

### COLLEGE OF AGRICULTURAL AND ENVIRONMENTAL SCIENCES University of California, Davis

Inquiries are invited from qualified applicants for faculty positions available July 1, 1995.

\*\*Assistant Cooperative Extension Food Safety/Microbiology Specialist. Responsibilities include extension teaching and applied research concerning microbial safety of foods. Apply to: Carl Winter, Dept. of Food Science and Technology, by November 30, 1994.

\*\*Assistant/Associate Cooperative Extension Animal Nutritionist. Major emphasis will be on dairy and beef cattle nutrition with minor emphasis on small ruminants, swine, and horses. Apply to: Steven Berry, Dept. of Animal Science, by November 30, 1994.

\*\*Assistant Professor and Assistant Social Scientist. Understanding of community organization and social change as well as a general knowledge of the social policy and the planning process. Apply to: Alvin Sokolow, Dept. of Applied Behavioral Sciences, by November 1, 1994.

\*Assistant Professor and Assistant Watershed Hydrologist. Teach an undergraduate summer field course in hydrology, an integral part of the new Hydrologic Science major, a graduate level course in field-experimental watershed hydrology methods, and an undergraduate general education course in watershed management.. Develop a quantitative field-experimental research program in Watershed Hydrology emphasizing processes that may include land-atmosphere interactions, precipitation and runoff, surface water and groundwater interaction, etc., and chemical cycling in watershed. Apply to: W.W. Wallender, Dept. of Land, Air and Water Resources, Hydrologic Sciences, by October 31, 1994.

\*Assistant Professor and Assistant Textile Scientist. Teaching will include formal course work at the undergraduate and graduate levels in textile dyeing and finishing, textile and polymer science, and environmental chemistry. Research responsibilities will focus on textile and polymer chemistry with an environmental emphasis. Apply to:You-Lo Hsieh, Dept. of Textiles and Clothing, by January 15, 1995.

\*Assistant Professor specializing in Environmental/Resource Policy. Applicant should have a Ph.D. specializing in environmental or resource economics, or in a closely related field such as environmental policy, public policy, or political science; a strong background in economics and strong quantitative and research skills are essential. This position includes an appointment in the agricultural experiment station. Apply to: Seymour Schwartz, Division of Environmental Studies, by January 15, 1995.

\*Assistant Professor and Assistant Developmental/Behavioral Scientist Focusing on Adolescence. Teach at the undergraduate and graduate levels. Develop a research program which focuses on behavioral development throughout adolescence and guide graduate student research. Apply to: Rosemarie Kraft, Dept. of Applied Behavioral Sciences, by January 15, 1995.

\*\*Assistant Professor and Assistant Biochemical Engineer/Fermentation Scientist. Conduct research in winemaking/fermentation science, establish basic research program, teach in enology/biochemical engineering. Apply to: Roger B. Boulton, Dept. of Viticulture and Enology, by December 31, 1994. (Reopened)

\*These are 9-month tenure track appointments. Eleven month term employment will be offered and continued based upon academic personnel review.

\*\*These positions are to be filled at the Assistant Professor or Assistant Cocoperative Extension Specialist (11-month salary) level.

Positions anticipated to be open in the near future are listed below. Direct inquiries to the Chair of the respective department.

Economist/Agricultural Economist specializing in commercial agriculture, Department of Agricultural Economics.

Natural Resource or Environmental Economist, Department of Agricultural Economics.

Economist/Agricultural Economist specializing in International trade or Development Policy, Department of Agricultural Economics.

Full Professor and Endowed Chair specializing in the Economics of Transporting Agricultural and Related Products, Department of Agricultural Economics.

Assistant Professor and Cereal Geneticist, Department of Agronomy and Range Science.

Assistant Professor and Bioenvironmental Engineer-Animal Environment Emphasis, Dept. of Biological and Agricultural Engineering.

Experimental Nutritionist and Registered Dietitian, Dept. of Nutrition.

Bio-Systems Engineer, Dept. of Biological and Agricultural Engineering.

Conservation Biologist-Policy, Div. of Environmental Studies.

Food Chemist, Dept. of Food Science and Technology.

Mammalian Ecologist, Dept. of Wildlife, Fish, and Conservation Biology.

Nematologist focusing on nematode systematics and taxonomy, and curator of the UC Davis Nematode Collection, Dept. of Nematology.

Plant Biochemical Genetics, Dept. of Vegetable Crops.

Quantitative Agroecologist, Dept. of Agronomy and Range Science.

Soil Biogeochemist, Dept. of Land, Air and Water Resources.

Tropospheric Chemist, Dept. of Land, Air and Water Resources.

Assistant Professor, Graphic Designer, Visual Communications in Society, Dept. of Environmental Design.

Weed Ecophysiologist, Dept. of Vegetable Crops.

Professorial positions have responsibilities for teaching, advising and research (in the Agricultural Experiment Station) and require teaching and research experience. Cooperative Extension positions have responsibilities for applied research and outreach. Candidates must have a Ph.D. in an appropriate field. Applicants should submit resume, transcripts (if within five years of graduation), statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant's qualifications, to individual and department as noted for position (department name), University of California, Davis, CA 95616. Please indicate the position(s) in which you are interested. The completed application must be received by date indicated for each position. The University of California is an Affirmative Action/Equal Opportunity Employer.

# Annual Meeting of the American Society of Zoologists

The American Microscopical Society Animal Behavior Society The Crustacean Society

# January 4-8, 1995 Adam's Mark Hotel, St. Louis, Missouri

ST. LOUIS

AMERICAN SOCIETY OF ZOOLOGISTS

Meeting Hosted by: University of Missouri - St. Louis

# Society-Wide Symposium

*Molecular Approaches to Zoology and Evolution* demonstrates how specific molecular approaches allow us to address major biological questions in zoology and focuses on how both novices and advanced users may apply these techniques.

Organized by: Joan D. Ferraris, National Institutes of Health & Stephen R. Palumbi, University of Hawaii

# **Don't Miss These Other Exciting Symposia**

 Historical Patterns of Developmental Integration examines the systematic concepts and methods underlying various comparative approaches; presents empirical case studies; and considers the implications of these findings for phylogenetic analyses of morphological characters.
Organized by: Miriam L. Zelditch, Museum of

Paleontology

 Parasitic Effects on Host Hormones and Behavior describes effects of parasites on invertebrate and vertebrate endocrinology, behavior and immune function.
Organized by: Nancy Beckage, University of California

Riverside

- Risk Sensitivity in Behavioral Ecology focuses on empirical tests of risk-sensitive models as approached from the perspectives of both behavioral ecology and animal psychology.
  Organized by: Peter Smallwood, Bryn Mawr College
- The Biology, Ecology and Physiology of Zebra Mussels reviews the brief but intensive research conducted on the North American experience with zebra mussels.
  Organized by: Jeffery L. Ram, Wayne State University

- Recent Advances in the Study of Invertebrate Feeding Biodynamics demonstrates the successful application of several recently developed video/computer technologies and their use for examining invertebrate feeding activities and processes. **Organized by:** Richard Tankersley, Gonzaga University
- The State of Experimental Ecology: Questions, Levels and Approaches brings together 23 speakers who discuss the field-experimental approach to the analysis of problems in animal evolutionary ecology. **Organized by:** Joseph Bernardo, Duke University
- Phylogenies and Comparative Biology Stage II: Testing Hypotheses Derived From Phylogenies With Data From Extant Taxa speakers illustrate how they use phylogenetic information to generate predictions that can be evaluated through observation or experiments.
  Organized by: Jonathan B. Losos, Washington University
- Environmental Endocrine Disrupters overviews problems and updates the most recent breakthroughs. Speakers address effects on endocrine, reproduction, nervous and immune systems and embryonic development.
  Organized by: Brent D. Palmer, Ohio University

#### For more information contact:

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

# 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 FAX: 202-682-0816

Internet Email: science classifieds@aaas.org

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.

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.

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Credit Cards: Science accepts 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.

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#### **POSITIONS OPEN**



#### CELL BIOLOGIST

The Biology Department of Swarthmore College invites applications for a tenure-track appointment at the ASSISTANT PROFESSOR level, to begin September 1995, pending final administrative approval. We seek a Eukaryotic Cell Biologist with research experience in molecular biology, who is committed to combining teaching and research at a small liberal arts college. Teaching responsibilities will include participation in introductory biology, teaching a sophomore-level lecture and laboratory course in cell biology, and an advanced seminar in an area of special interest. The successful candidate will be expected to establish an active research program that provides opportunities for undergraduate participation. A Ph.D. is required, and postdoctoral research experience is desirable. Applicants should submit a curriculum vitae, along with statements of teaching and research interests, and arrange to have three letters of recommendation sent by December 5, 1994, to: John B. Jenkins, Chair of the Cell Biologist Search Committee, Biology Department, Swarthmore College, Swarthmore, PA 19081-1397.

Swarthmore College is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

#### TWO BIOLOGY FACULTY POSITIONS

Northeast Missouri State University invites applications for two tenure-track positions at the ASSISTANT or ASSOCIATE PROFESSOR level, starting August 1995. We seek (1) a POPULATION GENETICIST to teach Introductory Genetics as well as Evolutionary Biology and (2) a CELL BIOLOGIST to teach Cell Biology. Both positions include rotation through a majors or nonmajors General Biology course and the opportunity to offer an advanced specialty course. Teaching and research are mutually supportive activities at Northeast; candidates should be strongly committed to both teaching and developing a research program involving undergraduate and M.S. students. Laboratory space and start-up funds will be provided.

Ranked fifth in the nation by Money Guide, Northeast is Missouri's only statewide, highly selective, public undergraduate liberal arts and sciences university. We are nationally recognized for our innovative assessment program and total commitment to a broad-based liberal arts and sciences education. Students benefit from a university-wide 16:1 student/faculty ratio and the opportunity to work closely with faculty conducting research.

to work closely with faculty conducting research. Candidates must possess a Ph.D., or have a targeted completion date, by August 1995. Complete applications include a curriculum vitae, statements of teaching philosophy and research goals, undergraduate and graduate transcripts, three letters of reference, and an indication of the position and rank for which you are applying. Candidates who wish to be considered at the Associate Professor rank should also include evidence of substantial scholarly activity with undergraduates and excellence in instruction. All application materials should be sent to: Dr. Michael G. Tannenbaum, Biology Search Committee, Division of Science, Northeast Missouri State University, Kirksville, MO 63501. Telephone: 816-785-4597. Completed applications will be reviewed starting 11 November 1994.

Northeast Missouri State University is an Affirmative Action/ Equal Opportunity Employer committed to cultural diversity and compliance with the Americans with Disabilities Act.

FACULTY POSITION: The Department of Pharmacology, School of Medicine, University of Puerto Rico, a fully accreditated institution has open tenure-track positions for ASSISTANT and ASSOCIATE PROFES-SOR.

Areas of Interest: Cardiovascular Pharmacology; Toxicology. Send applications and three references to: **Dr. Walmor** 

Send applications and three references to: Dr. Walmor C. De Mello, Professor and Chairman, Department of Pharmacology, School of Medicine, University of Puerto Rico, P.O. Box 365067, San Juan, PR 00936-5067.

#### **POSITIONS OPEN**

#### **ASSISTANT PROFESSORSHIPS (2)**

PHYSIOLOGY (teach comparative animal physiology; specialty open) and EVOLUTION (teach evolution; must use molecular tools). Both faculty will also teach other courses that contribute to our program concentrations in cell/molecular biology and/or ecology. Must have postdoctoral experience, a strong commitment to undergraduate teaching and research involving undergraduate and graduate students, and be flexible and will ing to work cooperatively in developing our new campus. Review of applications will begin on November 1, 1994; positions will remain open until filled and are subject to final authorization. Send a letter of application, curriculum vitae, a statement of teaching and research interests, and three letters of recommendation to: Biology Search Committee, California State University San Marcos, San Marcos, CA 92096. The University has a strong commitment to the principle of diversity and seeks a broad spectrum of candidates including women, members of minority groups and people with disabilities. Affirmative Action/Equal Opportunity Employer.

PHYSIOLOGIST: The Department of Life Sciences at Indiana State University invites applications for an AS-SISTANT PROFESSOR, tenure-track position. Applicants must have a Ph.D. and a record of research excellence. The successful applicant will be expected to develop a strong, extramurally funded research program, direct Ph.D. student research, and teach effectively at both the undergraduate and graduate levels. Area of research is open, but preference will be given to applicants whose expertise supports ongoing ecological research in the department. Teaching duties include comparative physiology and physiological ecology. Applicants should submit a curriculum vitae, concise descriptions of research and teaching interests, up to three recent reprints, and have three letters of reference sent to: Steven L. Lima, Chair, Physiologist Search Committee, Department of Life Sciences, Indiana State University, Terre Haute, IN 47809. Telephone: 812-237-2400; FAX: 812-237-4480. Review of applications begins October 24, 1994, and will continue until the position is filled. Indiana State University is an Affirmative Action/Equal Access/Equal Opportunity Employer. Applications from women and members of minorities are strongly encouraged.

#### TROPICAL PLANT ECOLOGY

The Department of Ecology, Evolution, and Organismal Biology at Tulane University invites applications from plant ecologists for a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. A botanically trained ecosystem or community ecologist is sought to establish a strong research and teaching program in tropical plant ecology, especially field ecology; to train undergraduate and graduate students through course offerings and research opportunities; to participate in Latin American/Caribbean interdepartmental programs; to assume a leadership role in developing international research in tropical biology and conservation; and

to be competitive in attracting outside research funding. Applicants should send curriculum vitae, a brief description of teaching and research interests, copies of several recent publications, and the names of three references by November 30, 1994, to: Steven P. Darwin, EEO Biology, 310 Dinwiddie Hall, Tulane University, New Orleans, LA 70118, USA.

Tulane University is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority candidates are encouraged.

#### TENURE-TRACK ASSISTANT PROFESSOR University of Pennsylvania Laboratory of Parasitology

Applications are invited for a tenure-track ASSIST-ANT PROFESSORSHIP in the School of Veterinary Medicine. The successful applicant will be expected to develop an independently funded research program and to participate in teaching Veterinary Parasitology as well as graduate-level courses in Parasitology. Candidates should have a D.V.M./V.M.D. and/or Ph.D. degree and a demonstrated ability to conduct high quality independent research. Applicants with a research interest in the molecular biology of parasites or in immunity to parasitic infections will be given primary consideration. Send a letter of application, curriculum vitae and the names of three references to: Chair, Search Committee, Laboratory of Parasitology, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104.

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

Ladus Pharmaceutical Corporation is a rapidly growing biopharmaceutical company pioneering the discovery of drugs which regulate G protein-mediated signalling pathways in the areas of inflammation, cardiovascular and neurological disorders. We presently seek highly motivated scientists with a proven track record at all levels to accelerate the development of our yeast based screening programs.

# **SCIENTISTS**

#### Receptor **Biochemist**: Ph.D. level scientist with

5-7 years experience in

the area of biology

and biochemistry of

**Receptor cDNA** Cloning: Ph.D. level scientist

with minumum 4 years post-graduate experience and

pate in efforts to

identify and clone

novel G-coupled signal

transduction components.

Specific expertise in cDNA

cloning and expression tech-

nologies essential. Job code:

track record, to partici-

trans- TARGET DRIVEN TO SUCCESS proven membrane receptors. Training in pharma-

cology and receptor biochemistry is essential; experience in molecular biology

is preferred. Strong management and communication skills (verbal and written) required. Job code: S-RB

## Cell Biologist:

Ph.D. level scientist with minimum 4 years experience in studies on the cellular basis of receptor mediated signal transduction in mammalian systems. Training in molecular biology is essential; experience in assay development is preferred. Strong verbal and written communication skills required. Job code: S-CB

# **RESEARCH** SCIENTIST DNA Sequencing:

S-RC

BS/MS with minimum 3 years experience with automated and manual DNA sequencing systems. Strong management and communication skills required. Will coordinate and manage DNA sequencing facility. Job code: S-DNA

# ASSOCIATE RESEARCH SCIENTISTS

**Biochemistry**: BS/MS level scientist with minimum 3 years experience in protein analysis and biochemistry. Experience in Western blot, ligand binding and cellular localization analyses is preferred. Job code: S-B

Molecular Biology: BS/MS level scientist with minimum 2 years laboratory experience in molecular biology. Expertise in DNA cloning and gene expression (yeast and mammalian) is essential, with expertise in protein analysis preferred. Job code: S-MB

Yeast Genetics: BS/MS level scientist with minimum 2 years experience in yeast genetics and/or molecular biology to aid in the development and adaptation of novel yeast strains to high throughput screening format. Job code: S-YG

Screening: BS level scientist with experience in the design or development of high throughput screens, operation of BioMek or other robotic systems and/or management of compound libraries. Job code: S-S

Cadus offers competitive salaries and benefits as well as excellent opportunity for career growth in a stimulating, collaborative environment. Send CV and a list of references to: Science Search, Cadus Pharmaceutical Corporation, 180 Varick Street, 9th floor, New York, NY 10014. Please indicate job code on envelope. Cadus is an equal opportunity employer.



### • U.S. GOVERNMENT • FOOD AND DRUG ADMINISTRATION PHARMACOLOGIST/TOXICOLOGIST

Review Scientist positions are available in the Center for Drug Evaluation and Research, U. S. Food and Drug Administration, Rockville, MD. As a part of a multidisciplinary scientific team, the scientists review and evaluate the results of studies submitted in support of New Drug Applications (NDA), Investigational New Drug Applications (IND), and amendments, to assess the safety of the drug, based on experiments conducted by the investigator. Review of the data includes evaluation of the quality and adequacy of testing to ensure that the studies support the manufacturers' claims for safety. Review recommended dosage levels to determine margin of safety for clinical use. Prepare comprehensive summaries of the data reviewed, and submit recommendations and conclusions for approval.

**OUALIFICATIONS:** Specific course work in the field of study and professional experience or directly related postgraduate education is required. A doctoral degree in the field of pharmacology or toxicology is highly desirable. Professional postgraduate experience in dermal and/or ocular acute, subchronic and chronic toxicity studies is desired for a position in our Division of Topical Drug Products.

Candidates for Civil Service or Commissioned Corps appointments must be U.S. citizens. Candidates for Staff Fellowships may be either U.S. citizens or resident aliens eligible for citizenship within four years.

SALARY: Civil Service salary range for GS-12 through GS-13 is \$42,003 to \$64,928. Salary, level of responsibility benefits, and are commensurate with education and experience.

HOW TO APPLY: Interested candidates should send a cover letter referring to position code SRC185, an Application for Federal Employment (SF-171), and/or detailed Curriculum Vitae along with a copy of college transcripts to:

**DHHS/PHS/Food and Drug Administration** Center for Drug Evaluation and Research 5600 Fishers Lane; Room 11B-22; HFD-505 Rockville, MD 20857 Attention: Recruitment Staff

FDA IS AN EOUAL OPPORTUNITY EMPLOYER AND HAS A SMOKE FREE ENVIRONMENT

#### FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY UNIVERSITY OF ILLINOIS COLLEGE OF MEDICINE

Applications and nominations are invited for tenured faculty positions at the level of ASSISTANT, ASSOCI-ATE or FULL PROFESSOR. Applicants at the Assistant Professor level should have a Ph.D., postdoctoral experience, a strong record of research accomplishments, and demonstrable potential for the development of an independent research program. Senior level applicants should have a nationally/internationally recognized extramurally funded research program. All areas of bio-chemistry will be considered; however, we are especially interested in individuals using transgenic mouse technology to investigate problems related to gene regulation in the context of molecular biology and medicine, develop-ment, signal transduction and molecular immunology. The department is one of six basic science departments in the largest College of Medicine in the United States and consists of 19 full-time faculty and 13 joint appointees. The department, college, and campus are well equipped and have research facilities that will support any area of contemporary biomedical research. In recent years we have recruited several senior and junior faculty and are most interested in fostering independent research in an environment of interactive collegiality. Applications should include a curriculum vitae, a summary of current and future research plans and the names, addresses, telephone/FAX numbers of at least three individuals for references. All inquiries will be held in confidence. Review of applications will begin after November 1, 1994. Send applications will begin after November 1, 1994. Send applications or nominations to: Chair, Faculty Search Committee, Department of Biochemistry (M/C 536), University of Illinois College of Medicine, 1819-53 West Polk Street, Chicago, IL 60612. The University of Illinois is an Affirmative Action/Equal Opportunity . Employer

#### ECOLOGIST, ASSISTANT PROFESSOR

The Department of Biology at the University of Central Florida invites applications for a tenure-track nine-month position at the ASSISTANT PROFESSOR level. The successful candidate will be expected to develop a strong extramurally funded program in an area of ecolo gy. The expertise and area of research interest should include one or more of the following: plant, population, conservation, evolutionary, applied, or behavioral ecolo-gy. Teaching duties will include undergraduate and speialty graduate courses. Ph.D. degree required and postdoctoral experience is preferred. Salary depends upon qualifications and experience. Send curriculum vitae, statement of research and teaching interests, official college transcripts, representative reprints, and the names, addresses and telephone numbers of three references to assess teaching and research potential to: Chair, Ecology Search Committee, Department of Biology, Universi-ty of Central Florida, Orlando, FL 32816-2368 postmarked by 6 October 1994.

An Equal Opportunity/Affirmative Action Employer.

The Department of Microbiology and Molecular Genetics at The University of Texas Houston Medical School invites applications at the ASSISTANT PRO-FESSOR level to fill a tenure-track faculty position. We are especially interested in candidates whose focus of research is directed towards genetic and biochemical ap-proaches to the study of eukaryotic microorganisms, e.g., fungi, algae, protozoans. The regulation of gene expres sion, sensory transduction pathways, nuclear-cytoplasmic interactions, development and macromolecular structurefunction relationships represent some specific areas of interest to the Department. Candidates are expected to have the Ph.D. and/or M.D. degree, and postdoctoral research experience. Emphasis will be placed on the ability of the candidate to develop a strong, highly visible, inde-pendent and nationally competitive research program. Successful applicants will be expected to teach medical students and graduate students. Please send curriculum vitae, statement of teaching and research interests, and names of four (4) referees to: Dr. Samuel Kaplan, Mi-crobiology and Molecular Genetics, The University of Texas Houston Medical School, P. O. Box 20708, Houston, TX 77225. For full consideration please re-spond by December 1, 1994. The University of Texas Houston Health Science Center is an

Equal Opportunity Employer. Women and minorities are encouraged to apply.

#### NEW MEXICO INSTITUTE OF MINING AND TECHNOLOGY ASSISTANT PROFESSOR OF BIOLOGY

New Mexico Institute of Mining and Technology invites applications for a tenure-track position at the AS-SISTANT PROFESSOR level to begin in August 1995. We seek an individual capable of teaching courses in cell and molecular biology and conducting environmentally related research with animal systems using molecular techniques. Examples of desired research areas that would complement those of existing faculty include: environmental physiology, public health, and conservation biology/biodiversity. Applicants with other environmental/ molecular research interests will also be considered Teaching will be at the undergraduate and graduate levels. The successful applicant will be expected to develop a vigorous research program involving graduate and under-graduate students. Ph.D. in a biological science is required. Postdoctoral experience is preferred. Applications should provide evidence of excellence in research (recent publications) and must be able to demonstrate good writ-ten and oral communication skills in English. New Mexico Tech is a small institution dedicated to excellence in education and research in science and engineering, locat ed 75 miles south of Albuquerque in the Rio Grande Valley. Women and underrepresented minorities in the sciences are especially encouraged to apply. Applicants should send a curriculum vitae, statement of research and teaching interests, and three letters of recommendation to: New Mexico Institute of Mining and Technology, Human Resources, Wells Hall Box C-081B, Socorro, NM 87801. Applications should be received by December 1, 1994, to receive full consideration. Affirmative Action/Equal Opportunity Employer.

#### FACULTY POSITION MEDICAL MICROBIOLOGIST

Tenure-track, ASSISTANT/ASSOCIATE PRO-FESSOR in the Department of Microbiology at Arizona State University, main campus. Applicants must have a doctoral degree and postdoctoral experience in a field related to medical microbiology. Specific research area is open, although candidates whose research focuses on immunology or virology at the cellular or molecular level are especially encouraged to apply. The successful candidate will be expected to conduct an independent, extramurally funded research program; direct graduate student re search: teach undergraduate and graduate level courses in medical microbiology; and engage in service activities. Experience working with grants/funded grant projects is desirable. Participation in the interdisciplinary Molecular and Cellular Biology Program and contacts with the extensive Phoenix metropolitan area medical research community will be strongly encouraged. Submit a curriculum vitae, a letter of reference from your current position, names and addresses of two additional references, a state ment of research and teaching interest, and no more than three relevant reprints to: Search Committee, Department of Microbiology, Arizona State University, Box 872701, Tempe, AZ 85287-2701. Review of applica-tions will begin October 24, 1994, and continue the Monday of each succeeding week until filled. Arizona State University is an Equal Opportunity Employer.

#### RESEARCH CORE FACILITY MANAGER, FLOW CYTOMETRY

The Arthritis and Musculoskeletal Diseases Center at The University of Alabama at Birmingham, Birmingham, Alabama, is currently seeking an experienced FLOW CY-TOMETRY OPERATOR. The successful candidate will possess experience in the daily operation of a large multi-user core facility. The candidate must have experience necessary to analyze and isolate cell subpopulations based on six (6) parameter flow techniques. Additional experience should include simultaneous DNA/RNA analysis, calcium studies, immunophenotyping and sort-ing or analysis of DNA in living cells. Experience with the FACScan<sup>®</sup> and FACStar<sup>Plus®</sup> flow cytometers is preferred. This position requires a college degree, five to seven years of experience and certified flow cytometry training. Additional years of experience may substitute for degree requirement. Competitive salary and generous benefit package. Interested applicants should send a letter of introduction and curriculum vitae to: William J. Koopman, M.D., Director, UAB AMDC, The University of Alabama at Birmingham, Tinsley Harrison Tower 413, Birmingham, AL 35294. FAX: 205-934-1564. The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### TERRESTRIAL PLANT ECOLOGIST **Clare Boothe Luce Faculty Chair** Creighton University

Creighton University invites applications from women in the field of terrestrial plant ecology for a Clare Boothe Luce Faculty Chair in the Biology Department. This appointment is a nine-month, tenure-track position at the ASSISTANT PROFESSOR level and begins in August 1995. The position is a rotating chair, established under terms of the Luce Foundation to increase the representation of women on natural science faculties. After an appointment of up to five years, the recipient is eligible for tenure and advancement as a regular member of the Bi-ology Department. We seek an individual with the potential to be an excellent scholar-teacher and an exemplary mentor for undergraduate women interested in scientific careers. The successful applicant will teach two courses per semester (including offerings in terrestrial ecology and introductory botany, a research seminar for Luce Fellows, and advanced courses in their specialty). The chair recipient is also expected to develop an effective and sustainable research program, direct the Luce Scholarship program, and participate in the interdepartmental Environmental Science program. Creighton is a Jesuit, Catholic institution that seeks qualified applicants from all backgrounds who believe they can contribute to the university's outstanding educational traditions. We encourage applications from minorities. To apply, a curriculum vitae, statement of research and teaching interests, documentation of teaching effectiveness (if available), undergraduate and graduate transcripts, and three letters of reference must be received by November 11, 1994. Please direct inquiries and application materials to: Dr. John F. Schalles, Luce Chair Search Committee, Biology De-partment, Creighton University, Omaha, NE 68178-0103, USA

#### TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS IN DEVELOPMENTAL NEUROSCIENCE Department of Neurobiology and Anatomy University of Utah School of Medicine

Applicants must have a Ph.D., M.D., or equivalent degree, postdoctoral research experience, and the ability to develop a strong independent research program. Applicants with demonstrated research expertise in any asbect of nervous system development will be considered. A strong commitment to teaching medical and graduate students is also required; prior teaching experience in a medical school basic science curriculum is preferred. These positions will not require teaching of human (gross) anatomy. Send a curriculum vitae (including bibliography and list of grant support), a statement of research interests, and names and addresses of three refersearch interests, and names and addresses of three refer-ences to: Dr. T.N. Parks, Chair, Department of Neu-robiology and Anatomy, University of Utah School of Medicine, Salt Lake City, UT 84132, U.S.A. Deadline is February 1, 1995, or unit suitable candidates are identified. Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minorities.

#### POPULATION GENETICS OREGON STATE UNIVERSITY

ASSISTANT PROFESSOR: tenure-track position in the broad area of population genetics starting as early as spring 1995. Strong preference will be given to individuals using molecular techniques to explore evolutionary questions at the population level. A combined field and laboratory approach focusing on mechanism and process as opposed to description is desired. We expect the ap-pointee to have an enthusiasm for both undergraduate and graduate instruction. Responsibilities include the instruction of basic genetics for life science majors and a course in population genetics for advanced undergraduate and graduate students. The appointee will also be expected to conduct a vigorous externally funded pro-gram of research. A Ph.D. is required and postdoctoral experience is preferred. Please send your curriculum vitae, a statement of research interests, selected reprints and arrange to have three letters of reference sent to: Search Committee, Department of Zoology, Oregon State University, Corvallis, OR 97331-2914. Application review will start November 1, 1994, and continue until the position is filled. Oregon State University is an Affirmative Action/Equal Employment Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973. Oregon State University has a policy of being responsive to the needs of dual-career couples.



## National Defense Science and Engineering Graduate Fellowships

STARTING IN ACADEMIC YEAR 1995 - 1996

As a means of increasing the number of U.S. citizens trained in disciplines of science and engineering of military importance, the Department of Defense plans to award approximately 90 new threeyear graduate fellowships in April 1995. National Defense Science and Engineering Graduate Fellowships will be awarded for study and research leading to doctoral degrees in, or closely related to, the following disciplines:

AERONAUTICAL AND ASTRONAUTICAL ENGINEERING BIOSCIENCES (Includes Toxicology) CHEMICAL ENGINEERING CHEMISTRY COGNITIVE, NEURAL, AND BEHAVIORAL SCIENCE COMPUTER SCIENCE ELECTRICAL ENGINEERING GEOSCIENCES (Includes terrain, water, and air) MANUFACTURING SCIENCES AND ENGINEERING (Includes Industrial Engineering) MATERIALS SCIENCE AND ENGINEERING MATHEMATICS MECHANICAL ENGINEERING NAVAL ARCHITECTURE AND OCEAN ENGINEERING OCEANOGRAPHY PHYSICS (Includes Optics)

National Defense Science and Engineering Graduate Fellows selected in 1995 will receive a stipend in addition to full tuition and required fees. The amount of the stipend is \$16,500 for 1995-1996; \$17,500 for 1996-1997; \$18,500 for 1997-1998. Also, the fellow's graduate academic department will receive \$2,000 per year.

Recipients of National Defense Science and Engineering 1995-1996 Graduate Fellowships do not incur any military or other service obligation.

Specific information regarding the fellowship and an application package are available from Battelle Memorial Institute, a not-for-profit research institution, which is administering the program for the Department of Defense.

To request a copy of the application materials to be mailed directly to you, contact Battelle at the following address:

NDSEG Fellowship Program 200 Park Drive, Suite 211 P.O. Box 13444 Research Triangle Park, NC 27709-3444 ATTN: Dr. George Outterson (919) 549-8505 NDSEG@ARO-EMH1.ARMY.MIL



Completed applications must be received by Battelle by January 18, 1995.

