

MEMORIAL SLOAN-KETTERING CANCER CENTER

1275 York Avenue, New York, N.Y. 10021

The Memorial Sloan-Kettering Cancer Center offers postdoctoral training fellowships in basic and clinical research. Stipends provided are based upon level of postdoctoral experience. For additional information write to program directors listed below.

CLINICAL SCHOLAR TRAINING PROGRAM IN BIOMEDICAL RESEARCH - Richard A. Rifkind, MD - Director

This program provides training for a select group of physicians who have completed their clinical training and demonstrate a commitment to careers in biomedical research. Training opportunities are available in the research programs of: molecular biology, cell biology and genetics, cellular biochemistry and biophysics, immunology and molecular pharmacology and therapeutics.

SURGICAL ONCOLOGY RESEARCH TRAINING PROGRAM Murray F. Brennan, MD - Director

The program seeks to strengthen academic surgical oncology research by training surgical fellows in laboratory research related to biology of human cancer. Research opportunities include areas such as metabolism, neurophysiology, molecular biology, cell biology, immunology, immunopathology and genetics.

PSYCHIATRIC AND PSYCHOLOGICAL RESEARCH TRAINING IN AIDS - Jimmie Holland, MD - Director

This training program seeks to recruit and train more investigators to conduct research on the mental health aspects of the AIDS epidemic. The program draws upon a faculty involved in investigations of psychiatric, neuropsychological, and behavioral aspects of AIDS/HIV infection in diverse populations (gay men, women, intravenous drug users and minority group members). Training includes didactic seminars, apprenticeship with experienced investigators, and supervised independent research.

PSYCHIATRIC AND PAIN RESEARCH TRAINING IN CANCER Jimmie Holland, MD - Director

This training program seeks to address the urgent need for a cadre of investigators with expertise in the supportive care areas of pain, psychological distress, supportive/palliative care, psychoneuro-immunology and behavioral medicine. The training program is open to psychologists and physicians with training in psychiatry, neurology, medicine and oncology. Research focuses on the psychiatric, neuropsychological, behavioral, neuroimmunological and pain related (clinical and laboratory) aspects of patients with cancer. Curriculum includes didactic seminars, apprenticeship with clinical investigators in pain, psychiatry, psychology and neurology and supervised independent research.

GASTROINTESTINAL ONCOLOGY RESEARCH Sidney J. Winawer, MD - Director

The program offers opportunities for basic and applied research in Gastrointestinal Cancer. Interrelated groups are working on collaborative efforts and jointly participate. This affords the trainees an excellent opportunity to study a wide spectrum of biological, molecular genetic, immunological and pharmacological approaches to gastrointestinal cancer and its etiology. There is special emphasis on cancer prevention, nutrition and inheritance.

HEAD AND NECK TRAINING PROGRAM - SURGICAL ONCOLOGY Stimson - P. Schantz, MD - Director

This is a two year program with dedicated clinical and research training opportunities in head and neck oncology. A specific focus will be placed on cancer prevention and detection strategy for tobacco-induced cancer.

CANCER CHEMOTHERAPY TRAINING PROGRAM

John Mendelsohn, MD and Dean Bajorin, MD - Co-Directors

The Oncology/Hematology Fellowship Program provides physicians with comprehensive clinical training necessary for certification in Internal Medical subspecialties of Oncology and Hematology and research training designed to prepare the trainee for an academic research career. Through the Cancer Chemotherapy Training Program, clinical and laboratory scientists provide research training in gene expression, growth factor modulation, differentiation, drug resistance, gene transfer, and clinical trials methodology after the completion of clinical training.

