencing, mammalian cell culture, transfection, and enzymatic and ligand-binding assays. The position requires a Bachelor's degree and at least 1 year of laboratory experience in recombinant DNA methodologies or mammalian cell culture. Dept. MG-RA.

PROTEIN BIOCHEMIST

The successful candidate will join the protein purification and production group. Responsibilities include purification of proteins for structural analysis and binding assays. The position requires a Bachelor's degree and at least 1 year of laboratory experience in protein biochemistry. Dept. MZ-RA.

MEDICINAL CHEMIST

The successful candidate will join the new lead discovery group. The position requires a B.S. or M.S. in chemistry and at least 1 year of experience in organic synthesis. Prior pharmaceutical experience in medicinal chemistry would be desirable. Dept. DH-RA.

SCIENTIFIC COMPUTING AND BIOINFORMATICS

The successful candidate will be responsible for development, implementation, and support of scientific computing systems. This includes management of robotics and laboratory automation systems and support of the TCP-IP network, as well as database management and software development for combinatorial chemistry. The position requires experience in bioinformatics, UNIX, and TCP-IP. Prior industry experience, especially in the area of high-throughput screening and robotics, would be highly desirable. Dept. EA-SCB.

ARIAD offers a competitive salary and benefits package including incentive stock participation. Interested individuals should send a curriculum vitae to: ARIAD Pharmaceuticals, Inc., Human Resources, Dept. _____, 26 Landsdowne Street, Cambridge, MA 02139. ARIAD is an equal opportunity employer.

CELL GENESYS

CHALLENGING THE LIMITS

Cell Genesys is challenging the limits of what has previously been possible in human therapeutic product development.

As a leading research and development company, we are genetically engineering the human immune system to create innovative therapies for serious diseases. Using gene therapy technology to produce human T cell therapies and transgenic technology to produce human monoclonal antibodies, our scientists are developing new approaches to the treatment of viral infections, cancer and other diseases. If you'd like to help advance our gene therapy technology, we invite you to join us and contribute to our efforts in the beautiful San Francisco Bay Area.

CELL CULTURE - ASSOCIATE SCIENTIST

You will be responsible for optimizing and selecting genetically engineered and vector-producing cell lines. This will involve working closely with Molecular Biology and Process Development to select cell lines with optimum production characteristics. You will also support cell banking activities and generate reports for regulatory submission. Along with a Ph.D., you will need 1-3 years in a relevant industrial setting with a proven background in cell culture and cell line selection and familiarity with molecular biology.

ASSAY DEVELOPMENT - SCIENTIST

You'll implement, perform and validate cellular immunological assays, including CTL assays and lymphokine release assays, for product development. We require a Ph.D. in cell biology, immunology or a related area with 2-4 years of experience performing cellular immunology assays with a biotechnology company. We will also consider those with a B.S./M.S. degree and 4-8 years' cellular immunology experience. Strong analytical abilities, plus good problem-solving and communications skills are musts.

IMMUNOLOGY - SR. RESEARCH ASSOCIATE

As a core member of our cellular immunology group in the Xenotech Division, you will develop and implement various *in vitro* immunological and biological assays for characterization of monoclonal antibodies. We require a B.S. or M.S. degree in immunology, cell biology or related field with at least 5 years' research experience. Demonstrated skills and experience in cell culture, immunological and bioassay development, cell line analysis, and basic molecular biology techniques are also required. Prior animal handling background and experience developing animal models of disease are preferred.

Cell Genesys is dedicated to developing important human healthcare products in two areas: gene therapy and human monoclonal antibodies. We are equally committed to those who make up our team and provide our employees with excellent salaries and a full benefits package. To learn more, please forward your CV/resume/written inquiries to: **CELL GENESYS, INC., Attention: Human Resources, 322 Lakeside Drive, Foster City, CA 94404.** We are an equal opportunity employer.



CELL GENESYS

PENNSTATE



University Park
Campus

DEAN OF THE COLLEGE OF AGRICULTURAL SCIENCES

The Pennsylvania State University is seeking candidates for the position of Dean of the College of Agricultural Sciences. The Dean serves as principal academic leader and chief executive officer of the College and reports directly to the Executive Vice President and Provost of the University. The Dean is responsible for planning, budgeting, implementation, evaluation of programs of resident instruction, research and extension.