# FACULTY POSITIONS



The University of North Carolina Lineberger Comprehensive Cancer Center is entering a major phase of scientific recruitment in preparation for expansion into new facilities. We invite applications from well qualified persons for the following positions:

#### **CELL/MOLECULAR BIOLOGIST**

Applications are invited for a tenure-track faculty position. Candidates with emerging or established records in contemporary molecular and cellular biology will be considered. Areas of interest include, but are not limited to, cancer genetics, signal transduction, cell cycle control, regulation of gene expression, mechanisms of DNA replication, recombination and repair, and molecular and cellular aspects of cancer. The successful candidate will also be affiliated with the University's Program in Molecular Biology and Biotechnology. Departmental affiliation will be determined on the basis of the candidate's background and interests. Applicants should send a curriculum vitae, a description of research interests, and a list of at least three references, preferably by December 1, 1994 to:

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

#### **IMMUNOLOGISTS**

In conjunction with the Department of Microbiology-Immunology, applications are invited for two tenure-track positions at the Assistant Professor level. Areas of research interest include, but are not limited to, molecular immunology, cellular immunology and tumor immunology. The successful candidates will join a community of excellent and interactive scientists, and will contribute to active training programs for postdoctoral and predoctoral trainees as well as medical students. Send curriculum vitae, letter of research interests, and at least three references, preferably by December 1, 1994, to:

Dr. Jenny P.-Y. Ting Chair, Immunology Search Committee Lineberger Comprehensive Cancer Center University of North Carolina School of Medicine CB# 7295 Chapel Hill, NC 27599-7295

#### HEMATOLOGISTS/ONCOLOGIST

In conjunction with the Division of Hematology/Oncology, Department of Medicine, applications are invited for tenure-track faculty positions from candidates with M.D. or M.D./Ph.D. degrees who are board eligible in Hematology and/or Oncology. Research interests may include, but are not limited to, growth factors, hematopoiesis, cancer genetics, tumor cell biology, tumor immunology, cell cycle control of replication gene expression, gene therapy, and molecular therapeutics. Successful candidates will be expected to maintain vigorous, basic research programs. Clinical research positions are also available. Interested individuals should reply with a curriculum vitae, preferably by December 1, 1994, to:

> Dr. Beverly S. Mitchell Chair, Heme/Onc Search Committee Division of Hematology/Oncology Lineberger Comprehensive Cancer Center University of North Carolina School of Medicine CB# 7305 3009 Old Clinic Building Chapel Hill, NC 27599-7295

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

#### ASSISTANT PROFESSOR PSYCHOPHYSICS/COGNITIVE AND COMPUTATIONAL NEUROSCIENCE/NEUROPHYSIOLOGY

We invite applications for a tenure-track **ASSISTANT PROFESSOR** position in the Computation and Neural Systems Program and the Division of Biology at the California Institute of Technology. Applicant should conduct research toward understanding higher perceptual and cognitive functions in humans and other primates. The candidate should carry out a research program in at least two of the following areas: psychophysics, computational and cognitive neuroscience, and behavioral neurophysiology. The initial appointment term is four years, and appointment is contingent upon completion of Ph.D. Applicants should submit a curriculum vitae, a description of research and three reprints, and arrange for three letters of recommendation to be sent to: **Prof. Christof Koch**, **Division of Biology 139-74, California Institute of Technology, Pasadena, CA 91125**. The California Institute of Technology is an Affirmative Action/

The California Institute of Technology is an Affirmative Action / Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

CHEMISTRY DEPARTMENT, UNIVERSITY OF UTAH. Applications are invited for a tenure-track faculty position at the ASSISTANT PROFESSOR level in bioinorganic chemistry or organic chemistry. Candidates are expected to have the ability and motivation to develop an outstanding research program and to excel in teaching. A Ph.D. degree is required and postdoctoral experience is desirable. Reply to: Faculty Search Committee, Department of Chemistry, 2040 North Henry Byring Building, University of Utah, Salt Lake City, UT 84112. Applicants should request three recommendation letters to be sent directly to the committee. Initial correspondence should include a detailed curriculum vitae and a statement of proposed research. Deadline for receipt of applications is October 31, 1994, or until a suitable candidate is identified. The University of Utah is an Affimative Action/Equal Opportunity Employer and encourages applications to the known disabilities of applicants and employees.

An ASSISTANT PROFESSORSHIP is available in the Department of Microbiology, Biozentrum, University of Basel for an individual with research interests in euor prokaryotic molecular microbiology. The successful applicant will be expected to take an active part in teaching microbiology to undergraduate and doctoral students. The position includes full salary support for the applicant, a doctoral student and a technician. Applications from qualified women are especially welcome. Applicants should send a curriculum vitae, list of publications, concise (one to two page) summary of future research interests and the names, addresses and FAX numbers of three to five scientists who may be contacted for a reference. This material should be sent before 1 December 1994 to Prof. Thomas A. Bickle, Department of Microbiology, Biozentrum, University of Basel, Klingelbergstrasse 70, CH-4056 Basel, Switzerland who may be contacted for further information (Telephone: +4161-267-2120; FAX: +4161-267-2118; Email: bickle@ubaclu.unibas.ch).

#### FACULTY POSITIONS Department of Biochemistry, Molecular Biology, and Cell Biology Northwestern University

The Department of Biochemistry, Molecular Biology, and Cell Biology seeks outstanding candidates for fulltime faculty appointments at the ASSISTANT PRO-FESSOR rank. We particularly seek applicants in the areas of signal transduction, cell cycle regulation, mammalian developmental genetics, yeast genetics, and structural biology. Candidates should submit a curriculum vitae, a list of publications, statements of research accomplishments and future research objectives, and letters of reference from three persons knowledgeable of the candidate's research and teaching abilities to: Chairman, Faculty Search Committee, Department of Biochemistry, Molecular Biology, and Cell Biology, 2153 North Campus Drive, Evanston, IL 60208-3500. To ensure full consideration, complete applications should be received by December 31, 1994.

Women and minority scientists are especially encouraged to apply. Northwestern University is an Affirmative Action/Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### CELL BIOLOGIST CARNEGIE MELLON UNIVERSITY

The Department of Biological Sciences, Carnegie Mellon University, is seeking a Cell Biologist for a tenuretrack appointment at the **ASSISTANT PROFESSOR** level. Exceptional candidates for appointment at a higher level will also be considered. Candidates using innovative molecular and/or technological approaches to fundamental problems in Cell Biology are especially encouraged to apply. To apply, submit a curriculum vitae along with a description of past accomplishments, present activities and future research plans; also arrange to have three letters of reference sent directly to: Cell Biology Search Committee, Department of Biological Sciences, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213. Application deadline: November 15, 1994. Carnegie Mellon University is an Equal Opportunity/ Affirmative Action Employer.

#### ASSISTANT/ASSOCIATE PROFESSOR PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY

Outstanding candidates are being sought for tenuretrack positions to join a rapidly growing group of 30-plus members in the Program in Molecular and Cellular Biology. Candidates should have strong research programs within the broadly defined areas of biochemistry and cell, molecular and developmental biology which will serve to complement those areas of research currently in existence. Candidates should have demonstrated evidence of productivity. Teaching duties are modest and will be primarily at the level of graduate student and postdoctoral fellow education. Salary, space and start-up funds are competitive with national levels. Interested individuals should submit curriculum vitae, a brief description of research plans and the names of three individuals who will serve as references to: Dr. Douglas M. Stocco, Chair, Search Committee, Program in Molecular and Cellular Biology, Texas Tech University Health Sciences Center, 3601 4th Street, Lubbock, TX 79430 before 1 January 1995. Equal Opportunity Employer.

#### ASSOCIATE PROFESSOR ENVIRONMENTAL ETHICS

The Master's Program in Environmental Science at University of Tsukuba invites applications for a tenuretrack position at the rank of **ASSOCIATE PROFES-SOR** of Environmental Ethics. Responsibilities include research, supervision of graduate and undergraduate student research, and teaching in English. Candidates should have a Ph.D. in Biology or related areas. Salary will be in line with the regulations set out for Faculty of a Japanese National University, with retirement at age 63. Subsidized housing is available.

Applicants should submit their curriculum vitae, statement of research interests, and at least three letters of reference to: O. Maeda, Chairman, Master's Program in Environmental Science, University of Tsukuba, Ibaraki 305 Japan. Review of applications will begin November 16, 1994, and continue until the position is filled.

#### FACULTY POSITION PLANT-MICROBE INTERACTIONS

The Botany Department of the University of Toronto invites applications for a tenure-track position in Plant-Microbe Interactions at the ASSISTANT PROFES-SOR level, starting July 1, 1995. The successful candidate should have a Ph.D. and, preferably, postdoctoral experience. Research areas of particular interest include plantparasite interactions at the molecular, cellular, genetical, biochemical or physiological levels, but other areas of plant-microbe interactions will be considered. Teaching responsibilities will include participation in team-taught undergraduate and graduate courses in appropriate areas of biology such as plant-microbe interactions, plant pathology, cell or molecular biology. Applicants should submit a curriculum vitae, a statement of research and teaching interests, and arrange for three letters of reference to be sent to: Professor V.J. Higgins, Chair, Department of Botany, University of Toronto, 25 Willcocks Street, Toronto, Ontario, M5S 3B2 Canada by October 31, 1994. In accordance with Canadian Imigration regulations, this advertisement is directed towards Canadian Citizens and permanent residents of Canada. In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women or men, members of visible minorities, aborginal peoples and persons with disabilities.

#### **POSITIONS OPEN**

#### THE UNIVERSITY OF IOWA ASSISTANT OR ASSOCIATE PROFESSOR OF MICROBIOLOGY

The Department of Microbiology at The University of Iowa invites applications for a faculty position at the rank of ASSISTANT or ASSOCIATE PROFESSOR. This or ASSISTANT or ASSOCIATE PROPESSOR. This is a tenure-track, 12-month appointment with highly competitive start-up funds, laboratory space, salary and benefits. Applicants should have a strong background in prokaryotic biology and use molecular or biochemical approaches to study fundamental properties of bacteria Areas of interest include but are not limited to: Genetic regulation, bacterial photosynthesis, bacterial development and differentiation, stress-responses, extremophiles, and other aspects of microbial diversity or metabolism. The appointee will be expected to maintain a vigorous research program and participate in graduate and undergraduate teaching activities of the department. Inquiries are invited from all qualified applicants. Applicant should possess a Ph.D. in Microbiology or a related area, have postdoctoral research experience and demonstrated re-search ability. Applicants should send a curriculum vitae, list of publications, statement of research goals and should arrange to have three letters of recommendation sent to the Chairman of the Search Committee: Faculty Search Committee, Attention: Dr. E. Peter Greenberg, Department of Microbiology, The University of Iowa, Iowa City, IA 52242. Email: cmdepg@vaxa.weeg. uiowa.edu; FAX: 319-335-9006. Women and minority candidates are encouraged to apply. The University of Iowa is an Equal Opportunity/Affirmative Action Employer.

#### POSITION RE-ADVERTISED

The University of Nebraska-Lincoln invites application for the position of ANIMAL GENETICIST/MO-LECULAR GENETIC MARKERS AND ASSIS-TANT PROFESSOR. This is a 12-month, tenure-leading, 75% research/25% teaching position in the Department of Animal Science. The successful candidate is expected to develop a research program in molecular genetics of farm animals applicable to their genetic improvement and participate in graduate and undergraduate teaching programs. Research should seek to identify genes or genetic markers for genes that affect important production traits and investigate their potential for use in selection programs, particularly for swine. Requires a Ph.D. with training in genetics, molecular biology, and animal breeding; a record of quality publications; and evidence of teaching ability. Postdoctoral experience is preferred. Ability to work collaboratively and to communicate potential application of research effectively to the livestock industry is required. Submit application, résumé, transcripts, and the names of three references postmarked by November 1, 1994 (or until an acceptable candidate applies thereafter), to: Dr. Elton D. Aberle, Head, Department of Animal Science, University of Nebraska-Lincoln, Lincoln, NE 68583-0908. Telephone: 402-472-3571. The University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action and Equal Opportunity and is responsive to the needs of dual-career couples. We assure reasonable accommodation under the Americans with Disabilities Act: contact Dr. Aberle for more information.

#### PROFESSOR Duke University Medical Center

The Department of Molecular Cancer Biology, Duke Comprehensive Cancer Center, invites applications for a position at the rank of **PROFESSOR**. Research within the Department is focused on the genes and biochemical pathways that regulate cell growth and the molecular analysis of the disruption of such controls in cancer cells. Investigators working at the molecular level on signal transduction, oncogenes/anti-oncogenes, angiogenesis, metastasis and apoptosis are especially encouraged to apply. Applicant must have a highly distinguished record of accomplishment and be internationally recognized as a leader and innovator in cancer research. Applicant should send a letter expressing interest, curriculum vitae, grant support and list of publications. A brief description of present and proposed research would also be helpful. All inquiries will be held in confidence. Forward these to: Dr. **Robert M. Bell, Chairman, Department of Molecular Cancer Biology, Duke Comprehensive Cancer Center, Duke University Medical Center, Box 3686, Durham, NC 21170. To be assured of full consideration, the application must be received by December 15, 1994. Duke University is an Equal Opportunity/Affirmative Action Employer.**  Lawrence Berkeley Laboratory, a major R&D facility under contract with the U.S. Department of Energy and located in the San Francisco Bay Area, has several senior positions to fill within their Energy & Environment Division.

The Division has approximately 300 scientific, technical, and administrative/clerical staff members, and carries out a broad interdisciplinary R&D program in energy end-use efficiency, indoor air quality, energy supply, environmental technologies, and related policy analyses. Technology transfer and technical assistance are integral parts of the Division's activities and of these positions.

# Head of the Center for Building Science

The Center coordinates program development, R&D, and technology transfer/technical assistance activities among three buildings-related Research Programs: Building Technologies, Energy Analysis, and Indoor Environment. Also, the Center serves as a contact point for federal agencies and others interested in building technologies. The Center has a small scientific/technical/administrative staff. (Job #B/2833).

# Leader of the Division's Washington D.C. Project Office

The Office serves as a contact to offices within the Department of Energy (DOE) and other Washington-based agencies on behalf of the Division. The Leader is also expected to develop and direct research projects, such as policy analyses, for which a presence in Washington is beneficial. The Office has a small scientific/technical/administrative staff in an office suite within a few blocks of DOE Headquarters. The Leader should expect to divide time roughly 80%/ 20% between Washington and Berkeley. (Job #B/2465).

# Leader of the Lighting Systems Group

The Group is in the Building Technologies Program and works toward increased lighting efficiency, with preserved or enhanced human productivity. R&D activities include advanced lamp technologies, energy efficient fixtures, lighting design tools, and the relationship between lighting and human productivity. Some of the work is carried out through R&D subcontracts. The Group has about five staff scientists and technical/administrative support. (Job #B/2832).

# Transportation Research Coordinator

The Division views the transportation field as one of potential growth and seeks a person to develop a coordinated transportation R&D program. At present, the Laboratory has strengths in electrochemistry for advanced batteries and fuel cells, combustion and emissions, materials, sensors, advanced manufacturing techniques, and thermal management of vehicle interiors. (Job #B/2831).

Applicants should have substantial experience in one or more of the technical areas under the purview of the position, excellent communication skills, and significant management experience. For more information about the Laboratory and the Division, more detailed descriptions of the positions, and information on applying for them, please write to (include Job #): Greg Blinn, Lawrence Berkeley Laboratory, M/S 90-3026, One Cyclotron Road, Berkeley, CA 94720. Equal Opportunity/Affirmative Action Employer.



LAWRENCE BERKELEY LABORATORY UNIVERSITY OF CALIFORNIA U.S. Department of Energy



# 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 of 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 for Cooperative Research (May 15)
- Dissertation Enhancement (November 1, April 1) Summer Institute 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 93-51 (Revised 11/93). This publication is available through STIS (Science and Technology Information System), NSF's online publishing system, described in NSF 94-'4, "STIS flyer." To receive a paper copy of the flyer, call the NSF Publications Section at 703-306-1130. For an electronic copy, send an E mail message to stisfly@nsf.gov (Internet) or stisfly@nsf (BITNET). The TDD number is (703) 306-0090.

# University of Utah

The Cognition and Neural Sciences Area in the Department of Psychology has two tenure-track positions open at the Assistant Professor level. One position is in *Human Cognition*. We are particularly interested in an individual whose work reflects an interest in the influence of higher level processes (e.g., knowledge, schemata, expectancy) on lower level ones (e.g., feature analysis, attention, perception) and who has some experience and interest in computational modeling. Some possibilities include research on object perception and recognition, object-based attention, scene processing, memory and attention, and the nature and organization of knowledge. However, we will carefully consider individuals showing strong promise in any area of human cognition.

The second position is for a **Neuroethologist/Behavioral Neuroscientist**. The faculty in the Neural Sciences subprogram have interests in brain structure and processes as they relate to animal behavior and cognition. In particular, we are looking for an individual whose research evaluates the neurobiological basis of behavior from an evolutionary perspective. The ideal candidate will have strong training in neuroscience, in the analysis of complex behavior systems, and in evolutionary theory, and will be able to contribute to the University's Graduate Program in Neuroscience.

Our Cognition and Neural Sciences Area is unique in that although Human Cognition and Neural Science are strong, independent subprograms, there are strong collaborations between the two areas that enrich graduate training and the intellectual climate of the department as a whole. Our goal is to find two individuals who will build on the strength of the individual subprograms and the collaborative ties between them while having a breadth of interests that will enhance our links with other areas within the department or University, such as computer science, health, developmental, or our joint program in Cognitive and Clinical Neuropsychology. Successful candidates for both positions will have strong research programs and commitments to undergraduate and graduate instruction.

Send vitae, reprints, and statements of research and teaching interests to the appropriate search committee. Also, please arrange for three letters of recommendation to be sent directly to the committee. Candidates for the **Human Cognition** position should send these materials by **December 15**, **1994** to William A. Johnston, Cognitive Search Committee, Department of Psychology, University of Utah, Salt Lake City, UT 84112. Candidates for the **Neuroethology** position should send materials by **December 15**, **1994** to Sheri J. Y. Mizumori, Neuroethology Search Committee, Department of Psychology, University of Utah, Salt Lake City, UT 84112. Applications received after these deadlines may be considered if the positions are still open. Applications by women and ehtnic minority candidates are especially emouraged. The University of Utah is an Affirmative Action/Equal Opportunity Employer and provides reasonable accommodation to the known disabilities of applicants and employees.

#### POPULATION/EVOLUTIONARY GENETICIST

Population or evolutionary genetics, tenure-track AS-SISTANT PROFESSOR or ASSOCIATE PROFES-SOR, to begin fall 1995. Applicants must have a strong, independent research program, preferably in an area that complements our faculty's research in population and ecological genetics, molecular evolution and systematics, and the ecological genetics of species interactions. Candi-dates pursuing both theoretical and empirical research are particularly encouraged to apply. Teaching requirements will include a graduate course in population/quantitative genetics and shared responsibilities with general genetics. The appointment will be at least half-time in the Department of Genetics and Cell Biology, with the balance in either the Department of Zoology or Department of Botany. Postdoctoral experience is preferred. Screening of applications will begin November 15, 1994, and continue until the position is filled. Applicants should indicate a preference for consideration at the Assistant or Associate level. Applicants should send curriculum vitae, a statement of current research and long-term research interests, and three letters of recommendation to: Chairman, Population Genetics Search Committee, Department of Genetics and Cell Biology, Washington State Univer-sity, Pullman, WA 99164-4234. Address Email inquirto: popgen@delta.math.wsu.edu. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, Vietnam era or disabled veterans, persons of disability and/or persons age 40 and over are encouraged to apply.

#### FACULTY POSITIONS NEUROSCIENCE AND ANATOMY

The Department of Neuroscience and Anatomy of The Pennsylvania State University College of Medicine, The Milton S. Hershey Medical Center, has tenure-track AS-SISTANT PROFESSOR positions for the current and forthcoming academic years. Qualified individuals should have a Ph.D. or M.D. degree, postdoctoral training, and research interests in areas of: 1) molecular neurobiology (preference given to neuroscientists with excellent training in molecular biology) or 2) computational neuroscience. More experienced individuals may also be considered for ASSOCIATE PROFESSOR or FULL PROFESSOR positions in these or other areas of neuroscience. Appointed faculty are expected to maintain an active research program with external funding and participate in departmental teaching. Interested persons should send a curriculum vitae, a statement of research interests, and names of three referees to: Search Committee, Department of Neuroscience and Anatomy, The Milton S. Hershey Medical Center, P.O. Box 850, Hershey, PA, 17033. Deadline for applications is November 30, 1994. The Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

#### UNIVERSITY OF OREGON Faculty Position Opening in Landscape Ecology

Tenure-track ASSISTANT PROFESSOR in Landscape Ecology in Department of Landscape Architecture beginning fall 1995. For additional information contact: David W. Hulse, Search Committee, Department of Landscape Architecture, School of Architecture and Allied Arts, 5234 University of Oregon, Eugene, OR 97403-5234. Telephone: 503-346-3672; FAX: 503-346-3626; Email: dhulse@aaa.uoregon.edu. Application deadline: November 8, 1994. Equal Opportunity/Affirmative Action Institution committed to cultural diversity.

#### MICROBIOLOGIST

Tenure-track position at the ASSISTANT PROFES-SOR level beginning August 1995 for a broadly trained microbiologist studying eukaryotes or prokaryotes with demonstrated expertise in molecular biology. Candidates must possess a Ph.D., and have the potential to develop a research program involving significant undergraduate participation. Duties include teaching courses in microbiology, program, and academic advising. Applicants should send curriculum vitae, summary of research interests and names and telephone numbers of three references to: Prof. Thomas L. Koppenheffer, Chair, Department of Biology, Trinity University, San Antonio, TX 78212. Application deadline is October 14, 1994. Women and minority candidates are strongly encouraged to apply. Trinity University is an Equal Opportunity/Affirmative Action Employer.

#### **POSITIONS OPEN**

#### GENETICS

The Philadelphia College of Pharmacy and Science invites applications for the position of **ASSISTANT PROFES-SOR** in the Department of Biological Sciences, which offers four degree programs to over 100 undergraduate majors and has an excellent record in undergraduate research. The successful applicant for this **TENURE-TRACK** position will teach an upper-level course in genetics, an elective course in area of expertise, and participate in a team-taught freshman biology program. Applicants must have a strong commitment to undergraduate education and develop a research program in which undergraduates can participate. Opportunities exist for joint graduate students with the Department of Chemistry. Applicants should have completed the Ph.D. degree;

Applicants should have completed the Ph.D. degree; postdoctoral teaching and/or research experience preferred. The position is available January or August 1995. Review of applicants will begin October 10, 1994. Candidates should submit a complete curriculum vitae, a statement of career plans, transcripts, and arrange to have three letters of recommendation sent to: Dr. Margaret R. Kasschau, Chair, Department of Biological Sciences, Philadelphia College of Pharmacy and Science, 600 South 43rd Street, Philadelphia, PA 19104-4495.

The Philadelphia College of Pharmacy and Science is an Equal Opportunity/Affirmative Action Employer with a strong commitment to racial, cultural and ethnic diversity. Nominations of and applications of individuals from a broad spectrum of backgrounds are encouraged.

#### ASSISTANT PROFESSOR OF GENETICS

The Department of Botany and Plant Sciences, University of California, Riverside, announces a position available July 1, 1995. The position is an 11-month, **TENURE-TRACK APPOINTMENT** in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. The successful candidate will be expected to develop a vig quantitative genetics with applications to crop improvement. Opportunities are available for interacting with researchers in other disciplines such as statistics, population or molecular genetics, plant physiology, plant pathology, and entomology. The successful candidate will be expected to offer an advanced course in Quantitative Genetics and Biometrics and contribute to the departmental undergraduate teaching program. He/she must be willing to serve as major professor to graduate students. A Ph.D. in Genetics or a related field is required. The position requires a strong background in quantitative genetics and statistics with experience in plant systems. The candidate must possess a strong com-mitment to teaching excellence and a high research potential. Send letter of application, curriculum vitae, statement of research interest, and transcripts, and arrange to have at least three confidential letters of reference sent to: **Dr. A. E.** Hall, Chair, Botany and Plant Sciences Department, University of California, Riverside, CA 92521-0124. Telephone: 909-787-4413; FAX: 909-787-4437; Email: susanm@ucracl.ucr.edu. The application deadline is January 17, 1995. The University of California is an Affirmative Action/Equal Opportunity Employer.

#### ASSISTANT PROFESSOR Department of Biochemistry and Molecular Biology

The Biochemistry and Molecular Biology Department of the University of New Hampshire seeks candidates for a tenure-track, academic year position at the ASSIST-ANT **PROFESSOR** level. Candidates must have a Ph.D. and postdoctoral experience. We are particularly interested in candidates with research experience using molecular, bio chemical, or genetic techniques to address problems of pro-tein structure and function. The appointee will be expected to participate in undergraduate and graduate teaching and to establish an extramurally funded research program. The person would teach a one semester undergraduate general biochemistry course and another course in their specialty compatible with the graduate and undergraduate curriculum. The successful candidate will have a joint appointment in the New Hampshire Agricultural Experiment Station. The starting date will be August 1995, although an earlier date is possible. Applicants should send a curriculum vitae names of three references, and a statement of teaching and research interests by October 21, 1994, to: Dr. James A. Stewart, Department of Biochemistry and Molecular Biology, Spaulding Life Science Building, University of New Hampshire, Durham, NH 03824. The University of New Hampshire is an Affirmative Action/Equal Employment Oppor tunity Employer.

#### **POSITIONS OPEN**

#### POSITIONS IN CELL/MOLECULAR BIOLOGY AND ECOLOGY

The Department of Biology at the University of Toledo invites applications for tenure-track ASSISTANT PRO-FESSORSHIPS in the areas of Cell/Molecular Biology and Ecology. The successful candidates will be expected to contribute to undergraduate and graduate instruction as well as establish independently funded research programs which complement existing departmental expertise. Competitive salaries, facilities and start-up funds are available. In addition, the University has recently embarked on the construction of a new \$33 million Life Sciences Complex and an \$8 million Lake Erie Research Center. Applicants should submit curriculum vitae, description of research and teaching interests, reprints of publications, and have three letters of recommendation sent to: Chair, Search Committee, Department of Biology, University of Toledo, Toledo, OH 43606. The University of Toledo is an Affirmative Action/Equal Opportunity Employer, Male/Female/Disabled/Veterans. Women and minorities are encouraged to apply.

#### ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY

The University of North Dakota School of Medicine invites applications for a tenure-track (12-month) position at the rank of ASSISTANT or ASSOCIATE PRO-FESSOR of pharmacology and toxicology. Applicants should have a Ph.D. in pharmacology, toxicology, or related area. The person selected will be expected to seek board certification by the American Board of Toxicology. A major responsibility for the position is to provide supervision, consultation, and service to the North Dakota State Department of Health and Consolidated Laboratories related to alcohol measurement and intoxication, and in the general area of environmental health and risk assessment. Applicants should show potential for the development of a strong, extramurally funded research program in toxicology. In addition to a complete curriculum vitae, applications should include a letter addressing faculty rank requested, research goals, and previous experience in toxicology. Three letters of recommendation should be arranged by the candidate. Review of completed applications began September 1, 1994, and will continue until the position is filled. Submit applications to: Dr. David W. Hein, Chairman, Department of Pharmacology and Toxicology, University of North Dakota is an Equal Opportunity/Affirmative Action Employer.

#### HAVERFORD COLLEGE

The Molecular, Cellular and Developmental Biology Department seeks a tenure-track faculty member at the ASSISTANT, or possibly ASSOCIATE PROFESSO-RIAL rank for the fall of 1995. Successful applicants will teach undergraduates at all levels and receive teaching credit for maintaining an active research program with extensive undergraduate involvement. The successful candidate will teach formal and molecular genetics up to and including the junior level. A Ph.D. and postdoctoral research experience are required. Please send curriculum vitae, statements of teaching and research interests, and three letters of recommendation by November 15, 1994, to: Dr. Judy Owen, Biology Search, Haverford College, Haverford, PA 19041-1392. Haveford College is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are especially encouraged to apply.

The Department of Psychology at Brigham Young University is accepting applications for a tenure-track position at the ASSISTANT PROFESSOR level, atthough outstanding applicants at other levels will be considered. Applications will be welcomed for a position in BEHAV-IORAL NEUROBIOLOGY, with emphasis on cognition, behavioral medicine/health psychology, development, or psychopharmacology. Key criteria for successful applicants will be teaching excellence at both the graduate and undergraduate levels and commitment to maintaining an active and productive research program. Send letter of interest, curriculum vitae, and three letters of reference to: David V. Stimpson, Chair, Department of Psychology, P.O. Box 25543, Brigham Young University, Provo, UT 84602-5543. Consideration of applications will begin January 15, 1995, and continue until the positions are filled. Brigham Young University is an Equal Opportunity/Affirmative Action Employer, sponsored by the Church of Jesus Christ of Latter-day Saints and requise sobervance of Church standards (a copy of the standards is available upon request). Preference will be given to qualified LDS applicants.

#### ASSISTANT PROFESSOR OF GENETICS

Applications are invited for a tenure-track position in the Department of Genetics with primary research and teaching interests in the molecular genetics of eukaryotes. Those with research interests in fungal genetics or molecular genetic approaches to cellular and developmental biology are especially encouraged to apply. The candidate will be expected to develop a strong creative research program and have a commitment to teaching at the undergraduate and graduate levels. The appointment could begin as early as September 1, 1995. Apply before December 5, 1994 by sending a curriculum vitae, list of publications, brief statement of research interests and three letters of reference solicited by the applicant to:

#### Dr. Robert Ivarie Search Committee Department of Genetics University of Georgia Athens, GA 30602-7223

The University of Georgia is an Eqûal Opportunity/Affirmative Action Employer The Department of Genetics at the University of Georgia consists of 18 faculty members, including three members of the National Academy of Sciences. In addition to its vibrant research atmosphere, the department takes pride in the quality of its graduate student training program which is supported, in part, by NIH/NSR training grants. The selected candidate will be provided start-up funds, equipment and excellent laboratory facilities in a recently completed, state-of-the-art research building. Athens, located 70 miles from Atlanta in the rolling hills of northern Georgia, provides a pleasant, college-town, living environment. For additional information, contact Professor Robert Ivarie, chairper (706) 542-1424, fax number (706) 542-3910, or e-mail address: ivarie@bscr.uga.edu.

# Postdoctoral Position in Experimental Oncology

#### St. Jude Children's Research Hospital Danny Thomas, Founder Memphis, Tennessee

A postdoctoral position is available immediately to participate in an established research program investigating the role of chromosomal translocations in the etiology of human leukemia and lymphoma. Current studies focus on the characterization of the pathophysiologic role of the t(2;5) fusion product, NPM-ALK, in lymphomagenesis (Science 263:1281,1994) and on the molecular, biochemical and biologic analysis of the fusion protein produced by the t(3;5) rearrangement specific to acute myeloid leukemia, which our group has also recently cloned. Investigations designed to determine the normal function of the ALK protein and of the proteins altered by the t(3;5) are also in progress. In addition, a number of opportunities exist for the translational studies linking these basic research findings to medical applications for cancer diagnosis and therapeutics, as well as for the molecular characterization of other leukemia or lymphomaassociated chromosomal translocations. Candidates possessing a Ph.D. and/or M.D. degree who are interested in joining a multidisciplinary group utilizing molecular cytogenetic, molecular biologic, and biochemical techniques to understand mechanisms of malignant transformation should submit their curriculum vitae, reprints, and names of three

references by November 1, 1994 to: Dr. Stephan W. Morris, Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38101.



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#### Tenure-Track Faculty Plant Molecular Biology & Insect/Nematode Molecular Science University of Maryland Biotechnology Institute

The Center for Agricultural Biotechnology (CAB) invites applications for two tenure-track faculty positions at the level of Assistant Professor. CAB is one of four research centers of the University of Maryland Biotechnology Institute. CAB's research emphasis is the molecular biology of plant and animal improvement, specifically, plant-pathogen interactions, insect molecular genetics and evolution, poultry viruses and vaccines, and biochemical engineering. Positions will be available in Fall 1995, when CAB moves to a newly constructed and equipped research building on the campus of the University of Maryland at College Park.