IMMUNOLOGY RESEARCH TRAINING PROGRAM

Kenneth O. Lloyd, PhD - Director

The program offers training in areas of modern immunology. These include human and mouse immunogenetics, function and mechanism of action of T lymphocytes, biology of B lymphocytes, molecular control of HLA antigen genes and T cell development and selection in the thymus and in the peripheral circulation. The Program also has strong efforts in tumor immunology, with an emphasis on an analysis of the immune response in tumor cancer antigens, the production of human and mouse monoclonal antibodies to tumor antigens and the clinical application of these antibodies.

ENDOCRINE AND METABOLIC RESEARCH TRAINING PROGRAM Martin Sonenberg, MD, PhD - Director

The objective of this program is to develop research physicians and scientists who will contribute to an understanding and management of endocrine and metabolic diseases. Integrated are 17 faculty members of 4 neighboring institutions, Memorial Sloan-Kettering Cancer Center, The Rockefeller University, the New York Hospital-Cornell Medical Center and The Population Council. Some areas of research include: mechanism of hormone action, hormonal control of growth and differentiation, regulation of testicular function, neuroendocrine control of neural gene expression.

TRAINING PROGRAM IN MOLECULAR PATHOLOGY AND IMMUNOLOGY OF HUMAN CANCER - Juan Rosai, MD - Director

This two-year program aims to recruit, develop, and position pathologists committed to an academic career by training in laboratory research related to biology of cancer. Emphasis is on implementing basic science principles and methodologies as they apply to the molecular biology and immunopathology of neoplastic diseases. Active areas of research include: receptor biology, cancer genetics, control of cell growth, molecular mechanisms of drug resistance, tumor antigen immunochemistry, molecular neuro-oncology, as well as applied investigations on tumor suppressor genes and oncogenes.

TRAINING IN RADIATION ONCOLOGY SCIENCES

Zvi Fuks, MD and C. Clifton Ling, PhD - Co-Directors

The overall objective of this program is to promote the development of full-time academic careers targeted to integrating clinical, biological and physical investigations with clinical radiation oncology to improve the management of cancer. For radiation-oncologists-in-training, this program will provide a 2-year research rotation; for Ph.D. scientists interested in biological research, the 2-year training will be primarily laboratory-based with appropriate interface to clinical radiation oncology; medical physics trainees will participate in research projects related to radiotherapy for 2 years.



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From our spectacular location in the mountains of New Mexico, we're building on our rich heritage of technical achievement and creating the next generation of advanced technology. In fact, the work we do deals with a diverse range of important technical issues - from advanced electronic circuitry to experimental structural biology, from the study and protection of the Earth's environment to the exploration of Jupiter and beyond.

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We are looking for highly motivated individuals to join our workforce. Undergraduate and graduate student internships, postdoctoral appointments, and a limited number of staff positions are available in the following disciplines: Chemistry; Computer Science; Earth & Space Sciences; Chemical, Electrical, Mechanical and Nuclear Engineering; Health and Environmental Sciences; Life Sciences; Materials Science/Metallurgy; Mathematics; Optics and Electro-Optics; Theoretical and Experimental Physics and Astrophysics.

For information on our student internships and postdoctoral appointments, please call (505) 667-8622. If you have an advanced degree and are interested in joining our regular staff, please send your resume to Los Alamos National Laboratory, Recruiting Coordinator, MS P286, **94060**, Los Alamos, New Mexico 87545.

Los Alamos National Laboratory is operated by the University of California for the U.S Department of Energy and is an Equal Employment Opportunity Employer. Ability to obtain a Department of Energy Security Clearance may be required. Individuals with disabilities needing reasonable accommodation should call (505) 667-8622. A Teletype Device for the Deaf (TDD) is available by calling (505) 665-5357.

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If you're ready to do more with your degree in the sciences, you'll want to look into Johnson & Johnson, the world's largest and most comprehensive manufacturer of health care products. Our goal has always been to provide our employees with the opportunities they need to achieve their personal career objectives. This commitment is evidenced today through a variety of programs — including in-house training, tuition assistance and job posting — that help our people continually learn more and get more out of their careers.