Candidates should have a demonstrated competence in a field of study commonly included in a College of Agricultural Sciences with credentials appropriate for appointment as professor in his or her discipline. The candidates should have a thorough familiarity with the philosophy and responsibilities of a large, research-oriented, land-grant institution. Prior experience in academic administration with responsibility for personnel, programs, and/or resources and a breadth of understanding and creative imagination necessary to develop policy in keeping with the multiple missions of the College are required. In addition, a wide acquaintance with agriculture and awareness of the College's responsibilities to the agricultural and food industries, forestry and many allied constituencies in dealing with their economic, social, and technical problems is required. Salary will be commensurate with experience and qualifications.

The Pennsylvania State University is the land-grant University of the Commonwealth of Pennsylvania. It is composed of the University Park campus and 22 other campuses throughout Pennsylvania. The College of Agricultural Sciences, a leading college of agriculture in the nation and one of 10 colleges at University Park, had a system wide enrollment of 2,937 undergraduate students and 469 graduate students in Fall Semester 1994. The College has 12 academic and four regional units and is involved in both domestic and international programs. A full-time equivalent faculty and staff of 1,231 persons serve at University Park and throughout the Commonwealth supported by a budget of approximately \$90 million dollars.

Please send nominations, applications, and inquiries to the following address. The deadline for applications and nominations is November 1, 1995, or until qualified candidates are identified.

Dr. David A. Shirley
Chair of the Search Committee for the Dean
of the College of Agricultural Sciences
The Pennsylvania State University
201 Old Main, Box SCI
University Park, PA 16802

An Affirmative Action/Equal Opportunity Employer.
Women and Minorities Encouraged to Apply.

Allegheny-Singer Research Institute

Medical College of Pennsylvania and Hahnemann University

DIRECTOR, MOLECULAR HEMATOLOGY

The Allegheny-Singer Research Institute (ASRI) in Pittsburgh is establishing a major research focus in the molecular genetics of human hematologic disorders. The Director will be an accomplished investigator looking to build a new program, eventually addressing etiology, pathogenesis, epidemiology and treatment. Internal funding and an endowment are available to support this program. Recruitment of junior faculty is possible. Newly built and equipped laboratory space within the Department of Human Genetics will house this program. The laboratory will have close interactions with the Cancer Center and the Hematology Division of the Allegheny General Hospital, the University, and the affiliated institutions of the Allegheny Health, Education and Research Foundation. The successful applicant will be eligible for appointment at the Associate or Full Professor level, with tenure, in the Department of Human Genetics and the relevant clinical department in the Medical College of Pennsylvania and Hahnemann University. The Director will be expected to train graduate students in the interdepartmental molecular and cell biology program and to attract substantial external research funding.

The position is currently available. Interested applicants should send in confidence a statement of interest, current research program and funding and a curriculum vitae to: **Reed Edwin Pyeritz, M.D., Ph.D., Chair, Department of Human Genetics, ASRI, 320 E. North Ave., Pittsburgh, PA 15212-4772.**

ASRI is an equal opportunity employer.



ALLEGHENY-SINGER
RESEARCH INSTITUTE



Structural Biology Positions University of California, Davis

UC Davis is expanding research and teaching programs in the area of structural biology. The coordinated recruitment of 4-5 new faculty members is expected over the next 2-3 years. Two tenure-track positions at the assistant professor level are now open for recruitment, one in the Department of Chemistry and one in the Section of Molecular and Cellular Biology, Division of Biological Sciences. Each position has been advertised separately and a brief summary is provided below. Candidates are encouraged to apply for either or both position(s) and are expected to have exceptional promise for active, independent research programs and for teaching.