Within plant molecular biology, the area of research should address basic problems in plant genetics, physiology, development and/or metabolism that pertain to agricultural biotechnology. Preferred research areas include i) the study of plant responses to pathogens and/or pests, ii) the effects of abiotic environmental stresses on plant health, or iii) other research areas that relate to improving plant productivity.

Within insect or nematode molecular science, the research area should be of general significance, have a readily identifiable link to agriculture, and could be within the disciplines of genetics, development, biochemistry, physiology or molecular ecology. Examples of areas that would be considered include i) molecular genetics of plant or animal disease vectors that focus on invertebrate-symbiont interactions or on invertebrate-host interactions, ii) invertebrate pathology, including virology, iii) molecular genetics of fundamental physiological processes such as olfaction, immunity, pheromone/hormone synthesis, circadian rhythms and diapause, iv) molecular analysis of genetic processes such as sex determination, segregation distortion and chromosome loss.

The applicant's research program must be sustainable in a competitive funding environment. The investigator is expected to build a dynamic research group within the setting of an interdisciplinary research institute. For full consideration, submit current CV, selected reprints, short summary of research interests, and names of three recommenders by December 1, 1994 to:

Faculty Search Committee Center for Agricultural Biotechnology University of Maryland Biotechnology Institute 2113 Agriculture/Life Sciences Surge Bldg College Park, Maryland 20742

UMBI is an affirmative action, equal opportunity employer.

# **System Program Director**

National Polar Orbiting Environmental Satellite System

Department of Commerce

#### National Oceanic and Atmospheric Administration (NOAA) Pay: \$96,830 to \$120,594

The newly established National Polar Orbiting Environmental Satellite System (NPOESS) will be managed through the creation of an integrated program office. The office is comprised of personnel and functions from DOC/NOAA, DoD and NASA, and is located in Silver Spring, Maryland. The System Program Director is a key Senior Executive Service position within NOAA and is responsible for planning, design, development, testing and operation for the NPOESS. The incumbent defines and develops program objectives, strategies, and management methods for establishing and maintaining NPOESS services. Through initiation, replacement and improvement of system components, for space, ground and communications, mechanisms are developed to enable and assure that the component mix is efficient and contributes to performance. Briefings and negotiations with senior representatives from other agencies, foreign and domestic, are conducted in collaboration with the tri-agency partnership.

The position requires a broad knowledge and extensive experience in physical sciences, engineering or mathematics, as related to satellite development programs; professional experience in application of theories, principles and practices of modern system development; and planning and directing large-scale technology programs. "Special Sensitive Position": Background Investigation required.

For application material, please contact: Heidi K. Smith or Reneé Loudermill, NOAA, Human Resources Management Office.

**301-713-0530** Vacancy closes Oct. 21. 1994

Equal Opportunity Employor

MICROBIOLOGIST: The Department of Life Sciences at Indiana State University invites applications for an expected position at the ASSISTANT PROFESSOR level, tenure-track. Applicants must have a Ph.D. and a record of research excellence. The successful applicant will be expected to develop a strong, extramurally funded research program, direct Ph.D. student research, and teach effectively at both the undergraduate and graduate levels. Preference will be given to applicants using molecular approaches in areas including but not limited to virology, bacteriology, parasitology, and/or immunology. Teaching duties include general microbiology. Applicants should submit a curriculum vitae, concise descriptions of research and teaching interests, up to three recent reprints, and have three letters of reference sent to: Gary W. Stuart, Chair, Microbiologist Search Committee, Department of Life Sciences, Indiana State University, Terre Haute, IN 47809. Telephone: 812-237-2400; FAX: 812-237-4480. Review of applications begins October 24, 1994, and will continue until the position is filled. Indiana State University is an Affirmative Action/Equal Access/Equal Opportunity Employer. Applications from women and members of minorities are strongly encouraged.

#### TWO TENURE-TRACK FACULTY POSITIONS IN MARINE BIOLOGY

are available in the Department of Biology at UCLA due to an expanding marine science program which includes the development of a marine teaching aquarium. revitalization of the Wrigley Marine Science Center on Catalina Island, and a growing undergraduate and graduate program in marine science. One position may be filled at a SENIOR level, the other will be filled at the ASSISTANT PROFESSOR level. A Ph.D. is required and postdoctoral experience is desirable. Successful candidates will be expected to have outstanding research programs and to participate enthusiastically in both grad-uate and undergraduate teaching. We are especially interested in organismal marine biologists whose research contains a strong field component. Applications are encour-aged from individuals whose research interests include behavioral ecology or ecological physiology of plants, in-vertebrates or vertebrates. Faculty hired will be expected to have a significant portion of their research based at the Wrigley Marine Science Center on Catalina Island and to participate in teaching courses at that facility. Applicants should send curriculum vitae, statement of research and teaching interests, and the addresses and telephone numbers of three references by November 1, 1994, to: Pro-fessor James G. Morin, Marine Biology Search, De-partment of Biology, University of California, Los Angeles, CA 90024-1606.

The University of California, Los Angeles, is an Affirmative Action/Equal Opportunity Employer. Women, minorities, and persons with disabilities are encouraged to apply.

#### UNIVERSITY OF MICHIGAN

The Department of Obstetrics and Gynecology at the University of Michigan is seeking applications at the **AS**-**SISTANT** or **ASSOCIATE PROFESSOR** level for a tenure-track position with a joint appointment in a Basic Science department of the Medical School. Outstanding individuals with research experience or interests in preimplantation biology, developmental biology, signal transduction mechanism in tumorigenesis or regulation of gene expression by reproductive hormones are sought. Individuals working with higher eukaryotic systems are encouraged to apply. The successful candidate will be expected to estaplish an active, externally funded research program. Other responsibilities will include teaching and participation in the graduate training program in the Medical School. New research facilities and strong interdisciplicants should send curriculum vitae and bibliography, a biref, description of current and future research directions, and request three letters of reference be sent to:

#### Timothy R.B. Johnson, M.D. Professor and Chair Department of Obstetrics and Gynecology University of Michigan Medical Center D2202 MPB, Box 0718 Ann Arbor, MI 48109-0718

Deadline of applications is December 15, 1994. The University of Michigan is an Affirmative Action/Equal Opportunity Employer. Applications from qualified women, minorities, and/or disabled individuals are encouraged.

#### **POSITIONS OPEN**

#### AUDITORY SYSTEMS PHYSIOLOGIST

A full-time faculty position at the ASSISTANT/AS-SOCIATE/FULL rank is available at the Kresge Hearing Research Institute, Department of Otolaryngology, The University of Michigan Medical School. Applicants should have a Ph.D. in Physiology, Psychology, Neuroscience, or Bioengineering and at least two years of postdoctoral experience relating to sensory physiology or psychophysics. Primary responsibilities will include the development of a strong independent research program and collaboration with investigators studying aspects of the normal functioning and dysfunction of the auditory system, including molecular biology and genetics, pharmacology, biochemistry, psychophysics and audiology, and physiology. In addition, participation in the teaching of undergraduate, graduate and medical students, residents in Otolaryngology, and postdoctoral fellows in the biomedical auditory sciences will be expected. The successful candidate may be considered for a joint appointment in an appropriate basic science discipline. Please send curriculum vitae, statement of research interests, recent publications, and names of three references to the chair of the search committee: Dr. David B. Moody, Kresge Hearing Research Institute, University of Michigan, 1301 East Ann, Ann Arbor, MI 48109-0506. Applications accepted until November 30, 1994. A Non-Discriminatory/ Affirmative Action Employer. Women, minority and applicants with disabilities are specifically encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR (tenure-track): The Department of Bacteriology, University of Wisconsin-Madison, is most interested in persons employing molecular approaches to study microbial gene expression, ecology, bioremediation, physiology, diversity or structure function. Ph.D. degree in microbiology or related discipline with at least two years of postdoctoral experience. The individual will establish an extramurally funded research program and participate in undergraduate and graduate teaching, training and advising. Women and minorities are strongly encouraged to apply. Please send a detailed curriculum vitae, including research accomplishments and interests, a list of publications and three letters of recommendation to: Search Committee, Department of Bacteriology, University of Wisconsin-Madison, 1550 Linden Drive, Madison, WI 53706-1567. Application deadline: December 1, 1994. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

The Departments of Molecular and Human Genetics, and Pediatrics are jointly recruiting a **DIRECTOR** for the Baylor College of Medicine Mental Retardation Research Center (MRRC). The Baylor MRRC was founded in 1988, and is one of the 14 NICHD-supported Centers dedicated to the study of the prevention, treatment, and amelioration of mental retardation and developmental disabilities. The Baylor MRRC currently supports eight core laboratories, 53 research projects, 48 investigators from 13 departments, and one New Project Development Awardee. The successful applicant will be a Physician Scientist with an established research commitment to the molecular biology of mental retardation. Board certification in a Medical Genetics specialty and Pediatrics are desirable. Applicants should send a letter describing their commitment to mental retardation research and a current curriculum vitae, and should request that three letters of reference be sent to: C. Thomas Caskey, M.D., Chairman, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

The University of Illinois at Chicago Department of Psychology invites applications for a tenure-track ASSIST-ANT PROFESSOR or beginning (tenured) ASSOCI-ATE PROFESSOR in Biopsychology beginning in fall 1995. Applicants must have a Ph.D. and an active research program in behavioral or integrative neuroscience, employing animal models with an emphasis on central mechanisms. Submit letter of application, curriculum vitae, and three letters of reference to: Dr. David Wirtshafter, Chair, Biopsychology Search Committee, care of Cheryl McMillan, Department of Psychology (M/C 285), The University of Illinois at Chicago, 1007 West Harrison Street, Chicago, IL 60607-7137. Applicants should provide evidence of their potential to teach effectively and conduct productive research. To ensure full consideration, applications should be received by November 15, 1994. Equal Opportunity/Affirmative Action Employer.

#### ASSISTANT PROFESSOR OF PHARMACOLOGY

The F. Edward Hébert School of Medicine of the Uniformed Services University of the Health Sciences (USUHS) invites applications for a tenure-track position of **ASSISTANT PROFESSOR** in the Department of Pharmacology. Applicants must have a Ph.D. or M.D. degree, a vigorous research program with the potential to develop significant extramural funding, and a commitfaculty employing cellular and molecular approaches to existing areas of research strength; these include: signal transduction, neuropharmacology, drug metabolism and toxicology, and clinical pharmacology. Research facilities and environment for professional development are excellent. A generous start-up package including equipment, research supplies, and technical support is available. Fac-ulty salaries are fully supported from University resources. Review of applications will begin in November 1994 and will continue until the position is filled. Applicants should submit a curriculum vitae and bibliography, the names of three references, and a statement of current and future research interests to: Uniformed Services University of the Health Sciences, CHR (JK/PR), 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Foreign nationals will be considered only if qualified United States citizens are not available. USUHS is an Equal Opportunity/ Affirmative Action Employer strongly committed to racial, cultural, and ethnic diversity.

#### EVOLUTIONARY BIOLOGIST DEPARTMENT OF ECOLOGY AND EVOLUTIONARY BIOLOGY University of Arizona Tucson, Arizona

The Department of Ecology and Evolutionary Biology seeks a biologist studying evolutionary change or diversification, preferably making use of molecular approaches. Ph.D. required. The successful candidate is expected to achieve excellence in research and teaching at the undergraduate and graduate levels. The research could focus on any group of organisms, at any scale (from processes within populations to large-scale phylogenetic patterns), and on any aspect of evolution (e.g., speciation or genomic or developmental evolution). We expect to fill the position at the level of ASSISTANT or ASSOCIATE PROFES-SOR Salary commensurate with level and experience

**SOR.** Salary commensurate with level and experience. Application Deadline: December 16, 1994, or until filled. Please send curriculum vitae, statement of research and teaching interests and three letters of recommendation to: Dr. Richard E. Michod, Chair, Search Committee, Department of Ecology and Evolutionary Biology, Biological Sciences West 310, University of Arizona, Tucson, AZ 85721.

The University of Arizona, an Equal Opportunity/Affirmative Action/ADA Employer, encourages applications from women and members of underrepresented minority groups.

FACULTY POSITION IN SYSTEMATIC EN-TOMOLOGY. Applications are invited for a 12-month tenure-track position at the ASSISTANT PROFES-SOR level in the Department of Entomology, Louisiana State University. Candidates must have a Ph.D. and are expected to develop an externally funded research program in systematics using contemporary research methods. Teaching requirements include an undergraduate/ graduate insect systematics course and a graduate course in area of interest. Send letter of application, curriculum vitae, research goals, and names and addresses of four references by November 1, 1994, to: Dorothy Pashley, Entomology Department, Louisiana State University, Baton Rouge, LA 70803. Louisiana State University is an Equal Opportunity/Affirmative Action Employer.

The Division of Endocrinology of the University of Mississippi Medical Center invites applications for faculty positions for CLINICIAN/RESEARCHERS at the levels of ASSISTANT or ASSOCIATE PROFESSOR. Applicants holding an M.D. degree who are Board-Certified/Eligible in Endocrinology preferred. Opportunities exist to perform basic or clinical research at a dynamic and growing state-supported academic Medical Center as well as to participate in the development of a diabetes clinical program and in student and housestaff teaching. Send curriculum vitae to: Don McClain, M.D., Ph.D., Director, Division of Endocrinology, Department of Medicine, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216. Equal Opportunity Employer, Male/Female/Disabled/Veterans.

#### SCIENCE ADMINISTRATOR

**Regeneron Pharmaceuticals, Inc.** is at the forefront of research in the use of neuronal growth proteins for the treatment of degenerative and traumatic neurological disorders. Currently, we are seeking a highly effective Administrator to assume a central role in this major project.

Working closely with members of our senior scientific staff and legal team, this newly created position is responsible for coordinating collaborations with Investigators at key Universities, Government Laboratories and Corporations. Duties include directing the flow of information and materials, as well as maintaining follow-up records. Protecting the company's intellectual property is a top priority.

Qualified candidates will have a Master's degree, or a Bachelor's degree with laboratory experience in science with a background in molecular or cellular biology and/or neurobiology. Excellent interpersonal and communication skills, and the ability to perform with a sense of urgency, are essential.

Our modern facility, located 20 miles north of Manhattan on a multi-acre wooded campus in Westchester county provides a supportive, highly collegial setting for decisive career development. As a visible member of our staff you will receive a competitive salary and attractive benefits. For consideration send resume and salary history in confidence to: Human Resources, SA, Regeneron Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591-6706.

#### The Hopkins Marine Station of Stanford University Announces the Availability of The David and Lucile Packard

Chair in Marine Biology

The Hopkins Marine Station of Stanford University invites applications for the *David and Lucile Packard Chair in Marine Biology*. We seek candidates who have made outstanding scholarly contributions in marine biology and who would like to focus a significant portion of their future research on the biota of Monterey Bay and its surrounding waters. We are particularly interested in candidates who are intellectually broad based with preference given to experimental biologists who use an interdisciplinary approach to fundamental biological questions. Candidates with expertise at any level of analysis (e.g., molecular, cellular, organismic, ecological, or population) are encouraged to apply, especially those with a significant portion of their research focused at the organismal level or above.

The successful candidate will be expected to participate in the undergraduate and graduate teaching programs at the Marine Station and develop new courses in their area of expertise.

The appointment will be made at the full professor level in Stanford's Department of Biological Sciences with residence at the Hopkins Marine Station.

Applications, including research interests, *curriculum vitae*, and the names of five references, should be sent to: Marine Biology Search Committee, Hopkins Marine Station, Stanford University, Pacific Grove, CA 93950, no later than October 30, 1994.

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

#### **NEUROBIOLOGY**

University Of Utah

The Department of Biology at the University of Utah is seeking applications for one or two tenure-track positions in Neurobiology. Outstanding candidates in areas ranging from the neural basis of behavior to molecular neurobiology will be considered. We are looking for colleagues with broad interests in biology, who will interact productively with other members of our department, and who will establish strong independent research programs. The Department's faculty have research interests that span all of biology, from ecology and evolution through physiology, cell biology and biochemistry. Applications should have strong commitments to undergraduate teaching and research, as well as to graduate education. Rank is open. Applicants should submit a curriculum vitae, statement of research interests, and copies of up to four recent publications to the Neurobiology Search Committee, Department of Biology, University of Utah, Salt Lake City, UT 84112. Applicants should also arrange for at least three letters of recommendation to be sent to the same address. Review of applications will begin November 1, 1994, and will continue until the appointments are made.

#### ECOLOGY

University of Utah

The Department of Biology invites applications for one or two tenure-track faculty positions in ecology. Outstanding candidates will be considered regardless of specialty, but we will be particularly interested in applications from individuals who work in:

• behavioral ecology,

- evolutionary ecology,
- · community ecology,
- ecosystem ecology.

We are looking for colleagues who will add diversity and strength to our program in ecology and evolution, and who will interact productively with other members of our department, which spans all of biology. Applicants should have strong commitments to undergraduate teaching as well as to research and graduate education. Rank is open. Applicants should submit a curriculum vitae, statement of research interests, and copies of up to four recent publications to the Ecology Search Committee, Department of Biology, University of Utah, Salt Lake City, UT 84112, and should arrange to have three or four letters of recommendation sent to the same address. Review of applications will begin November 1, 1994, and will continue until these appointments are made.

The University of Utah is an AA/EO employer. It encourages applications from women and minorities and provides reasonable accommodation to the know disabilities of applicants and employees.

# Leading The Way In The Medical Devices Industry

Miami Lakes-based **CORDIS CORPORATION** is one of the world's leading developers, manufacturers and marketers of catheters and related accessories for diagnostic and interventional cardiology and radiology as well as devices for neuroscience, neuroradiology and electrophysiology. Recently named the Miami Herald's "1993 Florida Company of the Year," Cordis accomplished a major turnaround over the past 5 years and is now achieving record highs in technical, operational and financial performance. We currently have an immediate opening for a

# **Pre-Clinical Study Coordinator**

Responsibilities include pre-clinical study protocol development and study monitoring, providing guidance in site evaluation and selection, assisting in the establishment of contractual relationships, and acting as Study Director by incorporating study results into regulatory submissions. To qualify, you must have a DVM, PhD, MD or equivalent plus 5 years related experience and a background in business/contract negotiations. In addition, a working knowledge of GLP regulations, Medical Device Safety Testing, and Medical Device Regulations and Registration requirements is essential.

Cordis offers competitive compensation including a 401(k) plan, educational assistance and a generous relocation package. Qualified candidates should forward resumes to: CORDIS CORPORATION, Attn: Employment, 14201 NW60th Avenue, Miami Lakes, FL 33014 or Fax to (305) 824-2020. An equal opportunity employer m/f.



#### ACADEMIC POSITION

ASSISTANT PROFESSOR. The Department of Chemistry and Biochemistry of The University of Texas at Austin solicits applications for a tenure-track ASSIST-ANT PROFESSORSHIP position beginning September 1995. Exceptional candidates in all areas of chemistry/biochemistry including chemical education will be considered. Candidates who have demonstrated outstanding research ability and show promise in teaching should forward a curriculum vitae, short descriptions of research plans, and three letters of reference by November 1, 1994, to: Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712. Equal Opportunity/Affirmative Action Employer.

MOLECULAR, CELLULAR, OR SYSTEM NEUROBIOLOGIST. A tenured or tenure-track position is available immediately for a neurobiologist using molecular, cellular, or systems approaches to study neural organization, development, or plasticity. The position provides freedom of time to pursue research, a competitive 12-month salary, excellent core facilities, and generous start-up funds and laboratory space. Candidates for an. ASSISTANT PROFESSORSHIP should have an ability to establish an independent and funded research program. Candidates for more SENIOR APPOINT-MENTS should have an ongoing, funded program. Send curriculum vitae, a brief statement of research interests, and names of three references by November 18, 1994, to: Chairman, Faculty Search Committee, Department of Anatomy and Neurobiology, Medical College of Ohio, Toledo, OH 43699-0008. Equal Opportunity/Affimative Action Employer.

#### ASSISTANT PROFESSOR DEVELOPMENTAL BIOLOGY

**TENURE-TRACK POSITION** begins September 1995. Commitment to excellent research-oriented undergraduate education required. Research with a vertebrate system preferred. Teach developmental biology, vertebrate morphology, introductory biology, and occasionally in university's freshman program. Opportunity to develop specialty courses and to participate in interdisciplinary programs. Significant postdoctoral research experience desired. Send curriculum vitae, undergraduate and graduate transcripts, brief description of research and teaching interests, three letters of reference to: Dr. Bradford Rence, Department of Biology, Lawrence University, Appleton, WI 54912 by December 1, 1994. Affirmative Action/Equal Opportunity Employer: women and minority candidates especially encouraged to apply.

#### FACULTY POSITION BIOLOGICAL CHEMISTRY

The Department of Chemistry at the University of North Carolina at Chapel Hill invites applications for a **TENURE-TRACK POSITION** in biological chemistry. The successful applicant must have a Ph.D., postdoctoral experience, a strong record of research, and the ability to teach biological chemistry effectively at the undergraduate and graduate levels. Preference will be given to individuals who can establish a strong research program in biological chemistry, interact enthusiastically with other chemists and whose appointment would be at the rank of **ASSISTANT PROFESSOR**. Review of the applications will begin October 15, 1994. Send a curriculum vitae, a brief research plan, a statement of teaching interests and four-letters of recommendation to: Dr. Linda Spremulli, Department of Chemistry, CB No. 3290, University of North Carolina, Chapel Hill, NC 27599-3290. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

#### ASSISTANT PROFESSOR, BIOLOGY WEST GEORGIA COLLEGE

Applications are invited for a tenure-track position. Ph.D. required; postdoctoral experience preferred. The applicant must have research background in Immunology preferably with the ability to teach serology, hematology or other clinical laboratory science. Send curriculum vitae, copies of publications, and letters from three references to: Dr. James N. Mathis, Chairperson Biology Search Committee, West Georgia College, Carrollton, GA 30118. Screening will begin November 15, 1994, and will continue until a suitable candidate is found. Inquiries: telephone: 404-836-6547 or Email:jmathis@sun.cc.westga. edu. An Affimative Action/Equal Opportunity Employer.

#### **POSITIONS OPEN**

#### EVOLUTIONARY ECOLOGIST

Northern Illinois University anticipates a position for a tenure-track **ASSISTANT PROFESSOR** for fall 1995. A Ph.D. and postdoctoral research experience are required. The successful candidate is expected to develop a vigorous externally funded research program, direct graduate (M.S. and Ph.D.) students, and teach introductory courses for majors and non-majors.

courses for majors and non-majors. The candidate's expertise should complement the existing program in ecology and evolutionary biology with preference given to candidates working on field studies of vertebrates, plants, or plant-animal interactions. Teaching obligations will alternate between biostatistics and courses in ecology and evolution.

Send a letter of interest, curriculum vitae, brief statement of research goals and teaching goals, representative reprints, and three letters of reference by November 1, 1994, to: Dr. Marvin Starzyk, Chair, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115-2861. Telephone: 815-753-1753. Northem Illinois University is an Affirmative Action/Equal Opportunity Employer.

#### CELL BIOLOGIST

ASSISTANT PROFESSOR/Tenure-Track. The Department of Zoology at the University of Georgia is reorganizing as the Department of Cellular Biology. We seek a new colleague addressing significant problems in cell biology at the cellular/molecular level. Areas of interest include intercellular interactions, signal transduction, cell cycle regulation, cell polarity, and the organization and assembly of cellular structures. The successful candidate will be expected to develop an independent, externally funded research program, direct graduate students, and participate in teaching in our undergraduate and graduate curricula in cell biology. To apply, send curriculum vitae, description of research and teaching interests, and at least four letters of recommendation to: Marcus Fechheimer, Chair of Search Committee, Department of Zoology, University of Georgia, Athens, GA 30602.

Applications received by November 1, 1994, are assured of consideration. The University of Georgia is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

GEORGETOWN UNIVERSITY. The Department of Chemistry invites applications for two tenure-track faculty positions at the ASSISTANT PROFESSOR level in the areas of: bioehemistry, inorganic chemistry, organic chemistry. Preference will be given to applicants with strong records of research accomplishment (and research plans) in X-ray crystallography or NMR spectroscopy. Successful candidates should be committed to excellence in-both undergraduate and graduate education, and will be expected to establish vigorous, well-funded research programs. Applicants should send, by November 15, 1994, a curriculum vitae, a summary of research plans, and the names of three references whom we may contact directly, to: Chair, Recruiting Committee, Department of Chemistry, Georgetown University, Washington, DC 20057-2222. Georgetown is an Equal Opportunity/Affirmative Action Employer; applications from women and underepresented minorities are encouraged.

#### ASSISTANT/ASSOCIATE PROFESSOR

The Division of Medicinal Chemistry and Natural Products, School of Pharmacy at The University of North Carolina at Chapel Hill has a tenure-track position available at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D. degree. Experience in either molecular biology or physical biochemistry are desirable; however, strong applicants in all areas related to medicinal chemistry will be considered. Candidates will be expected to develop a vigorous, independent research program and must have a strong commitment to undergraduate and graduate teaching. The search will remain open until position is filled. Interested individuals should submit curriculum vitae, a description of current and future research/teaching interests, and three letters of recommendation to: **Dr. Kenneth Bastow, Chairman, Search Committee, Division of Medicinal Chemistry and Natural Products, School of Pharmacy, Beard Hall CB No. 7360, The University of North Carolina, Chapel Hill, NC 27599-7360. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.** 

#### **POSITIONS OPEN**

#### ASSISTANT PROFESSORSHIP BIOCHEMIST/BIOPHYSICIST STANFORD UNIVERSITY

The Department of Biological Sciences invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek individuals using biochemical and biophysical approaches to study basic cell biological problems. This could include the study of macromolecular interactions and mechanisms in process such as DNA replication, RNA transcription, protein transport, cytoskeletal function, signal transduction, cell cycle regulation, and organelle assembly. Applications from women and members of minority

Applications from women and members of minority groups are strongly encouraged. Applicants for this position should send a letter of application, a curriculum vitae, a statement of research interests, a statement of teaching experience and interests and the names/addresses of three references to:

Biochemistry/Biophysics Search Committee Department of Biological Sciences Gilbert Room 109 Stanford University Stanford, CA 94305-5020 The closing date for applications is November

The closing date for applications is November 30, 1994.

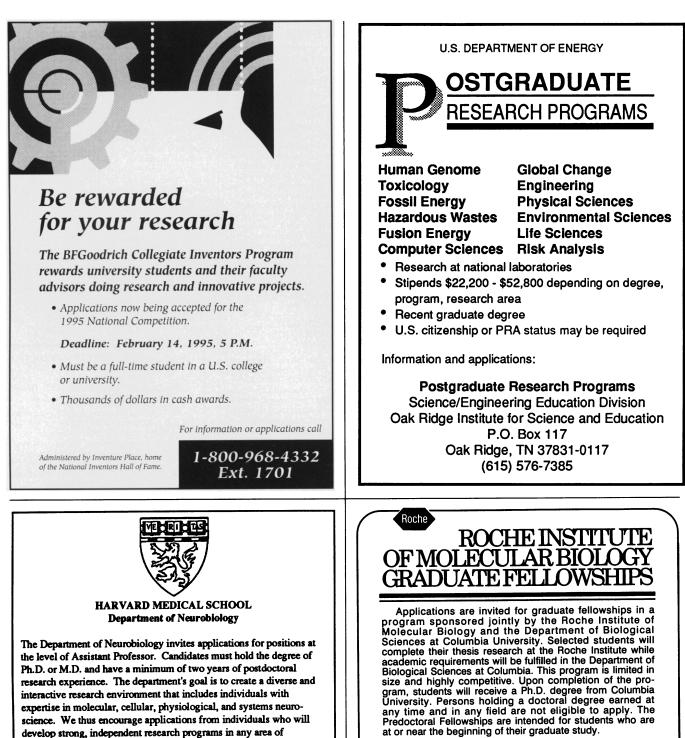
DEVELOPMENTAL BIOLOGIST, Eastern Michigan University: Tenure-track ASSISTANT PROFES-SORSHIP available fall 1995. Department of Biology consists of 23 full-time faculty, offers undergraduate and graduate M.S. programs. We seek a developmental biologist working at the molecular level, able to teach developmental biology and genetics. Position requires Ph.D., teaching experience, successful research program capable of attracting external funding. Submit letter of interest, curriculum vitae, transcripts, descriptions of research and teaching interests/philosophy, recent reprints, three letters of reference by October 31, 1994, to: Position F9501, 204 King Hall, Eastern Michigan University, Ypsilanti, MI 48197. For additional information contact: Dr. Douglas Shapiro, Department Head, telephone: 313-487-4242. Women and members of minority groups encouraged to apply. Affirmative Action/Equal Opportunity Employer.

#### DUKE UNIVERSITY Tenure-Track Assistant Professor In Pharmacology

Exceptional candidate at a higher level will also be considered. To complete a dynamic department we seek a molecular/cellular pharmacologist studying any aspect of cellular signaling. An emphasis on novel therapeutic strategies and drug discovery relevant to cancer or neurological disorders is desirable. The review of applications will begin on January 3, 1995. Submit a curriculum vitae, summary of research accomplishments, description of future research plans, copies of primary publications and arrange to have three letters of recommendation forwarded to: Chairman, Faculty Search Committee, Department of Pharmacology, Box 3813 DUMC, Durham, NC 27710. We are partiallarly eager to diversify our faalty and encourage women and minority candidates to apply. Duke University is an Equal Opportunity Affirmative Action Employer.

#### FACULTY POSITIONS CORNELL UNIVERSITY MEDICAL COLLEGE DEPARTMENT OF PHARMACOLOGY

Candidates are sought for two tenure-track positions at the level of ASSISTANT or ASSOCIATE PROFES-SOR. Candidates with interests in a wide range of areas related to the discipline of pharmacology will be considered. The responsibilities of this position include development of an active, independent research program and participation in both medical and graduate student teaching programs in the department. Applicants should send a curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three scientists who can evaluate the candidate's accomplishments. Cornell University Medical College is a part of the New York Hospital–Cornell Medical Center and Adjacent to Memorial Sloan Kettering Cancer Center and Rockefeller University. Applications should be sent to: Chair, Pharmacology Department, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Opportunity Employer/Affirmative Action/Male/ Female/Disabled/Veterans.



neuroscience, but who are also interested in an exchange of ideas and

interested in women and minority candidates.

Employer.

information among scientists taking diverse approaches to the study of nervous system development and function. We are especially

Applicants should send a curriculum vitae, a brief statement of research accomplishments and plans, and the names of three individuals who

Gerald D. Fischbach Chairman

Department of Neurobiology Harvard Medical School

220 Longwood Avenue Boston, MA 02115

Harvard Medical School is an Equal Opportunity/Affirmative Action

might write on their behalf, before December 15, 1994 to:

The Roche Institute of Molecular Biology, founded in 1967, is dedicated to basic research in emerging areas of molecular biology. Staff members enjoy complete independence in their choice and pursuit of research problems. The Institute is located in suburban New Jersey, approximately 10 miles west of Manhattan, making it readily accessible for lectures and courses at Columbia University and other educational centers in New York City.

Fellowships include stipend, paid tuition, scientific meeting travel support and additional benefits. GRE and TOEFL scores are required. Applications must be received by January 1, 1995 to be considered for the 1995-96 academic year.

For further information and application forms contact: Administrative Office - Graduate Program, (201) 235-2783. Roche Institute of Molecular Biology, Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche A Member of the Roche Group

#### VALDOSTA STATE UNIVERSITY Head, Department of Biology

Tenure-track, fiscal year position as **HEAD** of the Department of Biology, Valdosta State University, at the rank of associate or full professor beginning 1 July 1995. Ph.D. in one of the biological sciences required, plus strong teaching and research skills; some administrative experience preferred.

Department includes 20 full-time faculty and over 450 undergraduate majors, offers B.S. degree in biology, and provides important service courses for both the Colleges of Education and Nursing.