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Requires a PhD or equivalent in Microbiology with at least 10 years' experience in industrial microbiology with a focus on sterilization of medical devices. Areas of expertise should encompass cobalt irradiation and ethylene oxide. Experience with qualification and validation of sterilization systems is required. (Dept. 115)

Associate/Assistant Scientist

Requires a Bachelors degree and minimum 2 years' experience in blood typing and screening in a blood bank or related facility. 2-5 years' experience required for Associate Scientist level. Requires experience working with blood samples, i.e., universal precautions in safety, ability to work with potentially infectious specimens, design experiments and analyze data. Responsibilities include support and troubleshooting for Immunohematology product line, development of new Immunohematology products, blood typing and screening with tube and BioVue, development of improvements for BioVue. (Dept. 116)

**Research Assistant/Associate
(Neuroendocrinology)**

Involves developing preclinical models for CNS disorders; conducting *in vivo* behavioral experiments, performing assays on blood and tissue; and collecting, analyzing and reporting on data. Requires 0-2 years of lab experience and a BS/MS in Biology or related field, with an emphasis on behavioral studies. Background in neuroscience, psychology or behavioral pharmacology is desired. (Dept. 117)

Research Associate

Requires BS/MS in Biology, Cell Biology or Biochemistry and 3-5 years of lab experience in the area of cell biology or endocrinology. RIA, cell culture and molecular biology skills are desired. You will conduct experiments with novel compounds in *in vivo* and *in vitro* systems to evaluate their effects on various target tissues and reproductive endocrine systems. Will also record observations and measurements in notebooks according to GLPs, and be responsible for proper care of equipment and use of supplies. (Dept. 118)

In addition to an excellent compensation and benefits package, Johnson & Johnson offers a LIVE FOR LIFE Wellness Program with on-site fitness centers, smoke-free workplaces in campus-like settings, and programs that can help you balance your work life with your family life. To apply for these openings or to be considered for future opportunities, send your resume suitable for scanning into our state-of-the-art database (i.e., clean/clear, no graphics, and preferably unfolded). Forward to Dept. code indicated above for the position of your choice, Johnson & Johnson Recruiting, Employment Management Center, P.O. Box 16597, New Brunswick, NJ 08906-6597. We are an equal opportunity employer and support diversity in the work place.

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Turn to page 842
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This issue of SCIENCE receives bonus distribution to these 19 minority organizations:

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- Minority Access to Research Careers
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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:

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CONDITIONS: The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR OF CONSERVATION BIOLOGY AND DIRECTOR

Duke University School of the Environment and The Nature Conservancy Applied Conservation Ecology Program

The Duke University School of the Environment and The Nature Conservancy (TNC) are searching for an individual with expertise in conservation biology to direct a new program designed to facilitate the goals of both institutions. The director will assist in the development and implementation of the Conservancy's applied conservation programs, while participating in the teaching and research activities in the School of the Environment. A major goal of this program is to bring an interdisciplinary approach to the implementation of successful conservation strategies. Initial programs will focus on the Conservancy's active conservation efforts in the Southeast. Teaching responsibilities in the School of the Environment will include a core course in conservation ecology, and participation in seminars and student advising. An energetic research program focused on application of new knowledge to conservation challenges is expected. This individual will coordinate joint educational programs between Duke and TNC.

Candidates must have a Ph.D. in a discipline directly related to conservation biology and demonstrated experience with conservation management issues. Experience dealing with landscape-level issues is of special interest. This position will be a joint, three-year appointment at the **DIRECTOR** level within The Nature Conservancy and as a non-tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** in the School of the Environment. It will be renewable, depending on funding availability. Applicants should send a curriculum vitae and the names of three references to: **Norman L. Christensen, Dean, School of the Environment, Box 90328, Duke University, Durham, NC 27708-0328.** Application review will begin 15 November 1994. *The Nature Conservancy and Duke University are Equal Opportunity Employers.*