Department of Chemistry: X-ray crystallographer with research interests in the area of biological macromolecules, broadly defined to include proteins, nucleic acids, membrane assemblies, and other complex natural structures. Applicants must send a curriculum vitae, a summary of research objectives, and the names, addresses, and FAX numbers of three references to: **Faculty X-Ray Recruitment Committee - B3, Room 108, Chemistry Dept., University of California, Davis, CA 95616.**

Section of Molecular and Cellular Biology: Structural biologist interested in solving fundamental problems in biology using high resolution structural techniques. Candidates could complement the Section's strengths in protein-nucleic acid interactions, enzymology, the cytoskeleton and cell function, signal transduction, and molecular mechanisms of development. Candidates will be expected to teach biochemistry at the undergraduate and graduate level. Applicants should submit a curriculum vitae, a statement of current and proposed research, a statement of teaching experience and/or interests, and arrange to have three letters of recommendation sent to: **Dr. J. Clark Lagarias, Chair, Search Committee, Section of Molecular and Cellular Biology, University of California, Davis, CA 95616.**

Both positions are open until filled, but application materials should be received by October 31, 1995 to be assured full consideration. *The University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences based on gender, cultural ethnicity, disability, and sexual orientation. In that spirit, we are particularly interested in receiving applications from individuals who would enhance the diversity of our workforce.*

Allegheny-Singer Research Institute

Medical College of Pennsylvania and Hahnemann University

Hereditary Susceptibility to Neoplasia

The Allegheny-Singer Research Institute (ASRI) in Pittsburgh is establishing a system-wide program in hereditary susceptibility to neoplasia. This program will focus on the following activities:

- Provide the clinical expertise in medical genetics consultative and laboratory services necessary to identify individuals at especially high risk for developing neoplasia on account of inherited mutations;
- Expand the expertise in cancer cytogenetics in both hematological and solid tumors to serve both clinical and research requirements;
- Initiate a laboratory of molecular diagnosis that will have a major focus in cancer; this laboratory will augment existing expertise in the Department of Human Genetics;
- Develop research initiatives that include, but are not limited to:
 - basic research on the etiology and pathogenesis of cancer
 - pre-clinical testing of new molecular markers of susceptibility
 - identifying molecular markers predictive of prognosis, response to specific treatments, etc.
 - exploration of the ethical, social, legal and psychological implications of presymptomatic detection of a substantially elevated risk of neoplasia; and
- Participate in educating AHERF and community health professionals about the genetic basis of neoplasia and the appropriate use of molecular markers in clinical practice.

This program will collaborate extensively with the National Surgical Adjuvant Breast and Bowel Project (NSABP) of the National Cancer Institute, now directed by Dr. Norman Wolmark of Allegheny General Hospital.

Multiple faculty positions are available to highly skilled and motivated basic scientists and physician scientists. An excellent package of laboratory space, start-up support, salary, and access to competitive internal research funding is offered. The successful applicants will be expected to attract substantial external research funding and be eligible for appointment at the assistant or associate professor level, in the Department of Human Genetics, the Department of Human Oncology, or the relevant clinical department in the Medical College of Pennsylvania and Hahnemann University. The investigators will be expected to train postdoctoral fellows and graduate students in the interdepartmental molecular and cell biology program.

The positions are currently available. Interested applicants should send, in confidence, a statement of interest, current research program and funding and a curriculum vitae to: **Reed Edwin Pyeritz, M.D., Ph.D., Chair, Department of Human Genetics, ASRI, 320 E. North Ave., Pittsburgh, PA 15212-4772.**

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Postdoctoral Fellowship CROP PHYSIOLOGY/BREEDING

The International Maize & Wheat Improvement Center (CIMMYT) is a non-profit organization with a global mandate to assist poorer countries improve agricultural sustainability. CIMMYT's wheat improvement program is the largest in the world and in collaboration with national programs, face the challenge of meeting increased food demand. One objective is to improve yield potential of wheat lines, reducing the risk of agricultural expansion into natural habitats.

The position involves helping identify physiological approaches, as part of an interdisciplinary team of international scientists, which will lead to further improvement in yield potential. Current research areas include developing screening methods for yield (e.g. IR thermometry), utilization efficiency of growth factors, and lodging resistance. New approaches are encouraged where appropriate.