Letter of application; a current curriculum vitae; transcripts of all undergraduate and graduate work; a summa-ry that includes research interests, teaching philosophy, and administrative experience (if applicable); and letters from at least three references must be received by 15 November 1994. Send to: Thomas E. Dasher, Acting Dean, College of Arts and Sciences, Valdosta State University, Valdosta, GA 31698. Affirmative Action/ Equal Opportunity Employer.

#### FACULTY POSITION CHIEF, COMBINED RESEARCH PROGRAM IN CARDIOVASCULAR SCIENCES AND MOLECULAR CARDIOLOGY

The Departments of Physiology and Internal Medicine at Texas Tech University Health Sciences Center seek to recruit a CHIEF for a combined research program in Cardiovascular Sciences and Molecular Cardiology. This program will consist of faculty and research space in both of the above departments. Interested faculty in other de-partments will be identified by the Chief. In general, faculties with a Ph.D. will have a primary appointment in the Department of Physiology, while those with an M.D. will have their primary appointment in the Department of Internal Medicine. All appointments are in the tenure track; rank is dependent on prior experience. The Pro-gram Chief must be qualified to participate in the appropriate clinical programs which are in the Department of Internal Medicine and thus, must be an M.D. The Division of Cardiology is responsible for a successful Cardio-vascular Fellowship Program as well as for the day-to-day operations of its clinics and in-patient services. Send cur riculum vitae, a statement of research interests, relevant reprints and the names of three references by December 1, 1994, to: Dr. James Buell, Professor and Chief of Cardiology, Department of Internal Medicine, Dr. Sandra Sabatini, Chairman, Department of Physiology, Professor of Physiology and Internal Medicine, or Dr. N.A. Kurtzman, Chairman, Department of Internal Medicine, Texas Tech University HSC, 3601 4th Street, Lubbock, TX 79430. An Equal Opportunity. Affirmative Action Employer.

#### DIRECTOR MARINE RESOURCES CENTER OF THE MARINE BIOLOGICAL LABORATORY

The Marine Biological Laboratory (MBL) seeks highly qualified applicants or nominations for the position of **DIRECTOR** of the Marine Resources Center (MRC). The Director will be responsible for conducting an active biological research program using marine organisms, and for overseeing the marine resources department and the operations of the MRC, a new 32,000-square-foot facility for biological research and marine animal husbandry. The Director will hold a position as Senior Scientist at the Laboratory and will report directly to the Director of the MBL.

Required qualifications include a Ph.D. or equivalent in a biological science, an active research program that uses marine organisms, an excellent record of publications in order to meet the standards for appointment as a Senior Scientist, strong management capabilities and interpersonal skills, and an ability to interact with the MBL com-

munity. The search will remain open until a successful candidate is identified. Review of applicants will begin on December 15, 1994. Applications, or nominations, including a curriculum vitae and the names of at least three references, should be sent to:

Chair, MRC Search Committee Human Resources Department A Marine Biological Laboratory Woods Hole, MA 02543

Equal Opportunity/Affirmative Action/Non-smoking workplace.

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#### **POSITIONS OPEN**

#### NMR FACILITY DIRECTOR RESEARCH ASSISTANT PROFESSOR University of Vermont

The Department of Biochemistry of the University of Vermont College of Medicine has an immediate opening for a **SPECIALIST** in biological NMR. This person will be responsible for maintaining, operating and scheduling a new 500 MHz instrument, for teaching faculty, postdoctoral associates and graduate students in the proper operation of the instrument, for assisting investigators in operation of the instrument, for assisting investigators in design of NMR experiments, including the implementa-tion and use of pulse sequences, and for collaborative research efforts with users. This person will be free, but not required, to seek outside funding to establish his or her own research program. Salary is negotiable and will be commensurate with the background and experience of the candidate. Interested candidates ought to submit a résumé, complete description of NMR experience and the names of three references. Submit application materials to: Chair, Search Committee, Department of Bio-chemistry, Given Building, University of Vermont, Burlington, VT 05405-0068. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and people of diverse racial, ethnic and cultural backgrounds are encouraged to apply. Deadline is November 1, 1994.

#### EVOLUTIONARY BIOLOGIST COMPARATIVE PHYSIOLOGY/ DEVELOPMENT

The Department of Biology, University of Miami, invites applications and nominations for a tenure-track po-sition at the level of ASSISTANT PROFESSOR. We seek an evolutionary biologist to join a faculty with strengths in ecology, behavior, and evolutionary biology. tionary approach to studies in comparative physiology or developmental biology of plants or animals. Ph.D. degree required. The successful candidate will be expected to develop an innovative, externally funded research pro-gram, and to participate in teaching at the undergraduate and graduate levels. Applicants should send curriculum vitae, representative reprints, summary of research inter-ests, and names and addresses of three references to: Julian C. Lee, Chair, Search Committee, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124-0421, by 15 November 1994. The University of Miami is an Equal Opportunity/Affirmative

Action Employer, and a smoke/drug-free workplace. WAYNE STATE UNIVERSITY CHAIRPERSON

# Department of Anatomy and Cell Biology

.The School of Medicine at Wayne State University invites applications and nominations for the position of **CHAIR** of the Department of Anatomy and Cell Biology. The department has strong research programs in the areas of vision and neuroscience and we hope to attract an individual who will complement and/or enhance these areas of expertise. Candidates should have a distinguished record of scientific achievement, proven administrative and leadership skills, and a commitment to quality teach-ing in the anatomical disciplines.

Applicants should submit a statement of interest, a cur-November 1, 1994, to: Gary W. Abrams, M.D., Chair-man, Search Committee, Kresge Eye Institute, 4717 St. Antoine, Detroit, MI 48201.

#### PROGRAM DIRECTOR FOR SLSTP

A PROGRAM DIRECTOR position is open at Florida A&M University (FAMU) in the NASA-sponsored Space Life Sciences Training Program (SLSTP). Duties include serving as a Program Director in conducting the day-to-day operations of the program in consultation with the Kennedy Space Center in Florida. An applicant must possess a Ph.D. degree in Life Sciences or related areas and some experience in teaching and research at a college or university. Please submit a detailed curriculum vitae and three letters of recommendation before October 30, 1994, to:

Dr. K. Ken Redda College of Pharmacy and Pharmaceutical Sciences Florida A&M University Tallahassee, FL 32307 Telephone: 904-599-3910

FAMU is an Equal Opportunity and Equal Access Institution. Women and minorities are encouraged to apply.

#### **POSITIONS OPEN**

#### LABORATORY DIRECTOR MOLECULAR MARINE BIOLOGY. ENVIRONMENTAL AND EVOLUTIONARY BIOLOGY

The Pacific Biomedical Research Center, University of Hawaii at Manoa, seeks a director for the Kewalo Marine Laboratory. Situated on the south shore of Oahu, the laboratory houses modern research facilities for the investigation of contemporary problems in environmental and evolutionary biology of marine organisms. The director will guide the redirection of the Kewalo program in molecular marine biology including such areas as: conservation biology, molecular ecology and evolution, symbiosis, recognition processes, environmental adapation, human impacts on marine ecosystems and reproductive biology. Successful candidates should have an active, funded research program that includes use of molecular tools to answer fundamental questions in marine biology. Send answer fundamental questions in marine biology. Send curriculum vitae, copies of recent reprints, and the names and addresses of three potential references to: Chair, Search Committee, Pacific Biomedical Research Cen-ter, University of Hawaii at Manoa, 1993 East-West Road, Honolulu, HI 96822. Applications will be accepted and considered until the position is filled; screen-ing will commence on November 1, 1994. The University of Hawaii at Manoa is an Equal Opportunity/Affirmative Action Institution

#### **BEN-GURION UNIVERSITY OF THE** NEGEV Beer-Sheva, Israel The Jacob Blaustein Institute for Desert Research

Ben-Gurion University of the Negev seeks to fill the position of **DIRECTOR** for the Jacob Blaustein Institute for Desert Research.

The Institute is engaged in basic and applied research in most aspects of desert sciences. Its goals are to advance the knowledge of desert environments and to promote sustainable development of national and global dry lands.

The Blaustein Institute is chartered as Israel's National Institute for Desert Research and includes the Blaustein International Center for Desert Studies. Its main campus is at Sede Boker with additional research facilities/activities in Beer-Sheva and throughout the Negev.

Applicants should have a solid background in academic research, experience in research management at the executive level and fluency in both English and Hebrew

Applications will be accepted until December 1, 1994. Starting date in 1995 is negotiable. Interested candidates should send their curric-

ulum vitae, selected reprints and list of references to:

Prof. Zvi Priel, Search Committee Chair Department of Chemistry Ben-Gurion University of the Negev P.O. Box 653 Beer-Sheva 84105 ISRAEL

#### DIRECTOR, NATIONAL MUSEUM OF NATURAL HISTORY SMITHSONIAN INSTITUTION

Applications are sought for the position of **DIREC-TOR**, National Museum of Natural History, Smithsonian Institution. Located in Washington, D.C., the National Museum maintains a wide range of vigorous programs in research, collections, exhibitions, and education. The Director, as the Chief Operating Officer, is responsible for a budget of \$45 million and approximately 700 staff. The Director reports to senior management of the Smithsonian and receives assistance from a nationally constituted advisory board. Candidates should demonstrate scientific leadership,

fundraising experience, ability to conceive and implement multi-disciplinary programs, be capable of forcefully rep-resenting the Museum to diverse constituencies, and have strong interpersonal skills.

Applicants should send a curriculum vitae to: Ross Simons, Secretary, Search Committee, Smithsonian Institution, 1000 Jefferson Drive, S.W., Room 120, Washington, DC 20560 or call at 202-357-2939 for further information.

The Smithsonian Institution is an Equal Opportunity Employer.

#### AMERICAN ASSOCIATION FOR CANCER RESEARCH (AACR)

#### SPECIAL OPPORTUNITIES FOR YOUNG INVESTIGATORS

The AACR is a professional society of over 10,000 scientists and physicians involved in cancer research. Special opportunities for young investigators include:

• Associate Membership conferring almost all of the benefits of regular membership at reduced rates

• Employment Register listing available positions and candidates in all subdisciplines of cancer research. Listings appear in several issues of *Cancer Research*, and interviews are arranged at the AACR Annual Meeting (Toronto, Ontario, Canada, March 19-22, 1995)

• Travel Grants to the Annual Meeting and AACR Special Conferences

• Mentorship Program and Special Travel Awards for NCI-designated minority scientists

American Association for Cancer Research Public Ledger Building, Suite 816 150 S. Independence Mall West Philadelphia, PA 19106-3483 Telephone: (215) 440-9300 • FAX: (215) 440-9313

# Ph. D. MOLECULAR BIOLOGIST

IBEX Technolo-

gies Inc. is a

biotechnology

company develop-

ing enzymatic-

based diagnostic

and therapeutic

products.

We have a position immediately available for a scientist who will develop bacterial, chaperone mediated, systems for high-level expression of recombinant enzymes. In addition, this person will collaborate on the engineering of recombinant enzymes for medical applications. The ability to work with others as part of a research team is essential.

IBEX Technologies is located in Montréal, Canada; a culturally diverse, cosmopolitan city of 3 million people. In addition, Montréal is convenient to numerous summer and winter outdoor activities. IBEX Technologies offers a compètitive compensation package and a stimulating scientific research environment. We encourage publication of results and are an equal opportunity employer.



Interested candidates please send résumé to: IBEX Technologies, Department 1040, 5485 Paré Street, Montréal, Québec, Canada H4P 1P7 FOOD AND DRUG ADMINISTRATION The Center for Biologics Evaluation and Research (CBER) and the Center for DRUG Evaluation and Research (CDER) are searching for outstanding physicians and scientists. CBER regulates blood, vaccines, biological therapeutics and related products according to statutory authorities in order to protect and enhance the public health. CDER promotes, protects, and enhances the health of the public through the drug development and evaluation process. Candidates should have special interest in mechanisms of action, benefits and risk of drugs; skill in critically analyzing; skill in writing; knowledge of biostatistics, clinical trial design and computers; and experience in research and/or teaching. These positions have a high degree of independence and involve complex medical, scientific, and regulatory issues. QUALIFICATIONS: US Citizenship required. Some positions will accept Staff Fellowship applications from Permanent Residents eligible for citizenship within four years. Physicians: All requirements for a Doctor of Medicine or Osteopathy Degree from an accredited institution must be completed. Graduates of Foreign medical schools must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. Board eligibility or certification in a primary specialty, or having completed at least four years of residency training or possess equivalent experience is desirable. Scientists: Doctoral level degrees in biology or physical sciences, pharmacology, toxicology, or related disciplines, along with advanced training and/or experience in the development, manufacture or testing of biologics is desirable. SALARY Range for GS-13 to GS-15: Physicians: \$59,099 to \$91,029 per annum. In addition, physicians may also be eligible for a physicians comparability allowance up to \$20,000 per annum. Scientists: \$35,045 to \$90,252 per annum. Salary, benefits, research support, and level of responsibility are commensurate with education and experience. Send an Application for Federal Employment. APPLY: (SF-171) and/or current detailed Curriculum Vitae along with bibliography, statement of regulatory/research interest, transcripts, and names of three references to:

CBER: FDA/Center for Biologics Evaluation and Research (12), 1401 Rockville Pike, Suite 200N, HFM-50, Rockville, MD 20852-1448. CDER: FDA/Center for Drug Evaluation and Research (184), 5600 Fishers Lane, Room 11B-22, HFD-505, Rockville, MD 20857.

FDA is an Equal opportunity employer and has a smoke free environment.



### Lectureship in the Radioisotope Unit

Applications are invited for the post of Lecturer in the Radioisotope Unit (Ref. 94/95-15). The appointment will be on a three-year fixed-term basis from 1 January 1995, with a possibility of renewal.

Applicants should possess expertise in the areas of Radiation Dosimetry and Earth Science/Geochronology. The appointee will be required to supervise research students, to teach relevant courses offered by the Unit and to participate in service functions and research activities.

Annual salary [non-superannuable but attracting 15% (taxable) terminal gratuity] is on an 11-point scale, with starting salary depending on qualifications and experience: HK\$412,980 - HK\$689,880 (approx. US\$53,634 - US\$89,595; US Dollar equivalents as at 24 August 1994). At current rates salaries tax will not exceed 15% of gross income. Children's education allowances, leave, and medical benefits are provided; housing or tenancy allowances are also provided in most cases at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2058; E-mail: APPTUNIT@HKUVM1.HKU.HK). Particulars are also available on the University's listserv accessed by E-mail as "listserv@hkuvm1.hku.hk" (specify "get apptment filelist" for list of vacant posts, and "help" for details of listserv commands). Closes **28 October 1994**.

ASSOCIATE CAMPUS DEAN FOR RESEARCH

Texas A&M University at Galveston, a coastal campus of the College of Geosciences and Maritime Studies of Texas A&M University, announces a position search for ASSOCIATE CAMPUS DEAN for Research and Graduate Program Coordinator. This Associate Campus Dean will have responsibility for enhancing the research stature of the Galveston Campus as well as fostering the continued development of graduate program activities on the campus. The individual in this position will be expected to serve as an advocate for both of these activities within the college and the broader University community. As an entrepreneurial leader, the successful candidate should be innovative and effective in facilitating research support for the campus including outreach toward industry. Candidates should have demonstrated research and scholarly activities with documented, long-term grant support and graduate training experience in the physical science aspects of ocean and coastal systems; administrative experience in grant acquisition; familiarity with government and nongovernment grant and industry research funding policies and priorities; and strong interpresonal, organizational and communication skills. The successful candidate must possess a Ph.D. degree and be academically qualified for appointment at the associate or full professorial rank in one of the departments on the Galveston Campus.

In appoint the decount of the processing of the departments on the Galveston Campus. Please forward the following: (1) letter describing administrative, graduate training, and research background; (2) curriculum vitae; and (3) names and addresses of five references to: Dr. David J. Schmidly, Chief Executive Officer and Campus Dean, Texas A&M University Galveston Campus, P.O. Box 1675, Galveston, TX 77553. This position will review of applications one month after publication of position announcement.

Texas A&M University Galveston Campus is an Affirmative Action/Equal Opportunity Employer.

The UNIVERSITY OF NEVADA, RENO seeks an established ecologist or conservation biologist as **PROFESSOR** of Biology and **DIRECTOR** of the Biodiversity Research Center. Duties include administration, research, and teaching. Expertise in desert or arid/montane ecosystems and hands-on conservation experience required; background in modeling; ecology of sensitive species, or GIS and remote sensing highly desirable. Ph.D., ten years of experience after the doctorate, and significant publication record necessary. Starting date January 1, 1995; salary \$56,485 to \$72,623 for academic year; summer salary available. Send letter of application, curriculum vitae, selected publications, and the names, addresses, and telephone numbers of three references to: Dr. Peter F. Brussard, Chair, Department of Biology/314 University of Nevada, Reno, NV 89557. University of Nevada, Reno employs only U.S. citizens and aliens lawfully authorized to work in the United States. *Affirmative Action/Equal Opportunity Employer*.

#### LABORATORY SUPERVISOR

GENETIC THERAPY, INC., a leading biotechnology company, is developing viral-mediated gene transfer methods applicable to human gene therapy. The Tissue Culture Quality Control Laboratory is seeking a scientist to manage a group responsible for quality control of clinical materials. Candidates should possess an M.S. or Ph.D. and have a strong background in mammalian cell culture, virology and assay development. Preference will be given to candidates familiar with GMP compliance. Genetic Therapy, Inc. offers a stimulating and challenging environment, with competitive salaries and benefits. Please send a résumé to: Genetic Therapy, Inc., Human Resources-BOC/LABSUP-10, 938 Clopper Road, Gaithersburg, MD 20878. Genetic Therapy, Inc. is an Equal Opportunity Employer.

#### POSTDOCTORAL POSITIONS IN PLANT BIOLOGY

Two POSITIONS are immediately available to investigate genes involved in Plant Development and Disease Resistance. These positions are part of a collaborative effort between Drs. Joe Chappell (PNAS, 88:11088-11092, 1992), Glenn B. Collins (In Vitro Cell Dev Bio, 28:153-160, 1992) and Mark T. Nielsen (J Chem Ecol, 18:1467-1479, 1992). Candidates should have demonstrated quantitative skills and be familiar with biochemical and molecular biology techniques. Please send curriculum vitae and three letters of reference to: Dr. Joe Chappell, Plant Physiology/Biochemistry Program, N-220 Agricultural Science Center-North, University of Kentucky, Lexington, KY 40546-0091.

#### **POSITIONS OPEN**

#### IMMUNOLOGY/DIABETES INSTITUTE RESEARCH DIRECTOR

Seeking **RESEARCH DIRECTOR** at Barbara Davis Center for Childhood Diabetes. Institute is devoted to understanding immunology of Type I Diabetes and curing the disorder with islet or engineered cellular transplantation.

Large Endowment/Excellent Facilities/University of Colorado Affiliation. Send curriculum vitae to: Dr. George Eisenbarth, Barbara Davis Center for Childhood Diabetes, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Box B140, Denver, CO 80262.

The University of Colorado Health Sciences Center is committed to Equal Opportunity and Affirmative Action.

#### MOUSE CORE FACILITY SUPERVISOR

The University of California San Diego Cancer Center is seeking an individual to supervise and participate in a mouse genetics core facility. The position requires skills in mouse husbandry and procedures with small animals. Experience in embryo and blastocyst injection and implantation is desirable. The core is located on the La Jolla campus in a barrier mouse facility nearing completion.

campus in a barrier mouse facility nearing completion. Compensation is negotiable and will be commensurate with education and experience. Please send a résumé or curriculum vitae and a bibliography, along with three references by October 7, 1994, to: UCSD Human Resources, 10280 North Torrey Pines Road, Suite 266, La Jolla, CA 92093-0967. Résumés must reference Job No. 106215-S. Affirmative Action/Equal Opportunity Employe.

#### FACULTY POSITIONS IN MOLECULAR AND CELLULAR PHYSIOLOGY University of North Carolina at Chapel Hill

The Department of Physiology at the University of North Carolina at Chapel Hill invites applications for two TENURE-TRACK FACULTY POSITIONS from candidates with a Ph.D., M.D. or the equivalent degree and a strong record of research productivity. Although rank will be commensurate with experience, appointment at the ASSISTANT PROFESSOR level is preferred. We seek individuals who will establish vigorous research programs investigating physiological processes at the molecular and cellular levels. Candidates studying the development of the nervous, cardiovascular, endocrine or gastrointestinal systems will be given special consideration, although outstanding applicants with other research interests will also be considered. The successful candidates swill participate in teaching programs for graduate students and students in the health professions. Send a complete curriculum vitae, a brief description of research interests and the names, addresses, and telephone numbers of three referees to: Faculty Search Committee, Department of Physiology, University of North Carolina, Chapel Hill, NC 27599-7545. University of North Carolina-Chapel Hill is an Affirmative Action/Equal Opportunity Employer. Minorities and women are especially encouraged to apply.

#### CASE WESTERN RESERVE UNIVERSITY FACULTY POSITION

The Department of Molecular Biology and Microbiology at Case Western Reserve University School of Medicine invites applications for a junior or intermediate level, **TENURE-TRACK POSITION** from individuals interested in the molecular aspects of cancer biology. More specifically, we encourage applications from individuals with research interests pertaining to cancer biology in the areas of signal transduction, cell cycle regulation, apoptosis, and tumor suppressor genes/oncogenes. The Department offers close faculty interactions, integration with the NCI-designated Cancer Center, and an expanding graduate student population, all of which contribute to an excellent 'research environment. Collaborations within the University and among the medical school faculty are extensive. Competitive start-up funds will be available to the successful applicant. Applications will be reviewed starting immediately and will continue until suitable candidates are identified. Candidates should submit a curriculum vitae, a statement of research interests and the names of three references to:

#### Dr. Fritz Rottman, Chairman Department of Molecular Biology and Microbiology Case Western Reserve University School of Medicine 10900 Euclid Avenue

Cleveland, OH 44106-4960

Case Western Reserve University is an Affirmative Action/ Equal Opportunity Employer.

#### **POSITIONS OPEN**

FACULTY POSITION IN CARDIOVASCULAR PATHOPHYSIOLOGY. The Department of Anesthesiology at the University of Michigan Medical Center has a beginning level tenure-track position available in the area of cardiovascular physiology or cardiovascular pathology. A Ph.D. and/or M.D. degree is required with training in an appropriate scientific discipline. Experience in the integration of physiological, tissue culture systems, biochemical and cardiovascular pharmacological principles with analytical methodologies such as HPLC, GC, fluorescent probes and electrophysiology are required. Experience with ischemia-reperfusion models, free radical injury, intra- and intercellular communication and biological effects of anesthetic agents will be given preference. Candidate must have a minimum of three years of postdoctoral experience and will be expected to conduct a research program which will lead to extramural funding in these areas and teach within the department. Submit curriculum vitae and three reference letters with a brief statement of research plans to: Dr. B.N. La Du, M.D., Ph.D., Director of Research, Department of Anesthesiology, University of Michigan Medical Center, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0572. Applications will be accepted through November 15, 1994. The University of Michigan is an Equal Opportunity/Affirmative Action Employer. Minority and women candidates are encouraged.

The Division of Biology, California Institute of Technology, seeks a JUNIOR FACULTY MEMBER in the area of Immunology for a tenure-track position. Success-ful applicants are expected to generate creative and productive research programs that will interface with the diverse scientific interests represented in the Biology Division. Applicants should send 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 directly to the search committee to coincide with receipt of the application. Letters of reference and applications should be sent to: Ms. Joyce Kato, Immunology Search Committee, Division of Biology 147-75, California Institute of Technology, Pasadena, CA 91125. The deadline for Technology, Pasadena, Institute of Technology is an Equal Opportunity/Affimative Action Employer and encourages the applications of qualified women and minorities, veterans and disabled nervous.

#### NATURAL RESOURCE AND ENVIRONMENTAL ECONOMICS

The School of Natural Resources and Environment, The University of Michigan, invites applications for two nine-month **TENURE** or **TENURE-TRACK POSI-TIONS** in the area of natural resources and environmental economics, to be filled by September 1, 1995. A doctorate in resource economics, economics, public policy, or a related field, with a demonstrated research interest and ability in resource and environmental economics is required. Interest in international, transboundary or sustainability issues, risk, ecosystem management or water resources would be considered an asset.

For further information, contact: Judy Francis, School of Natural Resources and Environment, 3512 Dana Building, The University of Michigan, Ann Arbor, MI 48109-1115. Telephone: 313-764-2550. Closing date for initial review is October 15, 1994. Applications accepted until positions are filled. The University of Michigan is an Non-Discriminatory, Affirmative Action Employer.

#### ELECTRON MICROSCOPY FACILITY SUPERVISOR/INSTRUCTOR

Miami University is seeking applicants for a full-time, non-tenure-track, **STAFF POSITION** of Electron Microscopy Facility Supervisor to begin as soon as possible. The successful applicant will hold an M.S. or Ph.D. degree in one of the biological sciences and will be responsible for the operation, maintenance, and supervision of an interdepartmental EM facility containing two TEMs, two SEMs, cryopreservation equipment, EDX spectrometer, five darkrooms, and an image analyzer. Duties include supervision of a full-time EM technician and teaching in microscopy courses. Collaboration on faculty research projects will be encouraged.

Please submit curriculum vitae, transcripts of all course work, and three letters of recommendation to: David Pennock, Director, Electron Microscopy Facility, Miami University, Oxford, OH 45056. Application review will continue until the position is filled. *Miami Uni*versity is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL FELLOWSHIPS at the WOODS HOLE OCEANOGRAPHIC INSTITUTION

Applied Ocean Physics & Engineering Biology, Marine Chemistry & Geochemistry Marine Geology & Geophysics Physical Oceanography

lovo

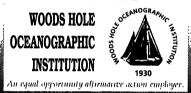
Biotech

Inc.

lordisk

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Fellowships are awarded for 12-18 month appointments with a stipend of \$36,000 per year, plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by January 15, 1995 for the 1995-96 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. Or call (508) 457-2000, ext 2200 or Email bederemer@whol.edu.



# Senior Scientist Drug Discovery

T CELL SCIENCES has established a strong proprietary position in T cell and complement receptor technology which we are utilizing to develop pharmaccutical products for the treatment of diseases of inflammation and autoimmunity. T CELL DIAGNOSTICS, our subsidiary, manufactures and markets innovative diagnostic and research products around the world.

### Molecular/Cellular Biology

Growth opportunity for individual to participate with a team in exploratory programs leading to new drug discovery. A demonstrated capability for project planning and coordination, and a clear record of scientific excellence and creativity is expected. Requires Ph.D. with minimum 2 years of postdoctoral or industrial experience. Candidates with combined training in biochemistry, immunology, cell biology or molecular biology are encouraged to apply.

T CELL SCIENCES, INC. offers competitive compensation, comprehensive benefits, and a progressive work environment. For immediate, confidential consideration please forward resume to Human Resources, T CELL SCIENCES, INC., 38 Sidney Street, Cambridge, MA 02139.

Equal Opportunity Employer M/F/D/V



**N**ovo Nordisk Biotech, Inc. is a wholly owned R & D subsidiary of Novo Nordisk A/S, a major international Danish industrial biotechnology and pharmaceutical company. Novo Nordisk Biotech, Inc., located in Davis, CA, is focused on the cloning, expression, mutagenesis and characterization of industrial enzymes. The Company has the following positions open:

# Microbiology/Microbial Physiology Research Manager

Ph.D. in microbiology, genetics, chemical engineering or related discipline with over eight years' research experience. Work will involve fungal strain development including classical mutagenesis, molecular genetics, transformation methods and screening of transformants OR studies of metabolism, regulation of expression, substrate optimization and lab scale fermentation methods, depending on the background of the applicant.

The Research Manager position will be responsible for directing the company's R & D strategies and efforts in its microbiology AND microbial physiology departments. The position requires an individual who is a benchwork scientist as well as a good manager. A proven record of innovative research as demonstrated by publications in peer reviewed journals is essential.

# Postdoctoral Position: Molecular Biology/Biochemistry

To study fundamental metabolic pathways in filamentous fungi using Molecular Biology and/or Biochemistry.

If you are interested in a challenging research position with the world's leading producer of industrial enzymes and meet the above criteria, please send your C.V. with a list of three references for consideration, in confidence, to: Novo Nordisk Biotech, Inc., Department of Human Resources, 1445 Drew Avenue, Davis, CA 95616. Please indicate the position for which you are applying. We are an Equal Opportunity Employer.

#### BROOKHAVEN NATIONAL LABORATORY

# **CHEMICAL CATALYSIS POSITION**

The Brookhaven National Laboratory Chemistry Department has a staff opening for a Ph.D. Chemist with a strong basic research background in catalysis with an emphasis on reactivity studies. Applicants from all areas of chemical catalysis and all experience levels, including well established investigators, will receive serious consideration.

The appointment will be within the Department's Structure and Reactivity in Catalysis group. This group presently includes seven PI's working in the areas of organometallic chemistry/homogeneous catalysis (structure and reactivity of metal hydrides, transition-metal carbohydrate chemistry) and surface science/heterogeneous catalysis (bimetallic systems, the effects of promoters and poisons, zeolite structures).

A wide variety of equipment (including NMR, GC-MS, GC's, IR's, x-ray diffractometers, UHV chambers and instrumentation, and computing resources) is available in the Chemistry Department's modern building. In addition, staff members have ready access to major BNL facilities, including the National Synchrotron Light Source (for studies such as x-ray diffraction and absorption, UV photoemission) and the High Flux Beam Reactor (for neutron diffraction and scattering).

More detailed information concerning the BNL Structure and Reactivity in Catalysis program is available upon request (E-mail address; catalyst@dynamics.chm.bnl.gov). Interested individuals should send their vita together with a one-page statement of research plans and arrange for three letters of reference to be sent to: Catalysis Search Committee, Chemistry Department, Building 555, Brookhaven National Laboratory, PO. Box 5000, Upton, NY 11973-5000.

Selection of candidates for interviews is expected to begin November 1, 1994.

Equal Opportunity Employer M/F/D/V.



at the center of science, beside the sea

# FACULTY POSITION RENAL PHYSIOLOGY

Applications are invited for tenure-track positions at the ASSISTANT and ASSOCIATE PROFESSOR level. We seek faculty who will have primary appointment in the Department of Physiology as well as those with a potential for joint appointment in a clinical department. Successful candidates should have evidence of research productivity, teaching in Renal Physiology, and a Ph.D. or M.D./Ph.D. degree. Applicants with research interests in biochemical and molecular mechanism of acidification and/or its control, intracellular Ca<sup>++</sup> transport, hyper-tension, membrane transport preferred. Send curriculum vitae, statement of research interests, two or three relevant reprints, and names of three references to: D. E. Wesson, M.D., Chief of the Combined Program in Nephrology and Renal Physiology, Texas Tech University Health Science Center, 3601 4th Street, Lubbock, TX 79430.

An Equal Opportunity/Affirmative Action Employer.

#### CHEMISTRY FACULTY POSITIONS

The School of Chemistry and Biochemistry of the Georgia Institute of Technology seeks to fill tenure-track FACULTY POSITIONS in the following areas: (1) theoretical and/or computational chemistry; (2) nuclear magnetic resonance of biopolymers; and (3) organic polymeric materials. Preference is given to applications at the junior level, but applications from outstanding individuals with established research programs will be considered. The proposed areas will strengthen existing thrusts in materials science, structural and mechanistic biochemistry, and bioorganic chemistry.

Georgia Tech is committed to diversity in its faculty and students and encourages applications from women and minority candidates. Candidates should send curriculum vitae, a statement of research plans, and should submit graduate transcripts and three letters of reference. All materials and requests for information should be directed to: Chairman, Faculty Search Committee, School of Chemistry and Biochemistry, Georgia In-stitute of Technology, Atlanta, GA 30332-0400. We will begin evaluating applications September 15, 1994. However, new applications will be considered until the positions are filled positions are filled.