FACULTY POSITIONS (2)

Two tenure-track positions. (1) Plant Physiologist and (2) Aquatic Ecologist. Both positions at **ASSISTANT PROFESSOR** level, to begin in September 1995. Ph.D. required. Plant Physiologist: Duties to include teaching introductory biology, general botany, plant physiology, a graduate course in area of expertise and to maintain a research program involving undergraduate and graduate students. Aquatic Ecologist: Duties to include teaching introductory biology, ecology, limnology, graduate aquatic biology or a graduate course in area of expertise and to maintain a research program involving undergraduate and graduate students. Research background should include animal studies associated with freshwater, estuaries and/or wetlands. Environmentally oriented research preferred for both positions. Salary competitive and dependent upon experience. The department has 22 full-time faculty, with approximately 600 majors, and a growing Master's program with about 60 students. Send curriculum vitae, transcripts, three letters of reference and a one-page statement of teaching and research goals to: **The Chair, Hiring Committee, Department of Biological Sciences, Towson State University, Towson, MD 21204.** Deadline for applications is 31 December 1994. *Towson State University is an Equal Opportunity/Affirmative Action Employer. Male/Female/Disabled/Veterans. Females and blacks are encouraged to apply.*

EMORY UNIVERSITY, MATERIALS CHEMISTRY FACULTY POSITION. The Department of Chemistry invites applications from materials chemists for an **ASSISTANT PROFESSOR** (entry level to advanced), tenure-track position starting fall 1995. While candidates in all areas of materials chemistry will be considered, preference will be given to applicants whose research interests complement the strengths of the department. The individual selected for this position will be expected to establish outstanding research and teaching programs. A Ph.D. in chemistry is required. Candidates should send a curriculum vitae, a proposed research program, and arrange to have three letters of recommendation sent to: **Chairman, Faculty Recruiting Committee, Department of Chemistry, Emory University, Atlanta, GA 30322.** Applications received by November 1, 1994, will be evaluated first. All applications should be received by January 1, 1995. *Emory University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR LANDSCAPE/ECOSYSTEMS ECOLOGY

The Division of Biology at Kansas State University (KSU) is seeking to fill a tenure-track position available at the **ASSISTANT PROFESSOR** level effective August 1995. The successful candidate will have a strong record of scholarly achievement in an area of Landscape/Ecosystems Ecology that complements and facilitates active participation in grassland research and the Long Term Ecological Research Program at the Konza Prairie Research Natural Area, and will become involved in new research programs designed to expand ecological studies beyond the site level to a regional scale. Research emphasis may be experimental or have a strong process-based modeling component. Possible areas of specialization include, but are not limited to, grazing ecology, belowground processes, ecosystem-atmosphere interactions, and human influences (including climate change) on regional ecosystem processes. Candidates must have a Ph.D. and preferably postdoctoral experience, will be expected to establish a vigorous and creative scholarly research program, and participate in undergraduate and graduate instruction. Candidates should apply by January 20, 1995, by submitting a curriculum vitae, a brief description of future research plans, and having three letters of reference sent to:

**Brian S. Spooner, Director
Division of Biology, Ackert Hall
Kansas State University
Manhattan, KS 66506-4901**

KSU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS: The Department of Radiology of University Medical Center at Stony Brook has two faculty positions available: an **ASSOCIATE PROFESSOR** of Radiology and an **ASSISTANT PROFESSOR** of Radiology in support of the new Magnetic Resonance Research Laboratory. This new facility includes a full-time 1.5 T clinical research MRI with spectroscopic and echo planar capabilities. The positions require a Ph.D. in Physics, Chemistry or one of the Physical Sciences. Candidates for the senior position should have at least ten (10) years of postgraduate experience conducting significant research in medical imaging and preferably magnetic resonance. Current funded research in the department are in the areas of image processing and magnetic resonance imaging.