Qualifications: Ph.D. in plant science related discipline. Experience in physiological approaches to crop improvement is highly desirable. Communication skills, and knowledge of computers, development issues and Spanish also desirable. Facility in English is required. The post is at HQ, close to Mexico City. Seasonal travel within Mexico is necessary. Appointment is for 2-3 years. CIMMYT offers a competitive international salary & excellent benefits. Female applicants are strongly encouraged; job sharing is considered. Send C.V., cover letter stating research interest and availability, and names and fax no. of three referees by November 15, 1995 to: **Dr. M.P. Reynolds, Wheat Program, CIMMYT, A.P. 6-641, 06600 Mexico D.F., Mexico. Fax: (52) 595 544-25 & 5-7267558/9. Tel: 595 54400.**

RESEARCH DIRECTOR

The Foundation Fighting Blindness, a national organization dedicated to funding research to find the cause and cure for retinal degenerative diseases, seeks highly qualified candidates for the position of Director of Research. The Director interacts with Scientific Advisory Board to evaluate current and develop future research strategies, and administers a department that cooperatively assists in the achievement of The Foundation's overall strategic plan. Desired qualifications include a strong background in visual sciences and/or ophthalmology; an understanding of the balance between basic science and clinical research and the inter-active nature of the two; good organizational, writing and speaking skills; and the ability to participate within an integrated environment of fund raising, business development, research and administration. Candidates must possess a medical and/or scientific degree (M.D./Ph.D.) and 10 years relevant experience. Compensation equivalent to experience and skills. Forward statement of interest, curriculum vitae, and three references who can be contacted, to:

**Search Committee
National Retinitis
Pigmentosa Foundation, Inc.
d/b/a The Foundation Fighting Blindness
Executive Plaza One, Suite 800
11350 McCormick Road
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(EOE)

PHD CHEMICAL ENGINEER

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Individual selected must possess 0-4 years experience, including experience in fluidics. Experience with biosensors or cell biology is preferred. Surface chemistry or material science experience would be a plus.

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Wayne State University

ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY AND CELL BIOLOGY

The Department of Anatomy and Cell Biology, Wayne State University School of Medicine invites applications for two tenure track positions at the Assistant/Associate Professor level. For one position, the Department seeks an individual whose interests complement the research foci of the Department in visual science/neuroscience. Applicants are invited from candidates with expertise in molecular or cellular biology. For the second tenure track position to be held jointly in the Departments of Anatomy and Cell Biology and Ophthalmology, the Departments seek a candidate whose research is focused in the area of molecular biology/genetics of ocular diseases. The successful candidates will be expected to have or to establish a well-funded, independent research program and to participate in teaching. Excellent start up funds and laboratory space are available and collaboration is fostered by a Core Vision Grant. Applicants should have a Ph.D. or M.D. degree and postdoctoral experience. The Search Committee will accept applications until the positions are filled. Candidates should submit a letter, curriculum vitae and the names of three references to: **Linda Hazlett, Ph.D., Chair, Department of Anatomy and Cell Biology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201.**

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Director, Department of Protein Chemistry

Candidates should possess a Ph.D. in Biochemistry or a related field. Knowledge in protein chemistry and demonstrated ability of leadership, organizational, and communication skills are required. Position #825-H

Scientist/Senior Scientist, Department of Protein Chemistry

Candidates should possess a Ph.D. in Chemistry, Biochemistry or a related field. Knowledge in all aspects of protein isolation and characterization with two+ years of postdoctoral experience is required. Excellent verbal and written communication skills are essential. Position #825-G

Scientist/Senior Scientist, Department of Molecular Biology

Candidates should possess a Ph.D. in Molecular Biology, Biochemistry or a related field. Knowledge in microbial gene expression with two+ years of postdoctoral experience is required. Excellent verbal and written communication skills are essential. Position #831 -E

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EOE/AA



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Candidates must possess a MS/PhD in Biological Sciences and have 3-5 years industry experience. Selected candidate will be responsible for basic research in cell physiology, cryobiology, technical support and supervision.