Georgia Tech is an Equal Education/Employment Opportunity Institution.

Department of Obstetrics/Gynecology seeks IN-STRUCTOR to teach reproductive medicine to medical students, residents and graduate students, conduct re-search in reproductive medicine, infertility and animal models for reproductive surgery. M.D. or Ph.D. required with two years of residency or scientific research training and one year of experience, as well as publications in reproductive medicine. Salary \$37,000 per year. Please send curriculum vitae to:

Ms. Kathy Malo Job Service Programs and Technical Support Tennessee Department of Employment Security Nashville, TN 37245-1200 Job No. TN 1477089

POSTDOCTORAL FELLOW/RESEARCH AS-SOCIATE required immediately to characterize mosqui-to antigens and/or IgE subforms. Experience in protein purification with molecular biology background or production of hybridomas preferred. Send curriculum vitae and names or letters of three references to: **Dr. Zhikang** Peng, Department of Pediatrics, University of Mani-toba, MS739C-820 Sherbrook Street, Winnipeg, MB R3E 1R9 Canada. FAX: 204-787-4547.

#### POSTDOCTORAL POSITIONS IN BIOTECHNOLOGY

The Center for Advanced Biotechnology at Boston University has several openings for **POSTDOCTOR**-ALS. Research areas include new DNA sequencing methods, new DNA amplification methods, human disease gene discovery, ultrasensitive detection methods, parallel methods of genome mapping and monitoring gene ex-pression; and protein engineering for enhanced nuclear imaging, macromolecular fractionation and DNA diagnostics. Candidates should send a curriculum vitae and references to: Dr. Charles R. Cantor (crc@enga.bu, edu) or Dr. Cassandra L. Smith (clsmith@darwin.bu. edu), Center for Advanced Biotechnology, Boston University, Boston, MA 02215. FAX: 617-353-8501.

#### **POSITIONS OPEN**

#### MOLECULAR CELLULAR NEUROBIOLOGISTS MONTREAL NEUROLOGICAL INSTITUTE McGILL UNIVERSITY

The Montreal Neurological Institute (MNI) is seeking to recruit up to 10 Ph.D. or M.D. scientists interested in the cellular and molecular biology of the nervous system. Openings at all faculty levels are available in the MNI's Centre for Neuronal Survival, which studies neurogenesis, neuronal growth, and neurotrophic factors; in a group interested in epilepsy, which studies the cell biology of excitable tissues; in the development of gene therapy relevant to treating diseases of the nervous system, with emphasis on vector development; and in normal and abnormal cell growth in the nervous system. Oncogenes, transcriptional regulation, and cell cycle control are areas of interest. Investigators will hold academic appointments within the Faculty of Medicine at McGill, will be housed in newly renovated laboratories, and will be provided with ample set-up funds. The academic environment and collaborative potential for neuroscience at the MNI, at McGill and in Montreal are excellent. Montreal is a cosmopolitan, bilingual city known for its high quality of life. Applications should be sent to:

Dr. Richard A. Murphy Director, Montreal Neurological Institute 3801 University Street Montreal, Quebec

# Canada H3A 2B4

The deadline for receipt of applications is December 31, 1994. McGill University is committed to Equity in Employment.

# BIOMEDICAL RESEARCH IN CELL AND NEUROBIOLOGY

FACULTY POSITIONS are available at the junior or senior level in cell biology, including the cell biology of neurons. Areas of interest are cell growth control, signal transduction mechanisms, synaptic function and neurodegenerative disease, but other areas which fortify and complement existing research strengths in cell and neurobiology will also be considered. Direct relevance to problems of medical interest, and the use of molecular, genetic, and transgenic approaches are de-sirable. Appointments carry institute-backed salary guarantees and liberal start-up packages for personnel, equipment and operating costs. Submit a detailed curriculum vitae, a brief summary of re-

search interests and future research plans, and three letters of recommendation to:

Dr. Richard Vallee, Scientific Director c/o Human Resources The Worcester Foundation for Experimental Biology 222 Maple Avenue Shrewsbury, MA 01545 Review of applications will begin November 1, 1994. An Affirmative Action/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 con-tact John A. Wagner, the director of the graduate ract John A. Wagner, the director of the graduate program and the training grant, or any of the partici-pating 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, Cong Joh, Pater Macl eik, Targos Milagr. Cauril Tong Joh, Peter MacLeish, Teresa Milner, Gavril Pasternak, Virginia Pickel, Fred Plum, Jerome Pos-ner, and Donald Reis. Cornell University Graduate School of Medical Science, 1300 York Avenue, New York, NY 10021. Cornell University Medical College is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the role of a myeloid specific zinc finger gene, rearranged in acute leukemia, in normal hematopoiesis and in neoplasia. Molecular biology experience is required; experience in transcriptional regulation or em-bryonic stem cell technology is highly desirable. Please send or FAX curriculum vitae and names, addresses and telephone numbers of three references to: Dr. Jonathan Licht, Brookdale Center for Molecular Biology, Box 1126, Mount Sinai School of Medicine, New York, NY 10029. FAX: 212-860-9279. An Equal Opportunity Employer.

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# **POSITIONS OPEN**

#### POSTDOCTORAL POSITION

Postdoctoral Position. Available immediately. Interest and experience in studying the role of major histocom-patibility complex molecules in antigen presentation, us-ing molecular, cellular or whole animal approaches. Conand Immunology, University of North Carolina, CB No. 7290 FLOB, Chapel Hill, NC 27599-7290.

POSTDOCTORAL POSITION in laboratory studying organization and polymorphism of the human VH locus, mechanisms of biased VH gene utilization, and VH gene utilization in autoimmunity. Strong back-ground in molecular biology required. Send curriculum vitae and three references to: **Dr. Eric Milner, Immu**nology Program, Virginia Mason Research Center, 1000 Seneca Street, Seattle, WA 98101. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study cell-surface proteinases as regulators of growth factor activity in tumor invasion. Experience in cell and molecular biology is important. Interested candidates should forward a curriculum vitae and a list of ref-erences to: Dr. Steven L. Gonias, Departments of Pa-thology and Biochemistry, University of Virginia Health Sciences Center, Box 214, Charlottesville, VA **22908.** The University of Virginia is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study genetic aberrations in bladder cancer. Our lab has developed techniques of FISH and comparative genomic hybridization for characterization of genomic aberrations in cancer. Ph.D. and experience in molecular biology, *in situ* hybridization, or cytogenetics are desirable. Send curriculum vitae, statement of research interests, and names and telephone numbers of three referenc-es to: Dr. Fred Waldman, Division of Molecular Cytometry, Box 0808, University of California San Francisco, San Francisco, CA 94143.

POSTDOCTORAL POSITION available immediately in a collaborative project in the laboratories of **R.R. Freed-**man (Psychiatry), **J.L. Ram** (Physiology), and **J.R. Sowers** (Endocrinology and Hypertension) to study cellular and hormonal mechanisms mediating gender differences in cardiovascular function. Research utilizes isolated vascular preparations, cell culture, patch clamping, and mRNA measurements. Candidates experienced in several of these techniques are encouraged to apply. Send curriculum vitae and names of three references to Dr. R.R. Freedman, Depart-ment of Psychiatry, Wayne State University, 275 East Hancock, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS: Molecular and Cell Biology. Two outstanding Ph.D. scientists are invit-ed to study regulation of cell differentiation by growth factors, or to synthesize a chimeric growth factor promot-ing wound healing. Strong research experience in molec-ular biology and/or cell biology is essential. Send curriculum vitae with brief summary of research experience, copies of select publications and names of three references Dr. Moon-Il Cho, State University of New York at Buffalo, Department of Oral Biology, 3435 Main Street, B-10 Foster Hall, Buffalo, NY 14214. We are an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available to study nutritional influences on beta-adrenergic receptor expression in cultured adipocytes. Experience in molecular biology is required and in cell culture is desired. Send résumé and names of three references to: Harry J. Mers-mann, USDA/ARS Children's Nutrition Research Center, Department of Pediatrics, Baylor College of Medicine, 110 Bates Street, Houston, TX 77030. Baylor College of Medicine is an Affirmative Action/Equal Opportu-nity/Equal Access Employer.

POSTDOCTORAL POSITION, available immediately, to participate in molecular biologic studies of breast cancer. The focus of our laboratory is the role of TGF-beta (Mol. Cell. Biol., 14:619-628, 1994; Cancer Res., 52:6949-6952, 1992). Experience in molecular biology is required. Send curriculum vitae and names/ telephone numbers of two or three references to: **Bra**dley Arrick, M.D., Ph.D., Dartmouth Medical School, Kellogg Box 0128, Hanover, NH 03755. Email: Bradley.A.Arrick@mac.dartmouth.edu.



A leader in the development of implantable, cellcontaining devices designed to deliver therapeutic substances to treat central nervous system disorders such as chronic pain, Parkinson's and Alzheimer's diseases. We are the first to complete a human clinical trial of a device containing nonhuman cells without the use of immunosuppression - a major scientific breakthrough. Join us as we develop our unique technology to improve the treatment for these serious disorders.

# DELIVERING The promise of Cell Therapy

#### **CELL BIOLOGIST - RESEARCH**

Investigate the biology of EGF-responsive neural stem/progenitor cells and apply cellular and molecular neuroscience techniques to develop and/or modify novel cells for transplantation in the central nervous system. You should be proficient in the establishment and maintenance of primary mammalian cell cultures and *in vitro* bioassays for various neurotrophic factors. Qualifications include Ph.D. in Cell/Molecular Neurobiology, Biochemistry or a related field with at least 2-4 years of postdoctoral experience in a Cell/Molecular Neuroscience laboratory. Must be capable of working independently and possess excellent written and oral communication skills.

#### Cell Biologist - Process Development

Responsible for cell culture process development for genetically engineered and neurosecretory cell lines to be encapsulated for cell therapy applications. Research will focus on cell culture media development, process optimization, scale up, and optimization of therapeutic substances output. Ph.D. or equivalent with 3+ years of experience in cell culture process development in a biopharmaceutical or cell/gene therapy industrial environment. Knowledge of cGMP practices desirable.

#### **NEURO IMMUNOLOGIST - INTERFACE BIOLOGY**

Explore the immune system and local tissue environment as they interact with our encapsulation technology. Research focus is on the area of reaction to transplanted cells inside an immunoisolatory barrier and requires novel insights into tissue reactions, cytokine/antibody production and transplantation. Qualifications include a Ph.D. in Immunology and 5-8 years' postdoctoral experience, with a balance of industrial and academic experience, a background in modern molecular and cytokine immunology or xeno and allogenic transplantation, and some exposure to implant reaction or immunohistopathology.

#### **Research Associate - Pharmacology (bs/ms)**

Involved in cell culture experiments and neurochemical assays including neurotransmitter uptake, synthesis, and release. Responsible for growth factor receptor binding assays, radioimmunoassays, immunocytochemistry, *in situ* hybridization, Northern, Western and Southern blot analysis. Qualified candidates will have a BS/MS degree in Biology, Pharmacology, or a related field with 1-4 years' directly applicable experience. Experience with neuroanatomy and surgical dissection would be preferable, but not essential.

#### **DEVELOPMENT DIRECTOR**

Responsible for developing clinical/commercial processes for the production of implantable cell therapy products identified in Research. The Development group must demonstrate reproducibility and stability of these products and processes.

The Director will manage a group of approximately 20-30 scientists and technicians and have budget responsibilities. Requires a Ph.D. in Biomedical Engineering, Chemical Engineering or a related field with 8-10 years of experience in the medical devices industry or field. Familiarity with biologics critical. Experience in cGMP operation desirable.

We offer a competitive compensation package and a unique opportunity to build your career in an environment of unparalleled scientific excellence. Send your resume, salary requirements and references in confidence to:



# HUMAN HEALTH & ECOLOGICAL RISK ASSESSORS Staff and Senior Levels

hemRisk, a division of McLaren/Hart, specializes in conducting human and ecological risk assessments, environmental fate and transport modeling, exposure assessments, toxic tori litigation support, environmental and occupational toxicology, and air quality assessments.

Continued demand for our services has created significant opportunities in ecological and human health risk assessments. Responsibilities may include project/staff management, client interaction, report/scientific journal writing, conference presentations, literature search/review, computer modeling, and regulatory agency consultation/negotiation.

Successful candidates will have a minimum of three years experience in risk assessment or related areas and MS or Ph.D. in Environmental Toxicology, Ecotoxicology, Fisheries, Wildlife Science, Environmental Chemistry, and/or Health Science. We are currently staffing various levels to address projects in Alameda and Irvine, CA, Lake Charles, LA, Portland, ME, Warren, NJ and Cleveland, OH.

Please expedite your resume to: **HR Manager**, **Dept. SCI, ChemRisk, Division of McLaren/Hart**, **16755 Von Karman, Irvine, CA 92714.** EOE, M/F/D/V.



# IMMUNOLOGY & TOXICOLOGY Research Leadership

Now in its 65th year, **Battelle** is an international research leader. Our **Health Division** is seeking innovative, experienced scientists for **two** project leadership opportunities:

Immunochemist/Biochemist: Requires Ph.D in immunochemistry, biochemistry, immunology, or other relevant field; 5+ years' selecting, developing, and validating immunochemical or biochemical methods for human and environmental sample analysis for pesticides, therapeutics, or other compounds; and knowledge of GLP requirements. Excellent communication skills and project management experience essential. Industrial experience desired. Eligibility for security clearances required.

General Toxicologist: Requires Ph.D in toxicology, pharmacology, pathology, or other relevant field; 5+ years' directing drug safety studies; knowledge of GLP requirements; and strong interpersonal, communication, and organizational skills. DABT certification, pharmaceutical industry experience, and supervisory and training experience desired. Additional positions are available for recent Ph.D graduates or postdoctoral toxicologists.

These positions are located at Battelle's **Columbus, Ohio** research center and world headquarters. Columbus is at the heart of a dynamic, growing, and economically balanced region noted for diverse, convenient, and affordable housing, quality schools, excellent recreational opportunities, and a vibrant arts community.

Battelle offers a comprehensive package of compensation and benefits. Send resume/CV and cover letter to: Christopher Dunford, Dept. 100, Battelle, 505 King Avenue, Columbus, OH 43201-2693. Battelle is an Affirmative Action/Equal Opportunity Employer M/F/D/V.



#### RESEARCH ASSOCIATES RESEARCH INSTRUCTOR POSITIONS

Opportunities for **POSTDOCTORAL RESEARCH** training and experience in Department of Microbiology and Immunology. Immediately available project areas in clude: Molecular genetics of metabolic regulation in *Pseudomonas* (**Dr. Paul V. Phibbs**); and regulation of glucose transporter isoforms in fibroblast cultures (**Dr. Martyn K. White**). Additional areas may include: genetics of herpesvirus capsid maturation; and regulation of immunological tolerance. Salaries with fringes are nationally competitive. Applicants should have a Ph.D. degree with training and experience in relevant areas of microbiology, molecular genetics, and immunology.

Send cover letter, complete curriculum vitae, publication reprints, and the names, addresses, and telephone numbers of three references to: Postdoctoral Screening Committee, Department of Microbiology and Immunology, School of Medicine, East Carolina University, Greenville, NC 27858-4354.

East Carolina University is an Equal Opportunity/Affirmative Action University. Accommodates individuals with disabilities. Applicants must comply with the Immigration Reform and Control Act.

#### UNIVERSITY OF PENNSYLVANIA MEDICAL CENTER

**POSTDOCTORAL POSITIONS** available in a new training program 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 laboratory experience with the opportunity to develop an independent research program. Applicants re-quire Ph.D. or M.D. degree and U.S. permanent residen-cy. Participating laboratories are: **P. Ballard**, Lung development; hormonal regulation of surfactant protein genes; M. Beers, Metabolism of hydrophobic surfactant proteins; lipid modification of proteins; S. Feinstein, Transcription factors and regulation of surfactant protein gene expression; A. Fisher, Endocytosis and metabolism of phospholipid; mechanisms of oxidant injury; 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 pathways 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, Institute for Environmental Medicine, One John Morgan Building/6068, 3620 Hamilton Walk, Philadelphia, PA 19104. Qualified women and minority candidates are espe-cially encouraged to apply. An Affirmative Action/Equal Opportunity Employer.

#### POSTDOCTORAL RESEARCH ASSOCIATE

The Ecosystems Center of the Marine Biological Laboratory anticipates funding for a **POSTDOCTORAL RESEARCH ASSOCIATE** to join in a project involving sampling and modeling of the nitrogen cycle in riverine estuaries. Successful applicant will work closely with hydrologists, biologists and biogeochemists to test models of estuarine nitrogen dynamics. Must have a Ph.D. in aquatic ecology with strong background in calculus, modeling and biogeochemical cycles, and ability to work well in collaborative research. Appointment will be made in October 1994, or soon thereafter, for one year with possible renewal for up to two additional years. Submit résumé and names of three references to the **Human Resources Office, MBL, Woods Hole, MA 02543; Internet: resume@mbl.edu.** *Equal Opportunity/Affirmative Attini/Non-smoking workplace*.

#### POSTDOCTORAL POSITION Nitric Oxide

Available immediately to study the chemical and biochemical principles that determine the interactions of enzymatically generated NO with cellular targets. Experience in chemistry and/or biochemistry, spectroscopy, reactive oxygen species, electron transfer, metals and metalloproteins desirable. Send curriculum vitae and list of references to: Dr. J.R. Lancaster, Jr., Department of Physiology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. Louisiana State University Medical Center is an Equal Employment Opportunity/Affirmative Action Employer.

#### **POSITIONS OPEN**

#### MOLECULAR AND CELL BIOLOGISTS INTERESTED IN TOXICOLOGY

are invited to apply to the Environmental Chemistry and Toxicology Laboratory at the University of California at Berkeley for SPECIALIST and POSTGRADUATE **RESEARCH SCIENTIST** positions in the non-tenure series to investigate the mechanism of action of pesticides, xenobiotics and related biologically active compounds. The laboratory staff normally includes 16 to 20 grantfunded scientists appointed for periods of one to four years. The specifications for each position depend on the programmatic needs and the duration of the appointment on performance. The laboratory is currently soliciting applications in a relatively wide range of areas from which specific qualified candidates will be selected. Applicants must hold a Ph.D. or equivalent degree with emphasis on one or more of toxicology, pharmacology, molecular bi-ology, cell biology, protein isolation/sequencing, radio-ligand binding studies and photoaffinity probes to investigate mechanisms of mammalian toxicity. Each appointment is made at a level commensurate with academic qualifications and experience. Send curriculum vitae, publication list, and names of three professional references to: Dr. John E. Casida, Department of Environ-mental Science, Policy and Management, 114 Wellman Hall, University of California, Berkeley, CA 94720-3112. Telephone: 510-642-5424. FAX: 510-642-6497. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available immediately to study repair of UV damage to DNA in germinating spores of *Bacillus subtilis* mediated by the novel enzyme spore photoproduct lyase (see *J. Bact.*, 175:1735–1744, 1993; *J. Bact.*, 176:3983–3991, 1994). Applicants must have a Ph.D. in microbiology, biochemistry, or related field. Experience in molecular biology, protein purification, and immunologic techniques in bacterial systems is desirable. Please send curriculum vitae with the names, addresses, and telephone numbers of three references to: **Department of Human Resource Services**, University **of North Texas Health Science Center at Fort Worth, TX 76107-2699.** The University of North Texas Health Science Center-Fort Worth is an Equal Opportunity/Affirmative Action Employee and Educator.

**POSTDOCTORAL POSITION** available immediately to study the mechanism of drug metabolism by cytochrome P-450 in an established multidisciplinary laboratory. Ph.D. in Chemistry or Biochemistry essential. A strong background in enzyme kinetics, enzymology and methods of physical chemistry is required. Send résumé and three references to: Dr. L. Waskell, M.D., Ph.D., Department of Anesthesia, UC San Francisco, VA Medical Center, San Francisco, CA 94121. FAX: 415-750-6946. Equal Opportunity Employer.

#### HARVARD MEDICAL SCHOOL POSTDOCTORAL POSITIONS

Three funded postdoctoral positions are available immediately to study the molecular mechanisms by which proteins and organelles are targeted and degraded in yeast lysosomes (*Nature*, **350**:313–318). Future research will focus on (1) Characterization of the mutants defective in the pathway. Cloning and sequencing of the genes responsible for the mutant phenotypes. Functional analysis of the gene products. (2) Reconstitution of an *in vitro* system to study factors and proteins involved in the targeting pathway. (3) Identification of a candidate receptor protein that mediates the import process. Send curriculum vitae and three names of references to: **Dr. H. Chiang, Department of Cell Biology, 25 Shattuck Street, Boston, MA 02115**.

#### POSTDOCTORAL POSITION

Mass-spectrometrist (Ph.D. in Physics or Electronic Engineering). To set up an atmospheric pressure chemical ionisation mass-spectrometer for direct atmospheric analysis. Couple it to meteorological sensors and establish fluxes of greenhouse gases during field experiments. Project duration, two years. Deadline for receipt of applications is 15 October 1994. Applications should be sent to: Dr. S. Rapsomanikis or Ms. A. Lahouse, Max Planck Institute for Chemistry, Biogeochemistry Department, P.O. Box 3060, 55020 Mainz, Germany. Email: rapso@mpch-mainz.mpg.d400.de.

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#### **POSITIONS OPEN**

**INDUSTRIAL POSTDOCTORAL POSITION** in Yeast Genetics (Temporary full-time position opens beginning in January 1995 for approximately two to three years). Requires extensive experience with *Candida sp*, including the cloning, characterization, and overexpression of genes. Position offers unique opportunity to gain experience on a multi-team industrial research project culminating in a commercial process. Located in northern California, COGNIS is part of the \$9 billion international Henkel group. To apply please send current résumé and list of references to: **Personnel Director**, **COGNIS**, **Inc., 2330 Circadian Way, Santa Rosa, CA 95407**.

POSTDOCTORAL RESEARCH ASSOCIATE to study the regulation of expression and functions of the  $\alpha 7\beta 1$  integrin during the development of the skeletal myogenic lineage and in adult muscle. This integrin functions in cell migration, cell proliferation and cell-cell interactions during myogenic development. In the adult  $\alpha 7\beta 1$  integrates fibers with the extracellular lamina and it is a major part of myotendinous junctions. Alternate cytoplasmic and extracellular domains, multiple ligand binding, and ADP-ribosylation underlie its functional diversity. Studies will focus on the molecular mechanisms that underlie the diverse structure and functions of the  $\alpha$ 7 chain. A limited amount of teaching will include delivery of immunology laboratories to first-year medical students. Experience in molecular biology and immunology January 1, 1995, or thereafter. Send résumé and names of three references to: Stephen J. Kaufman, Ph.D., University of Illinois, Department of Cell and Structural Biology, 506 Morrill Hall, 505 South Goodwin, Urbana, IL 61801. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

#### POSTDOCTORAL RESEARCH FELLOW

POSTDOCTORAL RESEARCH and TRAINING **POSITIONS** are available in the laboratories of the Atlantic Research Centre (associated with the Departments of Pediatrics and Biochemistry, Dalhousie University, and the Izaak Walton Killam Hospital for Children), Halifax, Nova Scotia, Canada. The laboratories are part of the NeuroScience Network. Laboratory-based research at the Centre is focused on two general, interrelated areas: 1) signal transduction mechanisms, lipid second-messengers and protein kinase C in neural cell models; and 2) biochemical and genetic studies of membrane lipid and pro-tein metabolism using normal, mutant (e.g., Niemann-Pick disease and peroxisomal disorders) and transformed cell lines in culture. Experience with molecular biology, protein characterization, immunochemistry and lipid techniques is an asset. Candidates should have a doctoral degree in biochemistry, chemistry or biology and relevant research experience at the postgraduate level. Salary will be commensurate with the Medical Research Council of Canada salary scales for postdoctoral fellows (\$23,000 to \$28,000). Reply with a curriculum vitae and names, addresses, and telephone numbers of three referees to: Dr. Harold W. Cook, Director, Atlantic Research Centre, Dalhousie University, 5849 University Avenue, Hali-fax, Nova Scotia, B3H 4H7, Canada. Telephone: 902-494-7066; FAX: 902-494-1394.

**POSTDOCTORAL POSITION**. Long-Term Potentiation. Available immediately. Analysis of second messengers and kinases activated by adrenergic and metabotropic glutamate receptors in synaptic plasticity. Intracellular or patch clamp recording experience desirable. Successful candidate will be conducting research in the laboratory of **Dr. John Sarvey** at the Uniformed Services University of the Health Sciences, in Bethesda, Maryland and will be employed by the Henry M. Jackson Foundation. Send curriculum vitae and three references (name, address, telephone) to: Human Resources, Position No. 940000278, The Henry M. Jackson Foundation for the Advancement of Military Medicine, 1401 Rockville Pike, Suite 600, Rockville, MD 20852. Affimative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available for an individual interested in working on virologic or immunologic approaches to viral infections. Areas of study include AIDS and chronic fatigue syndrome. Open to U.S. citizens or permanent residents. Send curriculum vitae to: Dr. Jay Levy, Cancer Research Institute, University of California Medical Center, San Francisco, CA 94143-0128. The University of California is an Equal Opportunity Employer. The Medical Research Council of Canada and Ciba-Geigy Canada Ltd. are pleased to announce the establishment of the MICHAEL SMITH/CIBA-GEIGY/ MRC PROFESSORSHIP to be held at THE NEUROSCIENCE RESEARCH INSTITUTE, UNIVERSITY OF OTTAWA

Applications for this position are now invited from candidates with a proven record of research productivity in the field of molecular neuroscience. Relevance to mechanisms of cell death, neurodegeneration and neuronal survival is desirable. The position is open to candidates from assistant to full professor. Applicants should submit a C.V. and a summary of their research interest as well as future plans. Applications will be peer-reviewed by the Medical Research Council, and in accordance with Canadian immigration requirements, this advertisement is directed primarily to Canadian citizens and permanent residents. Please send application before October 31, 1994 to:

Dr. A. Hakim University of Ottawa Neuroscience Research Institute 451 Smyth Road Ottawa, Ontario, K1H 8M5 CANADA

# **PROGRAM TEAM LEADER**

# **G-Protein Coupled Receptor**

COR Therapeutics, Inc. is a publicly-held biopharmaceutical company located in the San Francisco Bay Area. We specialize in the discovery and development of novel pharmaceutical products for the treatment and prevention of severe cardiovascular disease. We currently have an exceptional opportunity for an experienced Senior Scientist to lead our G-Protein Receptor Coupled research team.

This individual will be responsible for directing the efforts of existing groups of biochemists, molecular, and cell biologists involved in research programs in the G-protein coupled receptor area. The Program Team Leader will also be responsible for coordinating and evaluating outside collaborations and interacting with individuals involved in pharmacology, drug screening and medicinal chemistry efforts directed at these Gprotein coupled receptors.

The successful candidate will have a Ph.D. in Molecular or Cell Biology or a related field. The position also requires 7-10 years of experience focused on the biology of G-protein coupled receptors. Previous experience in these areas related to cardiovascular disease would be a plus. The candidate should also have recent experience in state of the art technology in molecular biology and biochemistry and their applications to drug discovery. Additionally, the candidate should have demonstrated superior management skills and be able to successfully function in a highly collaborative atmosphere.

COR Therapeutics, Inc. offers competitive salaries, benefits and attractive equity positions to its employees combined with the challenge and opportunity to make significant research contributions. To apply, please send curriculum vitae to: COR Therapeutics, Inc., Human Resources (Job Code #R36-94-S), 256 East Grand Avenue, South San Francisco, CA 94080. COR is an equal opportunity employer.

COR COR THERAPEUTICS, INC.

# **Biological Leadership**

#### New Directions in Biotechnology

In your search for an exciting career opportunity, consider joining our well-funded state-of-the-art biotechnology site. We are committed to the development and production of a new generation of healthcare products through biotechnology.

Positions are available in departments engaged in media preparation, cell culture, fermentation, protein purification, bulk formulation, sterile filtration and analytical development. Some positions involve the start-up of new facilities and the development of new production processes.

Depending on the specific position, job requirements include: B.S., M.S., PhD., or equivalent experience in applicable discipline, with specific experience in industrial mammalian cell culture, purification, or media production. Additional positions available in Validation, Biochemical Research & Development, and Cellular and Molecular Biology Research.

Excellent salary and benefits package. Interested candidates are invited to submit resumes to:

Miles Inc. Human Resources P.O. Box 1986 Berkeley, CA 94701 EOE/AA/D

PHARMACEUTICAL DIVISION



# Share Our Distinct View of Science

At Alcon Laboratories, Inc., we view scientific discovery as the cornerstone to our success. In order to maintain our position as THE global leader with over \$1.3 billion in annual sales, we continue to concentrate on what we do best innovation in the research and development of ophthalmic and vision care products.

# Senior Scientist Research and Development

The ideal professional will lead a team for the Ophthalmic Therapeutic Surgical Solutions Research Program by identifying/selecting product profiles, and validating and coordinating concepts for new therapeutic products. Other responsibilities include remaining current with global developments in the ophthalmic surgical therapeutics field and keeping abreast of global regulations. Requirements include a Ph.D. in Biological Sciences/Biochemistry and 7 years related industry experience, as well as excellent interpersonal and oral/written communication skills.

If you share our distinct view of science, consider a career with Alcon Laboratories, a proud member of the Nestlé family. We are headquartered in Fort Worth, Texas, where a warm climate, low cost-of-the-living and a variety of recreational and cultural facilities are part of the Sunbelt lifestyle. Our professionals also enjoy a state-of-the-art environment, and an excellent salary and benefits package, as well as the opportunity for career advancement. For consideration, please forward your curriculum vitae, addresses and phone numbers of 3 references in confidence to: Alcon Laboratories, Inc., Placement and Development, T1-3 (SSRD), P.O. Box

6600, Fort Worth, TX 76115. Equal Opportunity Employer, M/F/D/V. Principals Only, Please.



#### POSTDOCTORAL POSITIONS

Several positions are available immediately for molecular biologists, cell biologists, and electrophysiologists to study the regulation of ion channels and exocytosis during fertilization. The electrophysiologist should be familiar with patch clamping and experience with perforated patches is desirable.

Interested candidates should send curriculum vitae and the names of three references to: Dr. Harvey Florman

#### C/O Human Resources, Worcester Foundation for Experimental Biology 222 Maple Avenue Shrewsbury, MA 01545, USA

POSTDOCTORAL POSITION available, Department of Pharmacology, September 1, 1994, to clone genes encoding liver-specific transcription factors. Background in Molecular Biology and a Ph.D. degree required. Competitive salary plus fringe benefits. Send curriculum vitae and three letters of reference to: Department of Human Resource Services, University of North Texas Health Science Center at Fort Worth, 3500 Camp Bowie Boulevard, Fort Worth, TX 76107. Affirmative Action/Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITION available immediately for U.S. citizens and permanent residents to study neurobiological mechanisms underlying recovery of function after CNS lesions. An interactive, multidisciplinary research and clinical program jointly administered by the Department of Neurobiology at Medical College of Pennsylvania and Department of Rehabilitative Medicine at Thomas Jefferson University provides training in basic neuroscience emphasizing the principles of neuroplasticity that promote recovery. Particular interests are in development defects and spinal injuries. Projects include molecular and cell biological, neurophysiological, pharmacological, neuroanatomical and behavioral approaches to the study of recovery. M.D. or Ph.D. required. Please send curriculum vitae, a brief description of research interests and the names of three referees to: Marion Murray, Professor of Anatomy and Neurobiology, Medical College of Pennsylvania, Philadelphia, PA 19129; or Email: muray@ccc.medcolpa.edu. Affirmative Action/ Equal Opportunity Employer.