Candidates for Assistant Professor should have at least two (2) years of postgraduate experience conducting research in magnetic resonance imaging. The successful candidate will be expected to develop his/her own research in the area of magnetic resonance (MR) imaging as well as collaborate in existing projects of MR spectroscopic imaging and MR guided therapy.

For further information, send your curriculum vitae, and a summary of your research plans to: **Donald P. Harrington, M.D., Professor and Chairman, Department of Radiology, University at Stony Brook, Stony Brook, NY 11794-8460.**

The University at Stony Brook is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSORS MOLECULAR BIOLOGY OR MOLECULAR GENETICS

Two tenure-track **FACULTY POSITIONS** for talented and highly motivated molecular biologists or molecular geneticists are available with a January 1995 start date. We are looking for candidates with outstanding training records and significant research accomplishments. Qualifications must include an earned doctorate in Biochemistry, Molecular Biology, or Molecular Genetics, and at least two years of postdoctoral training. Preference will be given to applicants with transferable NIH or NSF research grants. Successful candidates will be expected to develop independent research programs of international stature, to seek interactions and collaborations with other members of the Department, and to teach in both our Ph.D. and M.D. degree programs. Applicants should submit a résumé, a statement of research interests and plans, and the names and full addresses of three to five scientists who may be contacted for references. All materials should be sent to: **Prof. Kelvin J. A. Davies, Chair, Department of Biochemistry & Molecular Biology, The Albany Medical College, New Scotland Avenue, Albany, New York 12208.** *Women and minority candidates are encouraged to apply and to identify themselves. The Albany Medical College is an Equal Opportunity/Affirmative Action Employer.*

Glaxo Inc.

FELLOWSHIP OPPORTUNITIES

***At Glaxo Research Institute,
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People of widely different backgrounds and perspectives come together to achieve Glaxo's mission: discovering, developing, manufacturing and marketing safe prescription medicines for major unmet needs. That's a diversity of challenge. Glaxo responds with a diversity of human resources.

As part of our commitment to research, our **Fellowship Programs** support scientific endeavors and scholarships through the development of researchers at the early stage of their careers. Many of our Programs are supported/ sponsored by major universities to include the prestigious University of North Carolina at Chapel Hill and Duke University.

Join a multibillion dollar company recognized the world over for innovative solutions to pharmaceutical needs. Currently, Fellowship opportunities are available at our Research Triangle Park, N.C. location in the following areas:

- **Drug Development**
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- **Drug Information**
- **Pharmacokinetics**
- **Epidemiology**
- **Clinical Pharmacology**
- **Psychopharmacology**

To be eligible for these openings, you must possess a post-graduate degree, such as: Master's, M.D., Ph.D or Pharm.D. We offer a highly competitive compensation package. Applicants should send their curriculum vitae, a statement of research interest, and a list of professional references to: **Pam Jones, Director, Education & Support, Dept. SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709.** Your letter must indicate the area you are interested in. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.



POSITIONS OPEN

FACULTY POSITION

LSUMC STANLEY S. SCOTT CANCER CENTER

The Louisiana State University Medical Center Stanley S. Scott Cancer Center is expanding its integrated basic/clinical sciences research program to investigate the molecular aspects of neoplastic transformation. We are recruiting an individual at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level to develop and sustain an outstanding program in cancer biology. While applications in all areas of cancer research are welcome, individuals with research experience and interests in molecular cytogenetics, tumor suppressor genes/oncogenes, angiogenesis, factors/metastasis inhibitors, or cancer gene therapy are particularly encouraged to apply. The successful applicant will hold a tenure-track appointment in the appropriate basic science department. The salary and the start-up package are highly competitive. Requirements are a Ph.D. and/or M.D., subsequent postdoctoral training, and evidence of excellent research productivity and promise. Applicants should submit a curriculum vitae, a three page summary of research goals, and the names of three references to: **Prescott Deininger, Ph.D., Chairman, Cancer Center Search Committee, Department of Biochemistry and Molecular Biology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112.**