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TENURE-TRACK POSITION IN EUKARYOTIC VIROLOGY

The Department of Microbiology and Molecular Genetics, Oklahoma State University, anticipates an opening for a tenure-track faculty position at the ASSISTANT PROFESSOR level starting August 15, 1996. Appointment is for 9-months with a nationally competitive salary and start-up funds. The successful candidate would be expected to supervise M.S. and Ph.D. students and establish a strong research program supported by extramural grants in any area of biological significance employing an eukaryotic virus. Teaching responsibilities include a course in the applicant's specialty, and the Cell and Molecular Biology course. A Ph.D. degree, significant postdoctoral experience, and demonstrated expertise in the field are required. During this current phase of rapid expansion, the department has the commitment and support from the University administration in seeking the best available candidate. Applications from women and minorities are particularly welcome. Stillwater is a university town of about 40,000 located about 60 miles equidistant from the metropolitan centers of Oklahoma City and Tulsa. Interested applicants should submit a detailed curriculum vitae, a short statement of research interests, relevant reprints, and names and addresses of at least three references to: **Dr. Moses Vijayakumar, Virology Search Coordinator, Department of Microbiology and Molecular Genetics, 306, LSE, Oklahoma State University, Stillwater, OK 74078-3020, by January 15, 1996. Tel: 405-744-6243; FAX: 405-744-6790. Oklahoma State University is an Affirmative Action/Equal Opportunity Employer.**

POSITIONS OPEN

Pediatric Physician SCIENTISTS: The University of Kentucky College of Medicine is interested in recruiting pediatricians (M.D. or M.D., Ph.D.) who are committed to laboratory investigation in areas of oncology, neuroscience, endocrinology, infectious disease or pulmonary diseases as applied to pediatrics. Clinical area of interest should be related to one of the above or in neonatology or critical care. Modern laboratory space, protected time, joint clinical/basic science appointments, collaboration or mentorship by senior investigators, and substantial intramural funding is available. Junior investigators with potential for extramural funding or senior investigators with active funding are encouraged to apply. Interactions with other faculty in the clinical basic science departments as well as the Sanders-Brown Center on Aging, Markey Cancer Center, School of Biological Sciences and College of Agriculture provide a particularly stimulating clinical and research environment.

Interested individuals should send curriculum vitae and statement of past experience and future plans to: V. Manakad, Chairman, Department of Pediatrics, University of Kentucky Medical Center, 800 Rose Street, Lexington, KY 40536-0284.

LIVE IN JAPAN

International Education Services (IES) invites applications for a one-year assignment in Japan teaching English to Japanese staff from major corporations, pharmaceutical companies, and government agencies. Professional work experience required. Please FAX or airmail current resume to: IES, Rose Hikawa Building, 22-14, Higashi 2-chome, Shibuya-ku, Tokyo 150 Japan. Telephone: 81-3-3498-7101; FAX: 81-3-3498-7113.

CONFERENCES



3rd International Conference on Anti-Aging Medicine & Biomedical Technology. December 9 through 11, 1995, Las Vegas, NV. Anti-Aging Therapies, Health & Wellness Essentials, Aging Diagnostic Testing, The Future of Biotechnology. Featured Speakers: Dr. William Regelson, Dr. Bob Goldman, Dr. Ben Weider, and Dr. Ronald Klatz, and 100 other internationally known experts in human aging and maximum health span. For more information contact BioConferences International, 4405 East-West Highway, No. 501, Bethesda, MD 20814. Telephone: 301-652-3072; FAX: 301-652-4951.

Universities, Research, and Commercial Science and Technology: Pursuing a Competitiveness R&D Agenda February 29 through March 2, 1996 University of Arizona, Tucson, Arizona

Featured Speakers: Daniel Greenberg, Editor and Publisher, *Science and Government Report*; Kenneth Shine, President, National Institute of Medicine. Topics: changes in federal policy and federal funding; commercial targets and priorities; university-industry-government partnerships; negotiating legal and organizational arrangements. For brochure contact: The University of Arizona, Center for the Study of Higher Education, Science and Technology Policy Initiative. Attention: Dr. Gary Rhoades, Telephone: 520-621-7951; FAX: 520-621-1875; Email: mball@u.arizona.edu.

CONTAMINATED SOILS CONFERENCE October 23 to 26, 1995

The University of Massachusetts at Amherst will host the 10th Annual Conference on Contaminated Soils. This year's conference sessions include: federal issues, radionuclide contamination, railroad/diesel, analysis, site assessment, environmental fate, remediation, risk-based corrective action, risk-based cleanup standards, state regulatory issues, site closure, human health risk assessment and effects, and ecological risk assessment. For more information please contact Linda Rosen at 413-545-2934.

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Perkin-Elmer PCR reagents are developed and manufactured by Roche Molecular Systems, Inc., Branchburg, New Jersey, U.S.A.

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