#### MOLECULAR REPRODUCTIVE BIOLOGY AND MEDICINE

**POSTDOCTORAL RESEARCH ASSOCIATE** positions are available to work on endocrine regulation of human fetoplacental unit, reproductive tract, brain, behaviors, vasculature, nuclear receptors for protein hormones and nuclear eicosanoid biosynthetic enzymes. Candidates with working experience in cell culture, various blotting techniques, nuclear run on transcription, *in vitro* transcription and translation, mRNA stability measurements, quantitative RT-PCR, construction of antisense expression vectors, transfections, deletional, gel shift and DNase I foot printing analyses of 5'-flanking region of genes, site directed mutagenesis, gene knockouts, stereotaxic and neuroendocrine manipulation techniques are encouraged to apply. Dr. C.V. Rao, Department of Obstetrics/Gynecology, 438 MDR Building, University of Louisville Medical Center, Louisville, KY 40292. FAX: 502-852-0881.

**POSTDOCTORAL POSITION** available to study homologous recombination in mammalian cells. Projects will focus on (i) mechanisms of normal genomic rearrangements; (ii) genetic instability in cancer cells; (iii) development of methodologies for efficient gene targeting. Experience in molecular biology and/or biochemistry is required. Send curriculum vitae with bibliography, description of research experience, and three letters of reference to: Dr. Alan S. Waldman, Department of Biological Sciences, University of South Carolina, Columbia, SC 29208.

#### **POSITIONS OPEN**

#### RESEARCH TRAINING IN 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.

#### INSTITUTE OF MOLECULAR BIOLOGY (IMB) Academia Sinica, Taiwan, ROC

POSTDOCTORAL POSITIONS available immediately to work on gene structure and regulation in normal and disease human cells. Recent Ph.D. with research experience and interests in relevant fields are encouraged to apply. Candidates with a knowledge and techniques of recombinant DNA, protein isolation, protein-DNA interaction, mammalian cell culture, and yeast cloning system are preferred, but others are also welcome to apply. Salary \$24,000 to \$28,500 per annum. Please send curriculum vitae and three letters of reference to: Ms. Fei Chen at the Institute of Molecular Biology, Academia Sinica, Nankang, Taipei 115, Taiwan, ROC. FAX: 886-2-782-6085.

#### POSTDOCTORAL POSITION

Available immediately, to characterize the expression and regulation of molecules which mediate invasion of ovarian cancer cells through the extracellular matrix. Knowledge of molecular and cell biological techniques is required. Ultimate goal will be to determine the *in vivo* relevance of molecules such as matrix metalloproteinases in a nude mouse model of ovarian cancer metastasis. Send curriculum vitae and three letters of recommendation by October 31, 1994, to: **Dr. Stephen A. Cannistra** at the address listed below.

**POSTDOCTORAL POSITION; Division of Pediatric Oncology**. The projects in the laboratory are focused on understanding the assembly and cell cycle regulation of components of the yeast mitotic spindle. The work involves molecular biology, cell biology and biochemistry. M.D. or Ph.D. is required. Send curriculum vitae and three letters of recommendation to: **Margaret Koval, Human Resources** at the address listed below.

Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. An Equal Opportunity Employer.

#### POSTDOCTORAL POSITION CYTOSKELETAL-BASED MOTILITY

Health Research, Inc., a not-for-profit organization, seeks a **POSTDOCTORAL FELLOW** to work in The Wadsworth Center to use molecular genetic and structural biology methods to study functions of the microtubulebased motor dynein in *Dictyostelium*. Applicants must have prior molecular or biochemical experience. Send curriculum vitae, a statement of research interests and experience, and naptes and addresses of three references to: **Dr. Michael Koonce, C/O The Wadsworth Center, New York State Department of Health, Empire State Plaza, P.O. Box 509, Albany, NY 12201-0509.** An Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** in Neurotoxicology immediately available to study free radical mechanisms in chemical-induced brain damage. One position requires expertise in microdialysis and analytical procedures and the other in *in situ* mRNA hybridization. Send applications and names of three references to: Dr. Tom Pazdernik, Smith Research Center, Building 37, Room 115, University of Kansas Medical Center, Kansas City, KS 66160-7336. Telephone: 913-588-7504; FAX: 913-588-5677. An Equal Opportunity Employer.

#### PH.D. IN PHARMACOKINETICS or related discipline, capable of performing bioavailability/metabolism studies in drug discovery area. Candidate will have two or more years of relevant experience, good verbal and written skills, and ability to interact effectively in a multidisciplinary environment. Industrial experience preferred. PH.D. SCIENTIST/ASSAY DEVELOPMENT. Requires at least four years of experience in diagnostics in dustry, including work on immunoassays for esoteric, or difficult to measure, markers. Responsibilities include assay development and optimization, involving an understanding of product development process and company's research field. Supervisory experience a plus. This growing pharmaccutical diagnostic biotechnology company is located in north suburbs of Chicago. Submit résumé with two professional references to: Personnel Manager, Molecular Geriatrics Corporation, 101 Waukegan Road, Suite 970, Lake Bluff, IL 60044.

#### CELL CYCLE STRUCTURAL BIOLOGISTS

POSTDOCTORAL POSITIONS available now for collaborative research between Steve Reed's Cell Biology Group and John Tainer's Structure Group to pursue joint structure-function studies on cell cycle control proteins using the techniques of cell and molecular biology, biochemistry, and X-ray crystallography and leading toward novel cancer drug design. Relevant experience preferred. Excellent environment and facilities. Send curriculum vitae and names of three references to: Steve Reed or John Tainer, Molecular Biology MB4, The Scripps Research Institute, La Jolla, CA 92037. Fax: 619-554-6880; Email: jat@scripps.edu. Minority applicants encouraged.

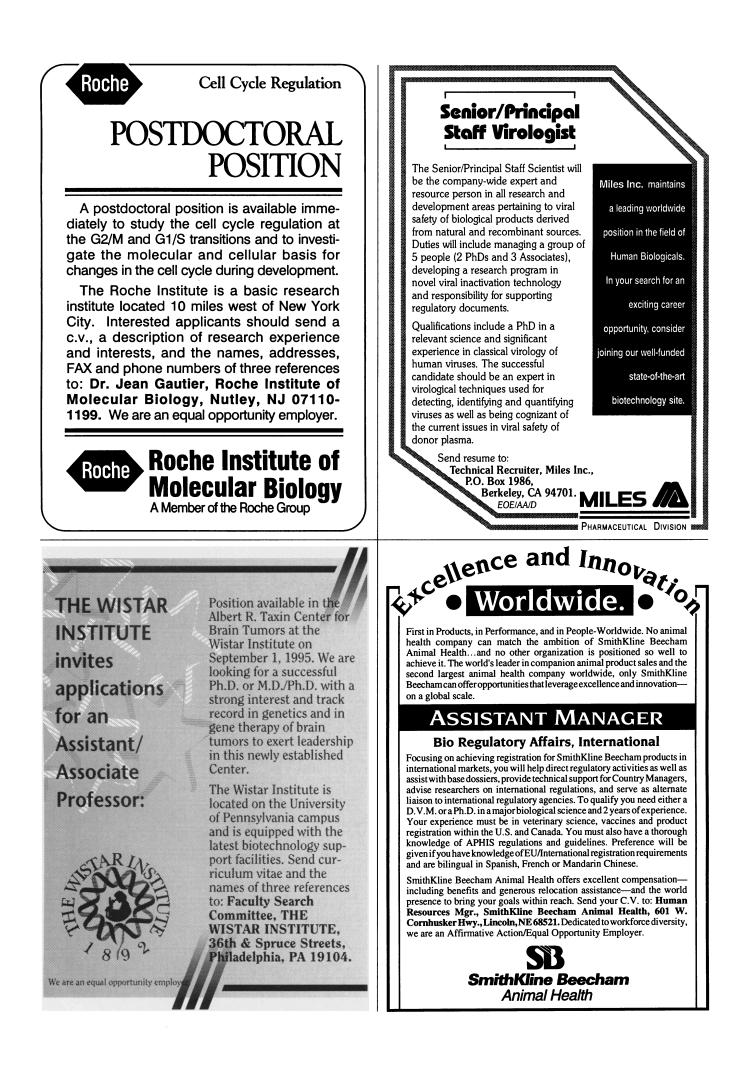
POSTDOCTORAL POSITION in Neuroimmunology available immediately. NIH-supported position to study molecular and immunological mechanisms of the autoimmune disease Myasthenia Gravis. Development of molecular therapeutic strategies for specific treatment of experimental and human Myasthenia including induction of anergy; "targeting" specific T cells; and new agents for specific therapy of autoimmune diseases. Must have Ph.D. or M.D., knowledge of molecular biology and some cellular immunology, and laboratory experience. FAX or send letter describing background and interest, curriculum vitae, and three references to: Daniel B. Drachman, Director, Neuromuscular Unit, Johns Hopkins School of Medicine, 600 North Wolfe Street, Baltimore, MD 21287-7519. FAX: 410-955-1961. An Equal Opportunity Employer.

**RESEARCH SCIENTIST/POSTDOCTORAL POSITION** available immediately at Yale University to investigate molecular and physiologic regulation of K-ATPase/active K transport in laboratory studying colonic ion transport. Ph.D. with strong background in molecular biology required. Experience with cell culture and physiological systems desirable. Candidates should be U.S. citizens or have permanent residency. Send curriculum vitae, summary of research interests and names of three references to: Dr. Henry J. Binder, Department of Medicine, 333 Cedar Street, New Haven, CT 06510. FAX: 203-785-7273. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION** available to study the molecular biology and biochemistry of heart mitochondria during growth and development and disease (*Cardiovasc. Res.*, **28**:456, 1994). Requirements include a Ph.D. in Molecular Biology and experience in RT-PCR, *in situ* PCR, *in situ* hybridization and cell culture. Good writing and verbal skills. Send curriculum vitae and references to: J. Marin, M.D., The Molecular Cardiology Institute, **75** Raritan Avenue, Highland Park, NJ 08904. FAX: 908-220-2992.

**RESEARCH ASSOCIATE** Neurobiology, University of California, San Francisco. Electrophysiologist sought to participate in research on neural mechanisms underlying opioid analgesia and pain modulation. Familiarity with pharmacology and/or basic anatomical methods also desirable. Position available in March 1995. Minority and women applicants are encouraged. Send résumé with names of three references to: Howard Fields, Box 0114-Neurology, University of California, San Francisco, San Francisco, CA 94143. FAX: 415-476-9386.

POSTDOCTORAL POSITION available to study immune recognition molecules (antibodies and TCRs) using molecular biological and biophysical techniques. Please send curriculum vitae and names of three referees to: Dr. E. Sally Ward, Cancer Immunobiology Center and Department of Microbiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576. University of Texas Southwestern is an Equal Opportunity Institution.



POSTDOCTORAL POSITION available immediately at Thomas Jefferson University to investigate the function of a new extracellular matrix gene using transgenic/knockout technologies. Ph.D. with a background in molecular/cell biology is required. Experience with mice and in tissue culture desired. Send curriculum vitae and names of three references to: Dr. Mon-Li Chu, Department of Biochemistry and Molecular Biology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.

The Department of Veterans Affairs Medical Center, Ann Arbor, Michigan is seeking applicants for a non-clinical **RESEARCH POSITION** with appropriate educational background having at least one year of molecular biology experience with expertise in gene transfer techniques including adenoviral, retroviral and plasmid methodologies for gene therapy initiatives. Ex-perience with gene transcriptional regulation processes also necessary. Expert abilities of gene transfer in both endothelial and renal epithelial cells required. Hollow fiber bioreactor set-up and design capabilities mandatory. Cardiovascular surgical skills and invasive hemodynamic monitoring techniques required. Salary range. of \$35,250 to \$45,828. Applicants should forward cur-riculum vitae, description of previous research experience and names of three references by November 1, 1994, to: Dr. H. David Humes, Medicine Service, Department of Veterans Affairs Medical Center, 2215 Fuller Road, Ann Arbor, MI 48105. An Equal Opportunity Employer.



#### **RESEARCH ASSOCIATES**

EntreMed, Inc., a company that specializes in development of innovative products from academic research, an-nounces the availability of four POSTDOCTORAL PO-SITIONS and two TECHNICAL POSITIONS in ba-sic science: (1) Molecular biology of genes that regulate angiogenic processes; (2) Immune modulation of septic shock; (3) Molecular vaccines; (4) Angiogenic growth factors in neoplastic disease; and (5) Immunologic interventions in atherosclerotic disease.

Positions are for two to four years beginning 1 October 1994; salaries are based on experience and publication record

Send transcript and curriculum vitae by November 30, 1994, to:

EntreMed, Inc. ATTN: Ms. Málena Ruiz 9610 Medical Center Drive, No. 200 Rockville, MD 20850

### DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS) Veterinary Medical Officer/Microbiologist

USDA, ARS is seeking a qualified applicant to conduct research on respiratory diseases in turkeys or swine and to serve as a Research Leader of the Avian Diseases Research Unit, National Animal Disease Center, Ames, Iowa. This Unit is concerned with respiratory diseases of turkeys and swine caused by bacteria or fungi.

Directly related education and/or work experience is required. Ph.D. is desirable. Must be U.S. citizen. Salary is commensurate with experience (GS-13/14/15; \$49,401 to \$68,667 per annum). For information on the research program or position, call Dr. Harley W. Moon, Director, NADC, on 515-239-8201. For information on the application procedures/forms, contact Yolanda G. Wilson on 301-344-8506. Applications in response to this advertisement should be marked **4N040**. Applications must be postmarked by December 13, 1994. Directly related education and/or work experience is

199

Mailing address:

USDA, Agricultural Research Service Personnel Operations Branch Northern Section 6305 Ivy Lane, Room 322 Greenbelt, MD 20770-1435 An Equal Opportunity Employer.

**RESEARCH ASSISTANT PROFESSOR** for a university for education and research in northwest Ohio to develop a model cell culture system to represent cancer progression. Investigate the molecular mechanisms involved in growth stimulation by growth factors and oncogenes. Inves-tigate the molecular mechanisms involved in the interactions between steroid hormones and growth factors in cancer models. These studies will involve the use of gene expression techniques including gene promoter activity studies and RNA quantitation. Ph.D. in Medical Science, Biochemistry culture and library screening and work with steroid receptors in the job offered or in related occupation required. 40 hours per week, 8 a.m.-5 p.m. Monday through Friday; \$31,460 per year. Must have legal authority to work indefinitely in the United States. Send résumé in duplicate (no calls) to: J. Davies, JOB No. 00181, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216. Equal Opportunity/Affirmative Action Employer. Male/Female/Disabled/

#### DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

#### Veterinary Medical Officer/Microbiologist/ Research Animal Scientist/Research Physiologist (Animal)

USDA, ARS is seeking a qualfied applicant to conduct research on intestinal infections in cattle or swine and to serve as a Research Leader of the Physiopathology Research Unit, National Animal Disease Center, Ames, Iowa. This Unit is concerned with intestinal diseases of livestock, bacteria which are carried by animals and cause foodborne illness in people, and metabolism of toxic forages by ruminants.

Directly related education and/or work experience is required. Ph:D. is desirable. Must be U.S. citizen. Salary required. Ph:D. is desirable. Must be U.S. citizen. Salary is commensurate with experience (GS-13/14/15; \$49,401 to \$68,667 per annum). For information on the research program or position, call **Dr. Harley W. Moon**, Director, NADC, on 515-239-8201. For information on the application procedures/forms, contact **Yolanda G. Wilson** on 301-344-8506. Applications in response to this advertisement about da a marked **40030** 

Applications must be postmarked by December 13, 1994.

Mailing address:

USDA, Agricultural Research Service Personnel Operations Branch Northern Section 6305 Ivy Lane, Room 322 Greenbelt, MD 20770-1435 An Equal Opportunity Employer. **RÉSEARCH ASSOCIATE** 

Edward J. Lesnefsky, M.D. in the Division of Cardiology and **Charles L. Hoppel** in the Division of Clinical Pharmacology at Case Western Reserve University have a **RESEARCH ASSOCIATE POSITION** available immediately for a Ph.D. scientist funded by their collaborative NIH study "Aging, Cardiac Mitochondria, and Ischemic Injury." The project involves the cell and molecular biologic approach to mitochondria as a mechanism of oxidative inju-ry in the aging heart during ischemia and reperfusion. The scientist will perform, design, and analyze experiments in concert with the principal investigators. Previous work and interest in the area of chemical mechanisms of oxidative interest in the area of chemical mechanisms of oxidative tissue damage is particularly welcome. Interested parties should contact: Edward J. Lesnefsky, M.D., Division of Cardiology, University Hospitals of Cleveland, 11100 Euclid Avenue, Cleveland, OH 44106-5038. Tele-phone: 216-844-8904; FAX: 216-844-8954. Case West-ner, Duran University in a Faurd Conservative Afforsting Action m Reserve University is an Equal Opportunity/Affirmative Action Employer.

# RESEARCH ASSOCIATES MOREHOUSE SCHOOL OF MEDICINE

Two **POSITIONS** are immediately available at the Ph.D. or M.D. level. Molecular Biology: To participate in investigations of host and parasite factors involved in invasion of epithelial cells by much and pathogens. Candidates should be skilled in cell culture and molecular genetic technologies. Image Analysis: To assist the faculty director in the operaground in cell biology and experience with confocal micros-copy or video-based digital imaging microscopy are required. Experience in UNIX programming and computer interfacing is desirable. Please submit curriculum vitae, summary of research background and names of three references Mary Or Rotent CL Bond, Department of Biochemistry, Morehouse School of Medicine, 720 Westview Drive, Atlanta, GA 30310-1495. FAX: 404-752-1179.

#### **POSITIONS OPEN**

SENIOR MARKET RESEARCH ANALYST-Ph.D.-Science and Math/Academic Publishing. Simon & Schuster provides the products and services that entertain and educate the world. Our College Publishing Unit seeks a professional to lead research on undergraduate science, math and engineering curriculums. Research focuses on improving science and math textbooks and researching and developing the marketing for instructional technology in the sciences. Liaison with authors, editors, university faculty, professional societies, foundations and NSF. Position requires a Ph.D. in a relevant field coupled with excellent computer and communication skills. Experience in science writing or educational publishing is essential. We offer a highly competitive compensation pack-age including salary, bonus and benefits. Please send letter and curriculum vitae to: Seth Reichlin, Market Re-search Department, Simon & Schuster, 113 Sylvan Avenue, Route 9W, Englewood Cliffs, NJ 07632. Email: seth@prenhall.com. We are advocates of and encourage Equal Opportunity Employment.

**RESEARCH ASSOCIATE**-conduct research on the mechanism of insulin signal transduction in normal and insulin resistant cells in culture using molecular, biochem-ical and enzymatic approaches. Preferences will be given to individuals with strong molecular biology/biochemistry background with at least two to three years of hands-on experience in protein purification, DNA manipulation, tissue culture including transfections, and enzyme kinetiss M.D. or Ph.D. in biochemistry with two to three years of experience desired. Please send curriculum vitae to: Employment Specialist, Winthrop-University Hospi-tal, 259 First Street, Mineola, NY 11501. Equal Oppor-tunity Employer/Male/Female/Disabled/Veterans.

RESEARCH SCIENTIST: Research Institute seeking scientist with experience in the synthesis of Brevetoxins and associated marine compounds. Ph.D. in chemistry and postdoctoral training demonstrating skills in synth-sis of Brevetoxins. Must have competence in spectroscopic techniques and knowledge of computer molecular modeling as it relates to highly sensitive molecules in complex biologically active natural products. Starting sal-ary \$28,000, negotiable. Direct inquiries to: L. Quinsaat, The Scripps Research Institute, 10666 North Torrey Pines Road, TPC-11, La Jolla, CA 92037.

#### PLANT

#### MOLECULAR GENETICIST

The University of Kentucky, Tobacco and Health Research Institute is seeking to recruit a senior faculty member interested in the molecular genetics of tobacco and other higher plants. The position carries with it tenure in a department in the College of Agriculture and a very a department in the package relative to financial support and laboratory space. The goal is to conduct research and build a research program directed at genetically engineerbillid a research program directed at genetically engineer-ing tobacco to produce substances such as protein, chem-icals, enzymes, fibers, etc., which would have commercial value. Applications should be sent to: Director, Tobacco and Health Research Institute, University of Ken-tucky, Cooper and University Drives, Lexington, KY 40546-0236.

Deadline for applications is 1 December 1994. The University of Kentucky is an Equal Opportunity Employer.

#### PLANT MOLECULAR SYSTEMATIST

The New York Botanical Garden invites applications for the position of **PLANT MOLECULAR SYSTEM**-ATIST in the Institute of Systematic Botany. Qualifica-tions include a Ph.D. in Botany or Biology, demonstrated excellence in Molecular Systematics, a strong background in Plant Taxonomy, and several years of postdoctoral ex-perience. The successful candidate will conduct research in botanical or mycological systematics with an emphasis on employing molecular techniques. Work will involve teaching and advising of students in the Garden's Graduate Studies Program, and publishing research results in peer-reviewed scholarly journals. The individual occupyfunds and assist in other departmental and division-wide duties. This position begins April 1, 1995. Excellent benefits. To apply submit a letter stating research interests and goals, curriculum vitae, and the names of three refer-ences to: Personnel Manager-MS, The New York Botanical Garden, 200th Street and Southern Boule-vard, Bronx, NY 10458-5126, USA. FAX: 718-220-6504. Affirmative Action/Equal Opportunity Employer/Male/ Female/Disabled/Veterans.

# BS/MS **MOLECULAR BIOLOGIST**

For more than 115 years, Eli Lilly and Company has been a leader in the research, development, manufacturing, and marketing of innovative pharmaceutical products. We have a history of a strong commitment to excellence and to our employees.

We have an immediate career opportunity for a molecular biologist in the Endocrine Research Department of Lilly Research Laboratories. A BS or MS degree with experience in neurobiology is required. Experience in relevant techniques such as in situ hybridization; Southern, Northern and Western blot analysis; gene cloning; and DNA sequencing would be desirable. The successful candidate will work on research projects directed towards understanding the molecular basis of estrogen and estrogen analogue actions in cognitive function and injury repair in the central nervous system.

We offer an attractive salary and benefits package, as well as opportunities for continued professional growth through in-house seminars and off-site programs. Please send resume to: Debbie Guttman-Carlisle, Corporate Recruitment, Dept. RS-94, Eli Lilly and Company, Indianapolis, IN 46285.

Eli Lilly and Company is an equal opportunity employer committed to diversity in the workplace.



# Leicester University

**Department of Biochemistry** 

# POSTDOCTORAL RESEARCH

#### **Recognition of Specific RNA Sequences by Proteins**

Applications are invited for an MRCfunded post investigating the molecular mechanisms by which proteins involved in RNA splicing recognise specific RNA sequences. The post is available for three years. The salary is on the R&A IA scale(£13,941 to £20,953 pa), with a starting salary of up to £17,813 pa. A PhD and a good first degree are required, with experience in protein biochemistry or molecular biology. International applications are welcomed.

Applications (including a CV and the names of two referees) should be sent to Dr Ian Eperon, Department of Biochemistry, University of Leicester, University Road, Leicester LE1 7RH.UK. Informal enquiries should be made on tel: (0116) 2523482.

Towards equal opportunities.

# Diagnostics Sales

Move into the exciting field of diagnostics sales and step up to a world of opportunity.

Our Diagnostics Group serves the clinical diagnostics market worldwide. Continued introduction of new products has created a need for sales representatives in several U.S. cities. Career paths include sales and product management leading to general management.

We require a B.S. or equivalent in a Life Science (MS, PhD or MBA is a real plus). Successful candidates must be willing to relocate.

For consideration, please send your resume to: Bio-Rad Laboratories, 4000 Alfred Nobel Dr., Dept. 444, Hercules, CA 94547. EOE MFDV.



# POSTDOCTORAL POSIT

A postdoctoral position is available to study the Saccharomyces cerevisiae mRNA transcription apparatus with emphasis on genetic and biochemical analysis of RNA polymerase II subunit function. Experience in molecular biology is essential and prior experience in yeast and/or transcription preferred.

The Roche Institute of Molecular Biology is an academic research institute funded by, but independent from, Hoffmann-La Roche. The institute is affiliated with Columbia University, has exceptional resources, competitive salaries and is located in a suburban setting 10 miles west of New York City. Please send curriculum vitae and three letters of reference to: Dr. Nancy Woychik, Roche Institute of Molecular Biology, 340 Kingsland St., Nutley, NJ 07110. FAX: 201-235-5848. We are an equal opportunity employer.

Roche

# Roche Roche Institute of **Molecular Biology**

A Member of the Roche Group



#### Chair, Department of Physiology Faculty of Medicine, **University of Toronto**

Applications are invited for the position of Chair, Department of Physiology of the Faculty of Medicine at the University of Toronto.

The successful candidate will have an active research program and a strong record of scholarly achievement. She or he must be committed to excellence in education and have the leadership qualities and administrative skills necessary to develop the academic programs of the Department.

Applications should be sent to: Dr. Applications should be sent to: Dr. Arnie Aberman, Dean, Faculty of Med-icine, University of Toronto, Room 2109, Medical Sciences Building, 1 King's College Circle, Toronto, Ontario, M5S 1A8, FAX (416) 978-1774. Appli-cants should enclose a current current cants should enclose a current curriculum vitae. Applications must be re-ceived before November 15, 1994.

The University of Toronto encourages applications from qualified men and women, members of visible minorities, aboriginal peoples and persons with disabilities. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

The Seattle Biomedical Research Institute (SBRI) invites applications for SENIOR or STAFF SCIENTIST positions with parallel academic appointments in Patho-biology at the University of Washington (UW). Appli-cants must have an independently funded research program in pathogens and/or host systems with which they interact and be willing to participate in graduate student training. The applicants' research should examine host cell processes that are perturbed by pathogens, mecha-nisms of pathogenesis or properties of pathogens or hosts that can be exploited to develop disease control measures. Please send curriculum vitae, statement of proposed re-search and three recommendation letters to: Search Committee, Seattle Biomedical Research Institute, 4 Nickerson Street, No. 200, Seattle, WA 98109-1651. SBRI and UW are Equal Opportunity/Affirmative Action Emplovers.

#### SCIENTIFIC AFFAIRS OFFICER MONTREAL NEUROLOGICAL INSTITUTE McGILL UNIVERSITY

The Montreal Neurological Institute (MNI) is seeking to hire a SCIENTIFIC AFFAIRS OFFICER who will assist the MNI Director in carrying out the scientific mission of the Institute. Responsibilities include organization of the internal grant review program and applications for program and group applications, preparation of scientific reports, Institute retreats, and organization of actual ex-ternal program reviews. This individual will also be re-sponsible for the Integrity in Scholarship program, University/Institute relations, and educational program, orn the public. Applicants with M.D. or Ph.D. degrees and experience in university or industrial-based research organizations, or in foundations competitively funding medical research will be of particular interest. Applications should be sent to:

Dr. Richard A. Murphy Director, Montreal Neurological Institute **3801 University Street** Montreal, Quebec Canada H3A 2B4 The deadline for receipt of applications is November 1, 1994.

McGill University is committed to Equity in Employment.

#### UNIVERSITY OF VERMONT ASSISTANT PROFESSOR OF NEUROLOGY, AND ANATOMY AND NEUROBIOLOGY

The Departments of Neurology, and Anatomy and Neurobiology, of the University of Vermont College of Medicine seek a **NEUROSCIENTIST** with graduate and postgraduate training in areas related to the cellular and molecular neurobiology of neurological disease. While qualifications for this tenure-track position include imaginative research in any area of cellular and molecular neurobiology, fundamental research which may be applicable to age-related neurodegenerative diseases, neuronal vulnerability and neuroplasticity related to neuronal iniury and disease, or the molecular genetics of neurological diseases are high priority areas. Joint appointments in both departments and the opportunity to be involved in educational programs for undergraduate, medical and graduate students, as well as postgraduate fellows and physicians are available.

Applicants should submit curriculum vitae, bibliography, a brief (limit 500 words) description of research interests, and ask three references to send letters of recommendations to: Dr. R. W. Hamill, Chair, Neurology, Medical Center Hospital of Vermont, Brown 313, Burlington, VT 05401. Applications will be accepted until the position is filled.

The University of Vermont is an Affirmative Action/Equal Opportunity Employer. Women and people from diverse racial, ethnic and cultural backgrounds are encouraged to apply.

**ANALYTICAL CHEMIST** position in the Division of Clinical Pharmacology at the Uniformed Services Uni-versity to study *in vivo* and *in vitro* drug metabolism. Extensive experience with HPLC required. Minimum qual-ifications are Ph.D. with postdoctoral experience or M.S. with significant work experience. Send curriculum vitae and three letters of recommendation to: Louis R. Can-tilena, Jr., M.D., Ph.D., Division of Clinical Pharma-Cology, USUHS, Room B2020, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Uniformed Services University of the Health Sciences is an Equal Opportunity/Affir-mative Action Employer.

#### **POSITIONS OPEN**

#### CELLPRO, INC.

CellPro, a biotechnology company located in the Seat-tle area, has a **RESEARCH ASSOCIATE** opening. Qualifications are: B.S. in a biological science, and three years of lab experience. Must have extensive technical skills in the area of FISH, image analysis and automated slide scanning techniques. Other molecular biology techniques are a plus. CellPro offers competitive salaries and an excellent benefit package. Please send your résumé to: Human Resources, CellPro, Incorporated, 22215-26th Avenue SE, Bothell, WA 98021-8446.

#### SMITHSONIAN INSTITUTION FELLOWSHIP PROGRAM

GRADUATE STUDENT, PREDOCTORAL, **POSTDOCTORAL, AND SENIOR FELLOW-SHIPS** in Animal behavior, ecology, and environmental science; including an emphasis on the tropics; Earth sciences and paleobiology; Evolutionary and systematic biology; History of science and technology. Tenable in residence at the Smithsonian facilities. Stipends and tenure vary. Deadline: January 15 annually. Contact: Office of Fellowships and Grants, 955 L'Enfant Plaza, Suite 7000, Desk S, Washington, D.C. 20560. Telephone: 202-287-3271. An Equal Opportunity Employer.

#### SYSTEMATIC BOTANY

The Field Museum is seeking an outstanding SYS-TEMATIC BOTANIST for a career-track appointment in the Department of Botany at the level of ASSISTANT CURATOR. Candidates pursuing innovative specimenbased research in macrofungi, including lichens, bryophytes, pteridophytes or angiosperms, and who are also making important contributions in a second field such as conservation, ethnobotany, theoretical systematics, de-velopmental biology or population genetics, will be given special attention. In addition to research, responsibilities include curation of relevant collections and participation in public education and exhibit programs. The successful candidate will have a Ph.D., a proven record of scientific achievement and the ability to establish an externally funded research program. Curators teach at local universities and there are opportunities for participating in un-

dergraduate and graduate training. The Botany Department is part of the Museum's Center for Evolutionary and Environmental Biology, which includes the departments of Geology and Zoology. Facil-ities include over 2.5 million botanical specimens (including one of the world's richest collections of neotropical plants), an outstanding library, and molecular systematics and biochemical laboratories. Consideration of applications will begin on October 17, 1994. Please submit curriculum vitae; a statement of research objectives; names, addresses and contact numbers of at least three references; and copies of relevant publications to: Search Committee, Department of Botany, The Field Muse-um, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605-2496. Email: botany@fmnh.org. As an Equal Opportunity/Affirmative Action Employer, we especially encourage applications from women and minorities and we are responsive to dual-career needs.

#### GRADUATE FELLOWSHIPS in Protein Engineering

An interdisciplinary graduate program leading to a Ph.D. in Biological Sciences, Chemistry, or Engineering with a Concentration in Protein Engineering is offered at the University of California, Irvine. The program provides a unique opportunity for students to work with faculty within the School of Biological Sciences, the Department of Chemistry, and the Department of Biochemical Engineering and to focus their coursework and research in the areas of protein structure and function and molecular biology. The program brings together approximately 20 faculty with research interests in structure/function of enzymes, metalloproteins, receptors, and growth factors; protein folding and design; bioremediation; protein modification with non-natural amino acids; NMR spectroscopy; and X-ray crystallography.

The application deadline for fall 1995 admission is Febin Protein Engineering, University of California, Ir-vine, CA 92717-1450. Telephone: 714-856-6686; Internet: Prot.Engr@UCL.edu. Applications from underrepresented groups, including minorities, women, and people with disabilities, are encouraged.

### MEETINGS CHEMICAL MIXTURES

#### AND QUANTITATIVE RISK ASSESSMENT

The Second Annual Symposium of the Health Effects Research Laboratory will be held November 7 to 10, 1994, at the North Raleigh Hilton in the vicinity of Research Triangle Park, North Carolina. The focus will be recent progress in chemical mixtures research, emphasiz-ing advances in mechanistic understanding. Topics for discussion include current risk assessment guidelines and practices; experimental approaches, methods, and models to evaluate mixtures; and pharmacokinetic and pharmacodynamic interactive mechanisms. The purpose is to identify critical data needs and important future research directions, and to promote active dialogue on the role of mechanistic research on chemical mixtures in future risk-assessment

strategies. For more information, please contact: RSD Conference Coordinator MD-70, Health Effects Research Laboratory U.S. EPA Research Triangle Park, NC 27711 Telephone: 919-541-5193. FAX: 919-541-4002. Internet: meeting\$mail@herl45.herl.epa.gov.

#### **ANNOUNCEMENTS**

#### LEUKEMIA RESEARCH FOUNDATION GRANTS

The Leukemia Research Foundation, Inc. announces funds are available to support research in the field of leukemia. The goal of the grant program is to support new investigators; preference will be given to applicants proposing new lines of investigation. Currently two types of Grants are being funded: **RESEARCH GRANTS**, and **POSTDOCTORAL FELLOWSHIPS**. Grants and fellowships are for a one-year period, and may be renewable for a second year. Deadline for receipt of complet-ed grant applications is February 15, 1995. Research Grant Policies: 1. Eligibility is restricted to investigators who are staff members of a university, hospital, or a non-profit research institute. The applicant must be less than five years beyond the end of training at the time of the proposed starting date of the grant award. 2. Maximum budget request is \$35,000. The funds may not be used for salary support of the principal investigator. Postdoctoral Fellowship Policies: 1. Maximum budget request is \$20,000. The funds usually are used to support the fellow's salary. 2. Eligibility is restricted to postdoctoral trainees with an M.D. or Ph.D. degree. The fellow must have no greater than three years of postdoctoral training (excluding medical residency) at the time of the proposed starting date of the grant award. For further information and applications, contact: Hollis R. Brownstein, Chairand applications, contact: Hollis K. Brownstein, Chair-man, Medical Advisory Committee, Leukemia Re-search Foundation, Inc., 4761 West Touhy Avenue, Suite 211, Lincolnwood, IL 60646. Telephone: 1-708-982-1480; FAX: 1-708-965-0017.

#### FELLOWSHIPS

A limited number of POSTDOCTORAL and PRE-**DOCTORAL FELLOWSHIPS** are available from Sig-ma Delta Epsilon-Graduate Women in Science, Inc. (SDE-GWIS). Applications from women are particularly encouraged.

Fellowships are for \$1,000 to \$4,000. A total of \$15,000 is available.

Deadline is December 1, 1994 For additional information and application forms send business-sized, self-addressed stamped (52¢) envelope to:

SDE-GWIS P.O. Box 19947

San Diego, CA 92120 Requests for Eloise Gerry Fellowship forms should be made by those in the Biological and Chemical Sciences; others should request SDE Fellowship forms, except SDE-GWIS members, who may request Vessa Notchev forms.

#### TRAVEL AWARDS

Eli Lilly Travel Awards for women graduate students resenting at national meetings are available through SDE-GWIS.

For information write:

Dr. Mary Jane Cunningham 2901 Middlefield Road No. 12 Palo Alto, CA 94306

# **BioGenex**

BioGenex, a world leader in medical diagnostics and DNA synthesis products, was recently voted one of the fastest growing companies in the San Francisco Bay Area. We currently have opportunities for:

#### R&D Scientists

Candidates should have training or experience in the development of research and diagnostic products, and an advanced degree in Cell Biology, Immunology, Anatomic Pathology, Organic Chemistry, Molecular Biology, or Biochemistry. Prior experience in antibody development, protein chemistry, flow cytometry, DNA probes development, nucleic acid chemistry, and immunohistochemistry a plus.

#### Manufacturing and QA Professionals

Successful candidates should have an advanced degree in science, prior experience in manufacturing, QA/QC, and GMP. Previous experience with diagnostic or research product lines helpful:

#### Sales/Marketing Professionals

In addition to a life sciences degree, the successful candidates should have prior experience in sales and/or marketing, have excellent communication skills, and be willing to travel.

We seek dynamic, high energy, self-motivated and results-oriented individuals to work in a small team-oriented environment.

BioGenex offers a competitive salary, stock option plan, 401(k), and excellent benefits. Send resume to:

BioGenex 4600 Norris Canyon Road San Ramon, CA 94583



#### FACULTY POSITIONS at The Ohio State University

The Department of Chemistry seeks to fill several tenure-track faculty positions to begin September 1995. Candidates will be considered at both the junior and senior levels. All areas of chemistry (analytical, biological, inorganic, organic, physical, and interdisciplinary fields) are of interest. Demonstrated excellence in innovative research and strong commitment to teaching at both undergraduate and graduate levels are essential. Candidates should submit a curriculum vitae, list of publications, statements of research and teaching interests, and three letters of recommendation to Chair, Faculty Search Committee, Department of Chemistry, The Ohio State University, 120 W. 18th Avenue, Columbus, OH 43210-1173. Assistant Professor candidates should submit both undergraduate and graduate transcripts.

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 apply.

# **Leading Edge Research**

Arris Pharmaceutical Corporation is a growing biopharmaceutical company dedicated to the rapid development of novel human therapeutics. Arris is committed to an innovative multi-disciplinary and team oriented approach that encourages both creativity & collaboration. We are offering the following career opportunities:

#### FORMULATION SCIENTIST

You will develop different dosage formulations of small molecule protease inhibitors for oral & topical administration; design and validate analytical methods for quantitating the active ingredient; oversee stability testing of the drug product; and coordinate with contract labs, government agencies and associate inflammation program scientists. Candidates must have a Ph.D. in chemistry, biochemistry or related discipline; 4-5 years' pharmaceutical experience in the areas of drug formulation and analytical methods development; and excellent communication and lab skills. Expertise in the areas of protease inhibitors and inflammation preferred. (Job# S0923-FS)

#### **CELL BIOLOGY IMMUNOLOGIST**

You will study the role of mast cells and mast cell proteases in inflammation, and examine the mechanism action of novel protease inhibitors on mast cell function. Ideal candidates will have a Ph.D. in immunology, cell biology, biochemistry or related discipline; 4-5 years' postdoctoral research experience in mast cell biology with prominent publications in this area; and excellent communication and lab skills. (Job#S0923-CBI)

#### DRUG METABOLISM SCIENTIST

You will study the metabolism of protease inhibitors; develop analytical methods for identifying metabolites in biological fluids; support pharmacokinetic studies; and coordinate with contract labs, government agencies, and associate inflammation scientists. The position requires a Ph.D. in chemistry, biochemistry or related discipline; 4-5 years' pharmaceutical experience in the areas of drug metabolism and analytical methods development; and excellent communication and lab skills. Expertise in the areas of protease inhibitors and inflammation preferred. (Job#S0923-DMS)

#### DRUG METABOLISM RESEARCH ASSISTANT

You will be responsible for the execution of in vitro and in vivo metabolism studies; development of analytical methods for isolation; and characterization of test compounds in biological fluids. Candidates must possess a BS/MS in pharmacology, biochemistry, or related discipline; 3-5 years' drug metabolism research experience; and proficiency and using analytical equipment (i.e., HPLC, FPLC, spectrophotometer) and handling radioisotopes. (Job#S0923-DMRA)

#### SENIOR PROTEIN BIOCHEMISTRY SCIENTIST

Leading a protein biochemistry team of 6 scientists, you will work closely with x-ray crystallographers and molecular biologists on structure/function studies. You will also oversee the purification and characterization of rDNA-expressed receptor proteins from a variety of different sources, including eukaryotic cells, yeast and E.coli. The position requires a Ph.D.; minimum 5 years' relevant experience in postdoctoral protein purification; and the proven ability to produce highly purified proteins at the 100mg or greater scale. (Job#S0923-SPB)

#### PHARMACOLOGY SCIENTIST

You will assist with the discovery and evaluation of new protease inhibitors for treatment of inflammatory diseases; conduct in vitro and in vivo studies to assess efficacy and toxicity of test compounds; and coordinate with contract labs, government agencies, and associate inflammation program scientists. Ideal candidates will have a Ph.D., in pharmacology, biochemistry, or related discipline; 4-5 years' pharmaceutical research experience; the proven ability to identify and develop animal models; and basic surgical skills for minor animal surgery. Expertise in the areas of inflammation, cardiovascular and pathology preferred. (Job#S0923-P)

#### MOLECULAR BIOLOGY SCIENTIST

You will study & evaluate the structural/functional relationships of cytokine receptors and their ligands. Selected candidate will possess a Ph.D. in molecular biology or related discipline; 2+ years' postdoctoral research experience; proficiency in rDNA techniques, including cloning, in vitro mutagenesis, and DNA sequencing; and experience with expression of recombinant proteins in E.coli & mammalian systems, protein characterization, and receptor binding studies. Knowledge of phage display technology a plus. (Job#S0923-MB)

Arris offers generous salaries & benefits, the potential for career advancement, and the opportunity to make significant scientific contributions. For consideration, please send resume & cover letter to:

Arris Pharmaceutical Corp. Human Resources Dept., Attn: Job# 385 Oyster Point Blvd., Suite 3 South San Francisco, CA 94080.



Equal Opportunity Employer

# knock, knock.

(That's opportunity knocking. Hint: Turn to page 1904.)

Open the door to new possibilities by turning to the Careers special section in this issue of SCIENCE. Inside, you'll find information about exciting career opportunities at academic and research institutions as well as pharmaceutical and biotechnology companies. The key to a rewarding future is recognizing when opportunity knocks. SCIENCE gives you the chance to review available scientific positions from all around the world in our weekly recruitment advertising section and in our special sections, such as *Careers*. Unlock your career potential by reading SCIENCE.

Sometimes opportunity knocks just once.



#### FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics at Texas A&M University seeks applications for several tenure-track positions. These are 12 month appointments; while these positions are targeted at the assistant professor level, more senior applicants will be considered. Applicants with demonstrated productivity and evidence of potential for independent research in any area of biochemistry will be considered, although those with research interests in physical approaches to the study of biological macromolecules are especially encouraged to apply. In addition to research, participation in the Department's undergraduate and graduate teaching programs will be expected. A Ph.D. in biochemistry or a related field plus appropriate postdoctoral experience is required.

The Department of Biochemistry and Biophysics has 34 full time faculty and approximately 80 graduate students and 500 undergraduate majors. The Department is housed in a modern, spacious, and well-equipped research facility. The research interests of the faculty encompass broad areas of contemporary biochemistry and molecular biology.

Completed applications should include: a curriculum vitae, a short description of research interests, two copies of two reprints, and three letters of recommendation. All materials should be sent to: Dr. Paul Fitzpatrick, Faculty Search Committee Chair, Deparment of Biochemistry and Biophysics, College Station, TX 77843-2128. Review of applications will begin Oct. 15, 1994.

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

# SENIOR SCIENTIST

Inhalation Toxicology/ Vaccine Evaluation

For 65 years, Battelle staff have carried out vital, challenging, and rewarding research in a variety of disciplines. Today, Battelle's **Health Division** is seeking an experienced seniorlevel scientist to design, lead, and perform research on aerosolized toxins and experimental vaccines in a new BL-3 laboratory. The candidate selected will help equip and staff this new facility, and will be responsible for training staff, writing SOPs, preparing proto-cols (GLP), leading research, and reporting results. The position requires an **advanced** degree in biology, toxicology, pharmacol-ogy, veterinary medicine, or aerosol physi-ology; prior experience conducting related research; and eligibility for a security clear-ance. Desired experience includes: designing protocols for FDA studies, conducting studies under GLP, evallating toxoids or vaccines for safety or efficacy, and identifying and quantifying toxins. This position is located at Battelle's West Jefferson research facility, outside Columbus, Ohio. Battelle offers competitive salaries, comprehensive benefits, and opportunities for professional challenge and devel-opment. Interested candidates should send cover letter and resume to: Christopher Dunford, Employment Department 101, Battelle, 505 King Avenue, Columbus, OH 43201-2693. Battelle is an Affirmative Action/ Equal Opportunity Employer M/F/D/V.

Putting Technology To Work

NEW PINNACLES IN DRUG DISCOVERY

**PARNASSUS PHARMACEUTICALS** is an innovative San Francisco Bay Area biopharmaceutical company engaged in discovery, development and commercialization of small molecule therapeutic drugs. Our uniquely integrated expertise in the areas of molecular and cell biology, biochemical pharmacology, combinatorial biosynthesis, and chemistry-based drug design provides a solid foundation for the creation of novel pharmaceuticals targeting viral, metabolic and immune system diseases.

We have assembled a core group of scientists led by a senior management team whose proven drug discovery and development expertise will help advance our mission of developing new pharmaceuticals offering significant therapeutic value. We now seek additional talented scientists at all levels (B.S./M.S. and Ph.D.) to bring forth their best ideas and contribute their creative spirit as we strive for new pinnacles of achievement in the following areas.

#### MOLECULAR BIOLOGY, CELL GENETICS

Candidates will need skills in cDNA and/or genomic cloning, plasmid/cosmid construction, PCR, and gene expression in procaryotic and eucaryotic hosts. In addition, candidates experienced with genetic manipulation of gram-positive bacteria (actinomycetes) are particularly desired.

#### PROTEIN BIOCHEMISTRY

Focusing on the purification and biophysical characterization of protein-ligand interactions for soluble and membrane-bound receptor targets, you will need to be skilled in modern methods of protein isolation/characterization.

#### **BIOCHEMICAL PHARMACOLOGY / HIGH-THROUGHPUT SCREENING**

You will design, implement, and validate ligand binding and cell-based assay protocols amenable to high-throughput drug screening. Experience with membrane receptor assay technology, organization of peptide, chemical and natural product libraries, and automation for high-throughput screening is desired.

#### **PEPTIDE SYNTHESIS**

You will use modern methodologies for solid phase peptide synthesis to create novel peptide-diversity and peptide-insert libraries for multiple drug targets.

#### **BIO-ORGANIC & SYNTHETIC & MEDICINAL CHEMISTRY**

Qualified candidates will focus on ligand design, multistep and combinatorial organic synthesis, chromatographic purification and spectroscopic characterization of organic molecules to develop receptor agonists/antagonists.

Parnassus offers an entrepreneurial environment with opportunity for personal and professional growth, combined with a competitive compensation package, including equity participation. If you are excited by our mission and share our vision, please accept our invitation to forward your resume, noting your area of interest, to: Parnassus Pharmaceuticals, 1501 Harbor Bay Parkway, Alameda, CA 94502, FAX 510/748-7110. Equal Opportunity Employer.

> PARNASSUS Technological Excellence. Proven Experience.

### **HENRY M. JACKSON FOUNDATION**

#### POST DOCTORAL POSITION, RESEARCH ASSISTANT

The Henry M. Jackson Foundation is recruiting for a Research Assistant in the field of cellular immunology and HIV infection. The position involves study of functional deficits of the cellular immune system acquired during the course of HIV infection and the development of tests for these deficits. Applicants should have a Ph.D. in immunology, molecular biology, virology, biochemistry, cell biology, or related discipline. Under certain circumstances, a DVM or MD degree with relevant research interest or experience may substitute for a Ph.D. Knowledge of clinical, virological, and immunological parameters of HIV infection, with an emphasis on events occurring in the natural history of HIV are sought. Experience with laboratory research projects and data management/analysis is essential. The position may involve supervision of one or more technical personnel and would be based at Wilford Hall Medical Center, Lackland AFB, San Antonio, Texas.

#### **BIOSTATISTICIAN I**

A biostatistician is sought to work as part of a multidisciplinary physician scientist team in the design and interpretation of studies on the Natural History of HIV Disease Progression. The ideal candidate will hold a Ph.D. in mathematics, biostatistics or a closely related field and have a minimum of 3 years experience. The candidate must be proficient at a full range of basic statistical analyses, as well as with survival and risk analysis, time series modeling and forecasting, power calculations and experimental design. Ability to interact with computer scientists is essential. Familiarity with the clinical, immunologic and virologic features of HIV disease is highly desirable.

Qualified candidates for these positions should send a copy of their Curriculum Vitae including a list of references to:

The Henry M. Jackson Foundation PO Box 700014 San Antonio, Texas 78270 1-800-468-6961 (210) 675-5022 FAX (210) 675-0173

AA/EOE

#### FACULTE DES SCIENCES AGRONOMIQUES UNIVERSITE CATHOLIQUE DE LOUVAIN

At the College of Agriculture of the Catholic University of Louvain, one full time faculty position has become available:

Field : Molecular biology of microorganisms

Aim : to develop a research group devoted to molecular biology applied to fungi and bacteria and to supervise the mycotheque of the university (23 000 strains) with the use and development of molecular biology techniques applied to taxonomy. Teaching will be in the areas of microbiology (micology) and molecular biology.

Special qualifications : publications in molecular biology applied to microorganisms; a knowledge of fungal taxonomy will be an asset; otherwise, it will have to be acquired.

Duties will include lectures and practical tuition, in French, to undergraduate students, and supervision of postgraduate students. Candidates should have a Ph.D. in the field, postdoctoral experience and internationally recognized publications. They should be well recognized scientists with a broad knowledge of the various aspects of the field. They should have capability for teaching and for research group leadership. The recruitment level will depend upon experience and qualifications.

Start date will be October 1, 1995.

Applications should be sent before November 15, 1994. Inquiries may be directed to :

Professeur E. Persoons, Doyen de la faculté des Sciences agronomiques de l'Université catholique de Louvain, place Croix du Sud 2, bte 1 at 1348 Louvain-la-Neuve, Belgium. Tel.: 32/10/47.37.19, Fax: 32/10/47.47.45,

e-mail:Persoons@sagr.ucl.ac.be

# Alpha-Beta's Fuel For Growth<sup>on</sup> of Is A Six Carbon Sugar Polymer

Alpha-Beta Technology is the pioneer in the discovery of carbohydrate-based therapeutics. We are developing a range of products that function to prevent and treat infections, lower cholesterol, and promote wound healing and hematopoiesis. As a member of our staff, you'll encounter an exciting R&D environment that encourages outside collaborations and offers a high degree of independence.

#### VICE PRESIDENT, RESEARCH & DEVELOPMENT BIOPHARMACEUTICAL

This is a unique opportunity to assume full responsibility for product development activities, providing direction and oversight. Specifically, you will be responsible for the day-to-day operations and management of Discovery Research, Cell Biology, Chemistry, Molecular Biology, Pharmacology, and Toxicology functions. You will also be the liaison and focal point for R&D and act as the technology bridge to Manufacturing, Clinical Affairs, Regulatory Affairs and Project Planning. Candidates must have a Ph.D. and strong educational credentials with a concentration in Chemistry, Biochemistry, Pharmacology, Cell Biology, Microbiology, and/or related fields. At least 10 years of relevant biopharmaceutical industry and functional experience demonstrating superior professional accomplishment as a research manager/director is imperative. Expertise in regulatory submission, analytical technology, product feasibility studies, pharmacology/toxicology, research/product development is required. Experience attracting and integrating the best research talent into an expanding biopharmaceutical environment is essential. Strong managerial capabilities with emphasis on matrix management in the areas of antiinfectives, inflammation, and wound healing is strongly preferred.

Alpha-Beta Technology offers excellent compensation and comprehensive benefits. Send your resume to Alpha-Beta Technology, Human Resources, Dept SM, One Innovation Drive, Worcester, Massachusetts 01605.

An equal opportunity employer.



# Imagine The Possibilities

At Berlex, we've built our reputation on FDA-approved product successes and a proven track record in the pharmaceutical industry. To meet the challenges before us, we're seeking a Molecular Biologist with knowledge of vascular biology/ pathobiology to contribute to our Cardiovascular Department. If you've been looking to join forces with an internationally recognized pharmaceutical team, imagine building your career with Berlex in the beautiful San Francisco Bay Area.

#### SENIOR SCIENTIST/SCIENTIST Molecular Biologist - Cardiovascular Dept.

As a member of our multidisciplinary team of scientists investigating the molecular basis of endothelial cell activation/dystunction, you will focus on the identification of novel molecular mechanisms associated with vascular diseases. Along with a Ph.D. (or equivalent) and at least 3 years of post-doctoral work, your background should demonstrate skill in the identification of physiologically regulated genes and a knowledge of transcription and its control in cell/tissue based assays. Experience in the areas of cDNA library screening, differential gene expression, tissue culture and transcription assays is also desired. Prior experience with atherosclerosis or angiogenesis would be a plus.

As a US subsidiary of an international Fortune 500 company, Berlex is proud to offer competitive salaries and a generous benefits package. To apply, send your C.V./ resume to: BERLEX, HUMAN RESOURCES EMPLOYMENT, 15049 SAN PABLO AVE., DEPT. B94-028, RICHMOND, CA 94804-0099. EOE. Principals only.



# **CELL REGULATION** Cellular/Molecular Biologist

Upjohn Laboratories Discovery Research is seeking an associate scientist to utilize molecular approaches in the study of cell regulation in disease and contribute actively to drug discovery projects.

Qualified candidates must have a B.S. or M.S. degree and at least two years of documented achievement in cellular and molecular biology, biochemistry, or a related discipline. Applicants with modern molecular experience in the investigation of cell proliferation, cell signaling, cell-cell interactions, or other aspects of cellular regulation related to growth control are especially encouraged to apply.

In addition to an excellent salary and benefits package, Upjohn Laboratories offers a stimulating, multidisciplinary research environment at our modern facilities located in Kalamazoo, a southwestern Michigan community located midway between Detroit and Chicago. This region provides an outstanding mix of cultural and recreational pursuits and a reasonable housing cost market. For confidential consideration please send your C.V. to: The Upjohn Company, Corporate Recruiting, Ad# 231, 7000 Portage Road, Kalamazoo, Michigan 49001. We are an Equal Opportunity employer with a commitment to workplace diversity.

Upjohn Advancing Science... Enhancing Life

# ANALYTICAL CHEMISTRY

Athena Neurosciences, Inc. is a growing biotechnology-based company committed to the discovery and development of new products to diagnose and treat diseases of the central nervous system. We have excellent opportunities for the following positions at our South San Francisco facility:

# **GROUP LEADER**

-Analytical Chemistry & Quality Control-

As a group leader in Analytical Chemistry and Quality Control you will develop and validate assays for Athena's small molecule products, direct and mentor associates in performing quality control and analytical assays. You will interact with R&D to transfer assays from research to development & manufacturing use. The skills required for this position include: a wide variety of chromatographic skills including GC & HPLC, spectroscopy skills such as UV, IR, MS and NMR, knowledge of cGxP and experience in assay validation and regulatory submissions. We expect you to have a Ph.D. degree in analytical chemistry or a related field and at least 6 years' industrial experience in a pharmaceutical environment or the equivalent. (JOB# S-0923-GL)

# **RESEARCH ASSOCIATE**

-Analytical Chemistry & Quality Control-

As a Research Associate in Analytical Chemistry and Quality Control you will perform quality control and analytical assays for Athena's small molecule products. You will implement the transfer of assays from research to development & manufacturing use. The skills required for this position include a wide variety of chromatographic skills including GC & HPLC; spectroscopy skills such as UV, IR, MS, and NMR would be helpful. Knowledge and experience in CGxP is important. We expect you to have a Bachelors degree in chemistry or a related field and at least 4 years' industrial experience in a pharmaceutical environment or the equivalent. (JOB# S-0923-RA)

# **SCIENTIST**

-BioAnalytical Chemistry & Quality Control-

The successful candidate will develop assays for Athena's biological molecule products. You will interact with R&D to transfer assays from research to development & manufacturing. You will both perform quality control assays and review data from associates and contractors. The skills required for this position include a wide variety of separation science skills including all types of chromatography and electrophoresis. Significant experience in the development of immunological assays is important. Spectroscopy skills such as UV, MS, and NMR will be very useful. Knowledge of cGxP and experience in assay validation will be a major factor in a hiring decision. Experience in protein chemistry is a necessity. We expect you to have a Ph.D. degree in bioanalytical chemistry or a related field and at least 6 years' industrial experience in a pharmaceutical environment or the equivalent. (JOB# S-0923-SC)

# MANAGER

-Quality Assurance-

As a Manager of Quality Assurance you will be responsible for functions including release of commercial products; SOP administration and document control; materials release and disposition, operational CGXP compliance and training; supplier quality and vendor certification and product complaints. Knowledge required for this position includes analytical chemistry, CGXPs, vendor qualification, materials testing and QA/QC principles. A Bachelors degree is required and a Ph.D preferred in Biochemistry, Microbiology, Pharmaceuticals or a related field, and at least 7 years' industrial experience in a pharmaceutical environment or the equivalent. (Job#S-0923-MCA)

In addition to competitive salaries and benefits, Athena offers an innovative and exciting professional, scientific environment. To apply, Please send resume to: Athena Neurosciences, Human Resources, Attn: Job#, 800 Gateway Blvd., South San Francisco, CA 94080. EOE.



# Scientific Opportunities at Bio-Rad Laboratories

As a pioneer in the clinical testing of thyroid, B-12 and folates more than a decade ago, Bio-Rad Laboratories is helping to solve today's clinical laboratory problems with innovative tests for AIDS, diabetes, hemoglobin variants and drugs of abuse.

**Research Scientist:** Our continued growth has created the need for creative scientists with experience in the commercial development of non-isotopic immunoassays. Successful candidates will have a BS, MS or PhD in the Life Sciences or equivalent discipline and demonstrated success in the development of immunochemical assays.

**Assay Development Scientist:** You will help develop new assays for manufacturing on our new automated blood chemistry analyzer. This position requires a BS/MS in Life Science with 3+ years experience in assay development. FDA, GMP and ISO9000 experience in a medical device environment is considered a real plus.

**Process Improvement Scientist:** You will help continuously improve our Western Blot manufacturing process. This position requires a BS/MS in Life Science with 3+ years experience in Western Blot manufacturing and process control. FDA, GMP and ISO9000 experience in a medical device environment is considered a real plus.

To apply, please send your resume to: Bio-Rad Laboratories, 4000 Alfred Nobel Dr., Dept. 445, Hercules, CA 94547. *An Equal Opportunity Employer, MFDV.* 



# **CELL BIOLOGY**

The Department of Cell Biology in the Schools of Medicine and Dentistry at UAB invites applications for two full-time, tenure-track positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. Competitive applicants will have a Ph.D. or equivalent degree, postdoctoral experience, and clear evidence of research productivity, creativity, and independence. As the Department is committed to building an outstanding faculty with research expertise in cell and developmental biology, applicants providing evidence of employing comprehensive approaches to the investigation of fundamental problems in these areas will be seriously considered. The successful candidate will be expected to develop a strong, extramurally funded research program, to participate in the training of Ph.D. candidates, and to contribute to departmental responsibilities associated with graduate and professional student teaching. UAB is ranked in the top 20 institutions in NIH-funded research and offers an unusually interactive environment with state-of-the-art research facilities. The presence of multidisciplinary Centers and an interdepartmental graduate program in Cell and Molecular Biology fosters collaboration among the basic science disciplines and between basic science and clinical faculty. Salaries and start-up funds are competitive and commensurate with qualifications and experience. Applications, including the names of three references, a current curriculum vitae, and a summary of past accomplishments and future research plans should be sent by November 1, 1994 to:

Dr. Vytas A. Bankaitis, Department of Cell Biology, The University of Alabama at Birmingham, Birmingham, AL 35294-0005.

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

ASSISTANT/ASSOCIATE PROFESSOR: FOUR Tenure-track positions beginning Fall 1995 in: MARINE MICROBIOLOGY: Primary teaching responsibilities in marine microbiology and bacterial physiology. Preference given to applicants with research expertise in use of molecular techniques for studying marine microbiological processes in the coastal environment. WETLANDS PLANT ECOLOGY: Primary teaching responsibilities in plant ecology and plant biology. Preference given to applicants with research expertise in wetland and estuarine plant ecology who can collaborate with our terrestrial and marine ecologists. POPU-LATION GENETICS: Primary teaching responsibilities in general genetics and population genetics. Preference given to applicants with field and laboratory research expertise in population/evolutionary genetics using-molecular techniques. COMPARATIVE ANIMAL PHYSIOLOGY: Primary teaching responsibilities in system-level comparative physiology. Preference given to applicants with research expertise in physiology of marine organisms at the system, cellular or molecular leveli.

Candidates must have a strong commitment to teaching at the undergraduate and M.S. levels, participate in introductory courses in an ethnically and culturally diverse campus community. Applicants will be expected to show potential for teaching in the required subject area(s) and for developing and sustaining an independent, externally funded, research program involving students. Research start-up funds available; may be supplemented with funds from the Howard Hughes Medical Institute. Applicants with a Ph.D., postdoctoral experience and a record of published research should submit a letter of application, curriculum vitae, brief statement of research and teaching interests, and 3 letters of recommendation to: Dr. D.L. Soltz, Chair, Dept. of Biological Sciences, California State University, Long Beach, CA 90840-3702. FAX: (310) 985-2315. Deadline November 1, 1994 or until filled. *California State University, Long Beach is an Equal Opportunity/ Affirmative Action/Title IX Employer.*  Tenure/Track Faculty Position University of Minnesota Medical School Applications are invited for the position of Assistant Professor (Tenure-Track) in the Department of Pharmacology, Medical School. Successful candidates are expected to establish an outstanding independent research program, in addition to teaching, in the area of molecular pharmacology. Requirements include a Ph.D. in Biochemistry, Cell Biology, Molecular Biology, Pharmacology or related field, or an M.D., and 2 years of postdoctoral research background and experience using recombinant DNA technology for studying pharmacological problems and/or molecular biological problems are preferred. Applicants for Assistant Professor must have demonstrated involvement in quality research published in peer reviewed journals.

Appointment as Associate Professor (tenured) or Full Professor (tenured) may be considered for applicants who meet the qualifications established by the University of Minnesota. <u>Associate Professor</u> <u>qualifications</u>: Professional distinction in published research and demonstrated effectiveness in teaching and advising. <u>Full Professor qualifications</u>: National reputation intresearch and evidence of leadership in candidate's professional field. Evidence of consistently attracting extramural funding for research is required for appointment at the level of Associate or Full Professor.

Applicants should indicate level of position they are applying for and send a curriculum vitae, significant reprints, a statement of research plans, and three names for reference purposes to: Dr. S. A. Thayer, Chairperson of Search Committee, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota 55455. Deadline for receipt of applications is October 14, 1994. Approximate start date January 1, 1995. The University of Minnesota is an equal opportunity educator and employer.

#### POSTDOCTORAL RESEARCH ASSOCIATE SUSTAINABLE BIOSPHERE PROJECT SCIENTIFIC COMMITTEE ON PROBLEMS OF THE ENVIRONMENT

Applications are invited for a postdoctoral position with the Sustainable Biosphere Project, an international and multidisciplinary project to recommend practices and policies for sustainable natural resource use. The Research Associate will help initiate the Amazon Basin Case Study, including identification of participants and conduct of workshops. Candidates should have a Ph.D. degree in ecology or other relevant field and have conducted research in a topic associated with sustainability of natural resources. Preference will be given to those who have international experience and are bilingual (English and Spanish or Portuguese). Appointment is anticipated to be available October 1994 and will be for one year with the possibility of reappointment at the discretion of the Principal Investigator. The SBP Project Office is located at Oregon State University. Send a letter, resume, and the names of four references to Dr. Jane Lubchenco, Department of Zoology, Oregon State University, Cordley Hall 3029, Corvallis, OR 97331-2914 USA. For additional information, contact Karla Alderman at 503-737-5363 or email aldermak@bcc.orst.edu. OSU is an Affirmative Action/Equal Opportunity Employer.

#### **OPPORTUNITIES IN ELECTROPHYSIOLOGY. BEHAVIORAL BIOLOGY AND MOLECULAR BIOLOGY**

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

Electrophysiology Postdoctoral or Senior Scientist position: The position involves developing and Postocctoral or Senior Scientist position: The position involves developing and implementing assays for evaluation of drug effects on neurotransmitter systems using the following techniques: two-electrode voltage-clamp analysis in Xenopus occytes, patch-clamp recording in cultured cells, and single-electrode voltage-clamp or patch-clamp analysis in brain slices. Applicants should possess a Ph.D. or equivalent degree in a relevant discipline with expertise in patch-clamp analysis. Please respond to Department EP.

Behavioral Biology Postdoctoral Fellow: The successful candidate will possess a Ph.D. in Psychology, Behavioral Neuroscience, or related field and have expertise in behavioral method-ology, psychopharmacology techniques, and experimental design and analysis. Experience with animal models (rodents) of human CNS disorders and a working knowledge of the GABA neurotransmitter system, as well as anxiety and sleep disorders, are preferred. Excellent communication skills are required. Please re-spond to Department BB.

Research Assistant/Associate: The qualified candidate should have a B.S. or M.S. in Experimental Psychology or related field. Knowledge of experimental design and statistics, a basic understanding of nervous system functioning, and experience with laboratory animals (rodents) are preferred. Knowledge of psychopharmacology and drug injection techniques is highly desirable. Please respond to Department BB.

Molecular Biology Senior Scientist: Ph.D. in Neuroscience or related discipline with emphasis on Senior Scientus: Ph.D. in Neuroscience or related discipline with emphasis on molecular biological aspects and 2-3 years of postdoctoral experience. Experience in the isolation and expression of neuronal cell surface receptors and effectors required. Experience in expression cloning in mammalian cells is highly desirable. Excellent communication skills required. Please respond to Department MB.

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

Interested candidates should send resumes with cover letter to the appropriate departments listed above, Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT 06405.

Neurogen Corporation

11/1/

### TOMORROW'S **TECHNOLOGY TODAY** 6 As we continue to grow, VIAGENE, INC. has the following opportunities:

GENE TRANSFER RESEARCH

#### · Sr. Cell Biologist-To lead the Cell Biology Group

• Sr. Cancer Cell Biologist/Immunologist-To lead the Cancer Therapy Program

Requires Ph.D's with 8+ years' experience.

· Cancer Immunologist-Animal Cancer Immunotherapeutic Studies

Requires Ph.D's with 2+ years' experience

#### **PRODUCT DEVELOPMENT/** MANUFACTURING

#### Assoc. Director Product Development & Scale-up

#### Assoc. Director Manufacturing

Above positions require Ph.D's with 8+ years' biotechnology industry experience; management experience in the development/scale-up/manufacture of biopharmaceutical products in a cGMP environment.

#### Process Development Scientists

Ph.D's with 4-6 years' experience in the design and scale-up of biopharmaceutical processes to transition research leads into full scale manufacturing in a cGMP environment.

Send resume to: VIAGENE, INC., Human Resources, (GTR/PDM), 11055 Roselle St., San Diego, CA 92121. EOE.





#### NATIONAL UNIVERSITY of SINGAPORE LEE KUAN YEW **POSTDOCTORAL FELLOWSHIP**

Applications are invited for the Lee Kuan Yew Postdoctoral Fellowship from candidates with excellent academic records and proven research ability, and who had obtained their Ph.D. degrees in the last few years.

The Fellowship will be tenable for 3 years in the first instance, with possible extension for 2 further years. It will be held concurrently with the candidate's appointment as a research staff member in one of the following Faculties/Institutes:

> **Faculty of Engineering** Faculty of Medicine **Faculty of Science Institute of Systems Science** Institute of Molecular and Cell Biology Institute of Microelectronics

Under the Fellowship, a tax-free stipend of US\$1,500 per month will be provided. This will be in addition to the following terms of appointment normally provided to a research staff member:

-Gross annual salary ranges from S\$49,700 to S\$71,400. (The commencing salary will depend on the appointee's qualifications and experience.) In addition, a 13th month allowance and an Annual Variable Component are payable under the flexible wage system applicable to staff on normal contracts.

-Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance, subsidised housing or a housing allowance, education allowance for up to three children subject to a maximum of S\$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

(US\$1.00 = S\$1.50 approximately)

All academic staff will be given a networked microcomputer with access to an IBM mainframe computer, UNIX hosts, a supercomputer, departmental laser printers, a wide spectrum of software, on-line library catalogue, CD-ROM databases, Teleview, INtv, Bitnet and Internet.

Applications for the Fellowship should be sent to: **The Director** 

**Personnel Department National University of Singapore 10 Kent Ridge Crescent** Singapore 0511

#### or through INTERNET to:

PERLEESK@LEONIS.NUS.SG, or Telefax: (65) 7783948. (Please indicate your area(s) of specialisation to facilitate the processing of your application.)

Closing date: October 28, 1994

# **ICCDR-2**

Second International Conference on Carbon Dioxide Removal

## KYOTO, JAPAN

### Mon. 24 - Thu. 27 October 1994

#### Sponsored by:

Research Institute of Innovative Technology for the Earth (RITE)

New Energy and Industrial Technology Development Organization (NEDO)

Date: October 24 (Mon.) - 27 (Thu.), 1994

Venue: Keihanna Interaction Plaza and RITE (Southern Part of Kyoto)

### Schedule (tentative):

Date	Morning	Afternoon			Evening			
October 24	Registration and Welcome Meeting at Kyoto Grand Hotel							
(Mon)	(18:00-20:30)							
October 25			Session 1		Session 4			
(Tue)	Plenary Session 1	Lunch		Session 3			Reception	
				Session 5	sion 5		-	
October 26 (Wed)	Session 2		Session 2	Poster	Poster Session Oral Poster C		Conference Dinner	
(1104)	Session 3	Lunch	Session 4					
	Session 6		Session 6	preview	Presenta- tion	L		
October 27	Session 2	Plenary						
(Thu)	Session 4	Session	Technical Tou	ır				
	Session 6	] п						

### Invited Speakers (tentative):

Prelimina	ry Lectures	Session 4	Fixation / Utilization of Carbon Dioxide (Biological Method)	
	Y. Kaya (Univ. of Tokyo, JAPAN)		M.M. Saier, Jr. (Univ. of California, San Diego, USA)	
	W.C. Turkenburg (Utrecht Univ., THE NETHERLANDS)		K.G. Zeiler (National Renewable Energy Lab., USA)	
	to be confirmed (Representative from MITI, JAPAN)		H. Michiki (RITE, JAPAN)	
Session 1	Carbon Dioxide Separtation and Recovery	Session 5	Technologies for Reduction of Carbon Dioxide	
	O. Erga (Trondheim Univ., NORWAY)		P. Riemer (The IEA Greenhouse Gas R&D Program, UK)	
	A. Chakma (Univ. of Calgary, CANADA)		M. Steinberg (Brookhaven National Laboratory, USA)	
Session 2	Carbon Dioxide Storage	Session 6	System for Countermeasures of Carbon Dioxide	
	E.E. Adams (MIT, USA)		I.C. Webster (The IEA Greenhouse Gas R&D Program, UK)	
	P.M. Haugan (NERSC, NORWAY)		N. Nakicenovic (IIASA, AUSTRIA)	
	L.G.H. van der Meer (TNO, THE NETHERLANDS)		H. Komiyama (Univ. of Tokyo, JAPAN)	
	Y. Shindo (NIMC, AIST, MITI, JAPAN)		Y. Yanagisawa (RITE, JAPAN)	
	S. Tanaka (Univ. of Tokyo, JAPAN)			
Session 3	Fixation / Utilization of Carbon Dioxide (Chemical Method)		Chairperson of the Organizing Committee:	
	M. Aresta (Bari Univ., ITALY) K.W. Lee (KRICT. KOR	EA)	Jiro Kondo (RITE Director General)	
	S. Masuda (RITE, JAPAN) A. Fujishima (Univ. of Tokyo, JAPAN)		Official Language: English	
	Y. Souma (Osaka National Research Institute, JAPAN)		Registration Fee: 35,000 yen (Students: 12,000 ye n)	
For further	information, please contact:			
	Registration Secretariat			
	roup Corp.			
	Pldg 2.7.2 Neksten Kite ku Oseks 521			

5F, Builco Bldg., 3-7-3, Nakatsu, Kita-ku, Osaka 531 JAPAN Phone:+81-6-376-2963 Fax:+81-6-372-6127





The Department of Biochemistry, Midwestern University, invites applications for a new, tenure-track Faculty position at the rank of Assistant Professor. Applicants must hold a Ph.D. degree in Biochemistry (or equivalent), have completed a postdoctoral research fellowship, and have demonstrated both ability and interest in teaching Biochemistry to health career stu-dents. The successful candidate will teach in several team-taught courses (Biochemistry, Nutrition, Genetics) for health career students (medical, pharmacy and allied health), and will develop an independent research program in Biochemistry. Interested applicants should send a cover letter summarizing their teaching experience and current research interest, and future plans; curriculum vitae; representative publications; and the names of three references. Candidates invited for interviews must also submit a teaching portfolio.

Interested applicants should send the above items to: Sandra Lee, Ph.D., Chairman, Biochemistry Department.

MIDWESTERN UNIVERSITY 555 31st Street Downers Grove, IL 60515

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Faculty Positions Molecular, Cell and Developmental Biology

Department of Biochemistry and Molecular Biology University of Texas M.D. Anderson Cancer Center

Applications are invited for tenure track positions at the Assistant Professor level. Exceptional applicants may be considered for an Associate Professor position. The Department is one of several basic science departments at MDACC, which have limited teaching responsibilities but maintain strong predoctoral and postdoctoral training programs within focused research areas. The present focus of the Department is on molecular aspects of cell and developmental biology, emphasizing both vertebrate and invertebrate systems. Current strengths include transcriptional regulation of development and disease, developmental genetics, chromatin structure, myogenesis, glycobiology, cellular interactions, membrane-cytoskeleton interactions, and intracellular signalling. Applications are encour-aged from individuals who will bring diverse experimental systems to complement these and related areas within the overall scope of the Department. The MDACC is located in the Texas Medical Center, which includes Baylor College of Medicine and The University of Texas Health Science Center, offering an unusually rich scientific and training atmosphere. Send a curriculum vitae, a description of research interests, and the names, addresses and telephone numbers of at least three references by November 15, 1994 to:

Barry D. Shur, Ph.D., Chair, Search Committee, Box 117, Department of Biochemistry and Molecular Biology, M.D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77030 FAX: 713-790-0329

The University of Texas M. D. Anderson Cancer Center is an Equal Opportunity/Affirmative Action Employer.

#### SENIOR SCIENTIST OPPORTUNITY (1) SCIENTIST/SENIOR SCIENTIST (1) POSTDOCTORAL ASSOCIATE OPPORTUNITY (1)

Ciba's Agricultural Biotechnology Research Unit, in Research Triangle Park, NC, is world renowned for innovative research and development which promotes more bountiful and resilient crops.

SENIOR SCIENTIST - Dept. #9401. You are invited to become a key member of our Seeds Disease Control group. You will lead significant research aimed at the development of intellectual property and disease resistant plant products. You will be expected to make significant contributions to this scientific field via patent applications, publications, presentations and collaborations while exercising good business judgement and strong written, verbal and creative skills. You will be a member of a project team working at the bench and directing the work of other Scientists, actively promoting teamwork, efficiency and morale. Some international travel will be required. Ph.D., and two years of related experience required.

creative skills. You will be a member of a project team working at the bench and directing the work of other Scientists, actively promoting teamwork, efficiency and morale. Some international travel will be required. Ph.D., and two years of related experience required. POSTDOCTORAL ASSOCIATE - Dept. #9402. We are seeking a Ph.D., in the area of Cell Biology, Molecular Biology or Biochemistry, for our Insect Control group. The successful candidate must have a good working knowledge of biochemistry and cell physiology. General knowledge of genetics and molecular biology is also required. The successful candidate will develop assays to detect endotoxin binding to midgut epithelieal cells of various insects and assays to measure the pore forming ability of endotoxins in insect midgut membranes. The individual will also participate in an ongoing effort to clone insect midgut receptors. SCIENTIST/SENIOR SCIENTIST - Dept. #9403. Join our Seed Hybridization group

SCIENTIST/SENIOR SCIENTIST - Dept. #9403. Join our Seed Hybridization group and conduct research in gene regulatory systems in plants, with the ultimate goal of controlling fertility in plants. A Ph.D. and 2-5 years experience in molecular biology are required. The successful candidate will bring innovation, critical thinking and organizational skills to the position. Additionally, these skills will be used to solve scientific problems of commercial and academic interest. The ability to work within and make contributions to a project team is critical. Some international travel is required.

We offer competitive salaries and generous benefits package. Interested candidates should forward a curriculum vitae, transcripts and three (3) letters of reference to: Ms. Y. McCoy, Human Resources, Ciba Biotechnology Research Unit, P.O. Box 12257, Research Triangle Park, NC 27709-2257. Fax number: (919) 541-8585.

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# **OPPORTUNITIES IN BIOTECHNOLOGY**

United States Surgical Corporation, one of the world's largest manufacturers of surgical devices, is expanding its research and development effort in Biotechnology. You can be part of a dynamic team of scientists working on a new generation of wound healing products for soft and hard tissue. Our new state-of-the-art research facility is located in North Haven, CT, just 10 minutes from Yale University.

### BIOCHEMISTRY STAFF SCIENTIST & SENIOR STAFF SCIENTIST

Two positions are available for creative, and motivated scientists. Requires a Ph.D. in Biochemistry, Molecular Biology or related field. A strong background in protein chemistry recombinant protein production and purification is desirable. Experience in cell biology, tissue culture, growth factors and extracellular matrix proteins a plus. Level of the position will be commensurate with experience.

#### **BIOCHEMISTRY RESEARCH TECHNICIAN**

Requires a BS or MS in Biochemistry, Molecular Biology or related field. Versatility with protein, DNA and RNA manipulations is essential. Knowledge of large scale fermentation a plus.

We offer a competitive salary and benefits package. Interested individuals should send their curriculum vitae, including salary history and requirements, to: Mr. Michael Brown, Manager of Employment, United States Surgical Corporation, 195 McDermott Road, North Haven, CT 06473. An Equal Opportunity Employer M/F/D/V.

United States Surgical Corporation

# DEPARTMENT OF THE ARMY OPPORTUNITIES

Become a member of the Army's research and development community involved in basic and applied scientific research and advanced technological development.

Listed below are career opportunities at various Army laboratories and research, development and engineering centers for senior research scientists and engineers.

Senior Research Scientist (Environmental), Vicksburg, Mississippi (DA-ST-01-94) Senior Research Scientist (Burn Infections),

Senior Research Scientist (Burn Infections) San Antonio, Texas (DA-ST-02-94)

Senior Research Scientist (Medical Chemical Defense), Aberdeen, Maryland (DA-ST-03-94)

Senior Research Scientist (Biotechnology), Natick, Massachusetts (DA-ST-04-94)

Senior Research Scientist (Low Observable Technology), Warren, Michigan

(DA-ST-05-94) Senior Research Scientist (Theoretical Physics), Research Triangle Park, North Carolina (DA-ST-06-94)

Senior Research Engineer (Aeromechanics), Moffett Field, California (DA-ST-07-94)

Senior Research Scientist (Sensors), Adelphi, Maryland (DA-ST-08-94)

Senior Research Engineer (Information Science & Technology), Adelphi, Maryland (DA-ST-09-94)

Senior Research Éngineer (Ceramic Materials), Watertown, Massachusetts (DA-ST-10-94)

Senior Research Scientist (Electromagnetics), Fort Monmouth, New Jersey (DA-ST-11-94)

Senior Research Scientist (Soldier Performance), Aberdeen, Maryland (DA-ST-12-94)

Apply To:

#### Apply To: U.S. Army Materiel Command 5001 Eisenhower Avenue ATTN: AMCPE-CS Alexandria, VA 22333–0001 (703) 274-9415

Applicants should be recognized as national/ international authorities in their research specialties. Salaries range from \$79,931 to \$115,700 (plus locality pay) per year. Interested individuals should call (703) 274-9415 for application materials. Applications must be postmarked by October 28, 1994.

The Department of Army is an Equal Opportunity Employer—U.S. Citizenship Required

#### ASSISTANT DIVISION DIRECTOR MEDICAL SCIENCES DIVISION (Reference #290-94)

The Medical Sciences Division of Oak Ridge Institute of Science and Education, managed by Oak Ridge Associated Universities through a management and operating contract with the U.S. Department of Energy, is seeking an Assistant Division Director to assist in managerial leadership and scientific guidance of the division's applied research and technical assistance/training programs. Other duties will include providing administrative oversight for specific programs; scientific/professional guidance for new project/program development; support for same; and providing expert clinical training and support and project leadership to Radiation Emergency/Assistance Center and Training Site (REAC/TS) and Epidemiology program.

Requirements: M.D. plus postdoctoral speciality board certification/degree, ten years program management and development experience, and international/national peer recognition through publications and appointments to expert groups. Must be licensed to practice medicine in Tennessee or eligible, and possess a DOE Security Clearance or be eligible. Experience in radiological health, toxicology, and epidemiology desired. Must possess excellent leadership, management, interpersonal and communication (written and oral) skills, and be knowledgeable of ORAU/ORISE clients and funding sources (DOE, NIH, NCI, EPA, NRC, etc.).

Send resume (include job Reference number), salary history and requirements, and references to:

#### Employment Office OAK RIDGE ASSOCIATED UNIVERSITIES P.O. Box 117 Oak Ridge, TN 37831-0117

NO PHONE CALLS, PLEASE

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Centro Internacional de Agricultura Tropical International Center for Tropical Agriculture

### invites applications for

# DIRECTOR GENERAL

CIAT is a leading agricultural research institute with a mission to contribute to the alleviation of hunger and poverty, while preserving the natural resource base, in developing countries of the tropics. It is a member of the Consultative Group on International Agricultural Research (CGIAR). CIAT, whose research center is near Cali, Colombia, focuses on four commodities: beans, cassava, rice, and tropical forages; and two fragile agroecosystems in Latin America: the hillsides and the tropical lowlands. CIAT works across Latin America, and also has programs in Africa and Asia. The annual budget is about US\$30 million, with 80 internationally recruited senior scientists and 980 support staff.

The Director General should have a proven record in leadership, management and scientific research administration; high academic qualifications in agricultural or related sciences, with a broad understanding of issues and an awareness of global affairs that affect research in agriculture and natural resource management in developing countries; a successful record in fund raising for research; direct experience in research in developing countries, and in living in cross-cultural environments.

Salary and perquisites are internationally competitive. The term of office begins in March 1995, or soon afterward.

Applications will be accepted until 15 October 1994, or until the position is filled. Send curriculum vitae and the names of three referees to: **Professor R B Flavell, Chairman CIAT DG Search Committee, John Innes Centre, Norwich Research Park, Colney, Norwich NR4 7UH, United Kingdom**. Fax: (44-603) 56844.



We are a dynamic and growing biopharmaceutical company engaged in the research, development, and manufacture of proprietary diagnostic, vaccine, and therapeutic products for infectious diseases, immune system disorders, and certain cancers.

Specific responsibilities will encompass directing clinical trials programs currently including: domestic and international AIDS vaccines, prostate and breast cancer, AIDS therapeutics, chlamydia vaccine development, and analgesics.

Requirements include an M.D. and oncology/infectious disease background. A Ph.D. or M.P.H., plus international clinical trials

Applications are invited for the position of

and Genetics. This is a new position whose

responsibilities include the development and direction of a graduate program in genetic

counseling and the establishment of a liaison

between clinicians, basic scientists and families

human genetic diseases. Minimum qualifications

are a master's degree in medical genetics/genetic

interested in issues and research pertaining to

counseling with American Board of Medical

and research experience related to medical

description of their teaching, research, administrative accomplishments and future

to:

Genetics certification and at least five years of clinical experience and administrative, teaching,

genetics/genetic counseling. Applicants should send complete *curriculum vitae*, a brief

interests (3-4 pages), a bibliography, reprints of

significant publications, and recommendations

from at least three references by Nov. 1, 1994,

Dr. Robert H. Rownd, Director

Center for Molecular Medicine and Genetics

Wayne State University School of Medicine

3216 Scott Hall 540 East Canfield Detroit, MI 48201

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Wayne State University - People working together to provide quality service. All buildings, structures and vehicles at WSU are

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Director of the Genetic Counseling Graduate Program in the Center for Molecular Medicine

**Director of Genetic Counseling** 

**Graduate Program** 

and/or industrial experience would be desirable.

We offer a competitive salary, bonus opportunity, comprehensive benefits, and a rewarding opportunity to play a key role in solving the planet's urgent healthcare problems. For confidential consideration, please mail/ FAX your resume with salary requirement, to: Human Resources, Dept. ADS, United Biomedical, Inc., 25 Davids Drive, Hauppauge, New York 11788; FAX (516) 272-1717. We are an equal opportunity employer m/f/d/v.



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Innovation through focused research
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# DRUG DISCOVERY IN HEMATOPOIESIS

#### Temporary Scientist

SmithKline Beecham Pharmaceuticals, a worldwide leader in pharmaceutical research, has a challenging opportunity within the Department of Molecular Virology and Host Defense, a 46-member group whose activities encompass basic and applied research on many aspects of molecular virology and the immunology of infectious diseases including discovery of novel anti-virals, viral pathogenesis, immunomodulation and hematoregulatory cytokine research.

Working with a Senior Investigator, you will carry out experimental strategies for evaluating the mechanism of action of hematoregulatory compounds, and will establish new assays for studying signal transduction events in hematopoietic cells. The qualified candidate will have a BS or MS in a biological science with at least 3 years postgraduate experience. Excellent laboratory skills are required including experience with cell and tissue culture, experience in the establishment of biochemical and immunological assays, and a working knowledge of molecular biology techniques. Experience with data analysis and good communication skills are required, with industry experience preferred.

Located in our state-of-the-art research facility in suburban Philadelphia, SmithKline Beecham offers a competitive compensation and benefits package, including relocation, and a stimulating work environment in which to grow and excel. For confidential consideration, please send resume with salary history to: SmithKline Beecham Pharmaceuticals, Job #H0324, PO Box 679, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.

> SB SmithKline Beecham Pharmaceuticals Challenging the natural limits.

Miles Inc., Pharmaceutical Division, a rapidly expanding, highly progressive company, offers exceptional growth and advancement opportunities. Join our teamoriented, interdisciplinary environment in West Haven, CT.

#### **Graduate Scholar** Biochemical Pharmacology - 2 Year Commitment

This is an exciting opportunity for a Ph.D. in biochemistry, pharmacology or related field to play an active part in our efforts to identify novel therapeutic targets to treat primary degenerative dementia. Specifically, you will study the biochemical pharmacology of cytokines and apoptosis in the nervous system to determine their role in neurodegeneration. This requires biochemical and pharmacological assay development, particularly in the area of intracellular transduction pathways, as well as applying techniques such as ligand-receptor interaction, cell culture, immunocytochemistry, and in-situ hybridization. Two years' experience in signal transduction mechanisms and molecular and cellular biology would be advantageous. **Dept. ELCL** 

#### Graduate Scholar Cellular Neuropharmacology

The Molecular Pharmacology Section of the Institute for Dementia Research is offering an excellent postdoctoral research opportunity in the Cell Imaging Laboratory. The qualified candidate can expect to utilize his/her molecular/neurophysiological background to evaluate the pharmacology of potential therapeutics. In addition, you will combine your strong molecular expertise with our single cell dynamic imaging expertise, to help identify new therapeutic targets in Alzheimer's disease. You must be familiar with molecular procedures and enthusiastic about the real contributions that multidisciplinary approaches can provide to neuropharmacology and therapeutics. Ph.D. in related discipline is required. **Dept. ELRF** 



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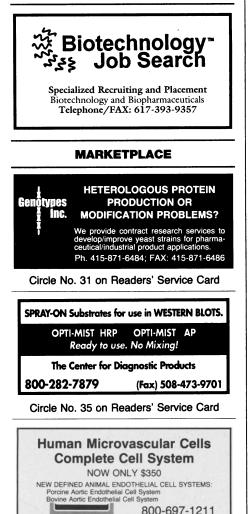
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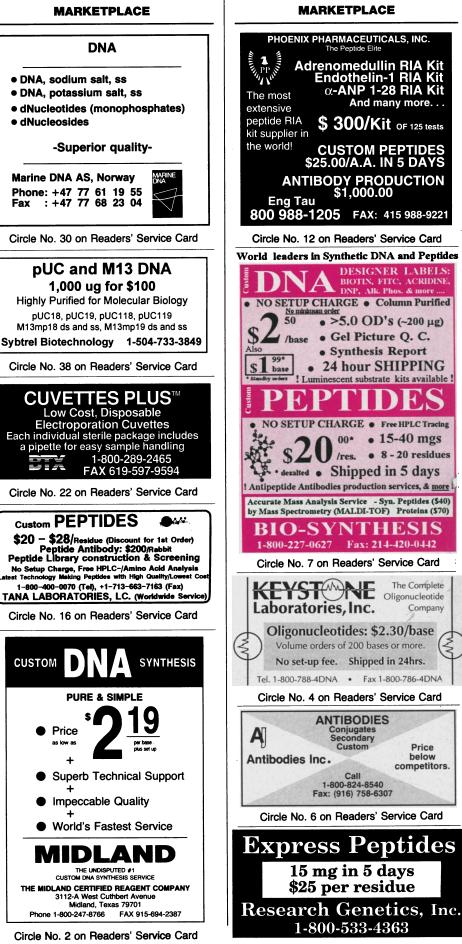
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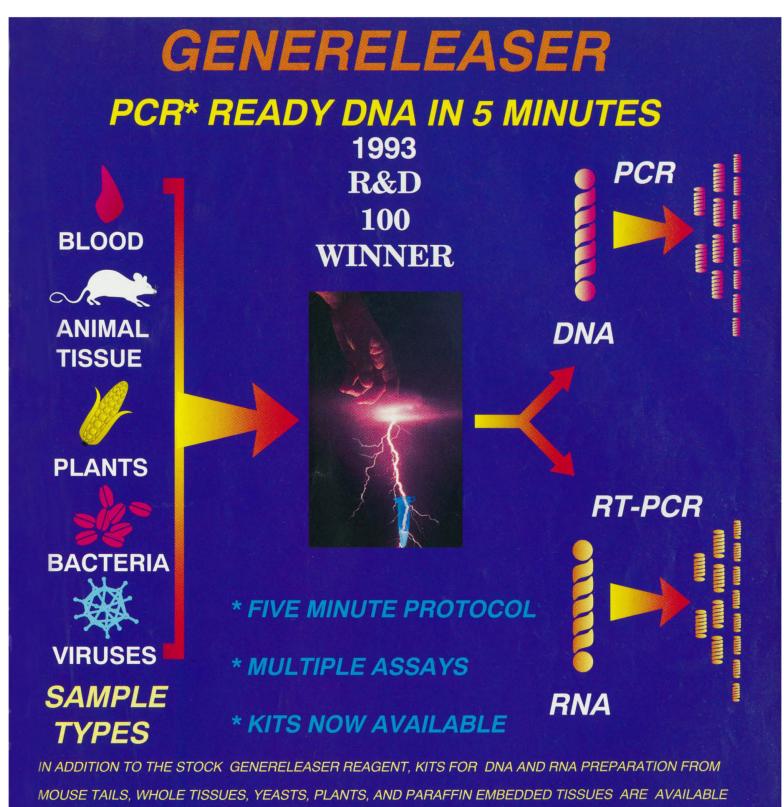
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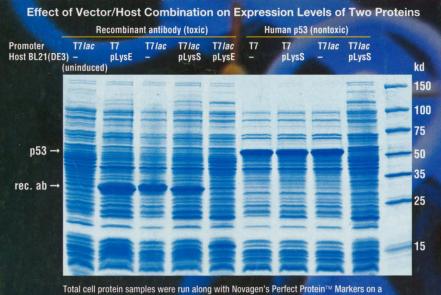
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# The pET Syste rr Choice for Expr

Whereas other systems offer few options for cloning and expression, Novagen has made the commitment to offer the widest possible selection of strategies for exploiting the power and stringency of the T7 promoter. Not only convenient, these options are essential since no one strategy or condition is suitable to express every target protein.

Fusion Tags Available for pET Constructs					
Tag	N/C Terminal	Size (aa)	Basis for Detection Size (aa) and/or Purification Applications		pET Vector Series
T7•Tag™	N	11 or 260	monoclonal antibody	western blot immunoprecipitation immunofluorescence	3, 3x, 5, 9, 11, 17, 17x, 21, 23, 24, 28, pTOPE™, λEX/ox®
S∙Tag™	N	15	S•protein (103aa)	western blot quantitative assay purification	29, 30
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HSV∙Tag™	C	11	monoclonal antibody	western blot immunoprecipitation immunofluorescence	25, 27
pelB/ompT	N	20/22	potential periplasmic localization	protein export/folding	12, 20, 22, 25, 26, 27



4-20% SDS polyacrylamide gradient gel followed by staining with Coomassie blue. Vectors were pET-20b(+) and pET-22b(+) for the recombinant antibody and pET-23b(+) and pET-21b(+) for p53.

## **Modulation of Expression Levels**

The pET System\* has allowed the cloning and expression of many genes that have failed in E. coli promoter-based systems (e.g., lac, tac, p) because they are "leaky," i.e., they allow sufficient basal transcription to cause some accumulation of target proteins in the uninduced state. These products can either kill the host cells or slow their growth sufficiently to allow selection of non-producers. The pET System uniquely provides:

- Regulation at the host level: three basic expression host types ranging from low to high stringency
- · Regulation at the promoter level: low and high stringency promoters

In all, six possible vector/host combinations allow tuning of expression to suit individual target genes (see gel photo for examples).

#### Widest Selection of **Cloning Options and Fusion Tags**

- · Versatile polylinkers allow cloning with or without vector-encoded fusion peptides at either terminus
- f1 origin of replication allows ssDNA preparation for mutagenesis or sequencing
- Original His•Tag fusions for fast, economical purification under native or denaturing conditions using His•Bind Resin
- T7•Tag™, HSV•Tag™ fusions for immunological detection with companion monoclonal antibodies
- New S•Tag<sup>™</sup> fusion for rapid quantification, blot detection and affinity purification
- Tag options include multiple detection and purification approaches

### **Choice of Companion Products** for Convenience, Reliability

- · Competent cells of cloning hosts and proteasedeficient expression hosts
- · Complete selection of detection and purification kits
- Vector primers
- · Sequences on disk
- Single Tube Protein<sup>™</sup>, Red Nova Lysate<sup>®</sup> Primers-to-Protein<sup>™</sup> in vitro translation kits for rapid screening of pET recombinants
- pET T-Vectors for rapid, convenient cloning and expression of PCR\*\* products

\* The pET System is covered by U.S. Patent #4,952,496. A nondistribution agreement accompanies the products. Commercial customers must obtain a license agreement from Associated Universities before purchase \*\* The PCR process is covered by patents owned by

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