Louisiana State University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR BIOCHEMISTRY

The Department of Biochemistry at the University of Connecticut Health Center invites applications for a **TENURE-TRACK POSITION** starting September 1995. We seek an individual with training and research interests in the area of structure-function relationships of proteins to complement new faculty who are utilizing NMR spectroscopy and X-ray diffraction. The successful applicant will be expected to develop an independent research program utilizing biochemical, physical and molecular biological techniques to address a significant problem at the molecular level. The candidate should also be able to perform effectively as a lecturer and in more informal teaching situations at the medical/dental, graduate student and postdoctoral level.

Applicants must have a doctoral degree and relevant postdoctoral experience. Demonstrated excellence in research and clear indications of an ability to initiate a strong research program are essential. Interested individuals should send a complete curriculum vitae, three or more letters of recommendation, a brief description of previous research experience and future research plans, and reprints of most significant work, if available, to: **Dr. Murray Deutscher, Biochemistry Search Committee, Department of Biochemistry, UCONN Health Center, Farmington, CT 06032.**

An Affirmative Action/Equal Opportunity Employer. Male/Female/Disabled/Veterans.

Hiram College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level to begin August 1995. The primary area of responsibility will be **MOLECULAR BIOLOGY** and **GENETICS**. We are looking for candidates whose background and interests would allow them to teach courses from among the following additional areas: microbiology, immunology, developmental biology, biology for non-majors, and interdisciplinary courses. Successful candidates should have a Ph.D., a strong dedication to teaching at the undergraduate level, and will be expected to involve undergraduates in research. The Biology Department has a fully equipped molecular biology laboratory, including a GC-MS, an HPLC and a scanning electron microscope. The department also maintains a 260-acre field station, located three miles from campus, which includes a field laboratory building and a pond-observation/group-meeting facility. Hiram College is a small selective undergraduate liberal arts college located in rural northeast Ohio and is 45 minutes from Cleveland, Akron, and Youngstown. The college is nationally recognized for its strong undergraduate biology program and for its commitment to interdisciplinary programs. Send letter of application, curriculum vitae, statement of philosophy on teaching and research, transcripts, and three letters of reference to: **Dr. Matthew H. Hils, Biology Department, Hiram College, Hiram, OH 44234.** Deadline for receipt of applications is 30 December 1994. *Hiram College is an Equal Opportunity Employer and encourages applications from women and minorities.*

POSITIONS OPEN

PLANT SYSTEMATIST

Northeast Missouri State University invites applications for an anticipated tenure-track position in Plant Systematics/Taxonomy at the **ASSISTANT PROFESSOR** level, starting August 1995. The successful candidate will teach Plant Taxonomy, Local Flora, rotate through General Botany and General Biology, and have the opportunity to offer an advanced specialty course. Expectations also include curation of a 20,000 specimen Herbarium. Teaching and research are mutually supportive activities at Northeast; candidates should be strongly committed to both teaching and developing a research program involving undergraduates and M.S. students. Laboratory space and start-up funds will be provided; space in a 2,800 sq. ft. greenhouse is also available.

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.

Candidates must possess a Ph.D., or have a targeted completion date of mid-August 1995. Complete applications include a curriculum vitae, statements of teaching philosophy and research goals, undergraduate and graduate transcripts, and three letters of reference. All application materials should be sent to: **Dr. Jeffrey M. Osborn, Plant Systematics Search Committee, Division of Science, Northeast Missouri State University, Kirksville, MO 63501 (816-785-4017).** Completed applications will be reviewed starting 15 December 1994.

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

FACULTY POSITION MICROBIOLOGY

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of microbiology beginning September 1995, subject to budgetary approval, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Research interests in any area of microbiology will be considered but applicants working in the areas of bacterial pathogenesis, bacterial genetic regulation or host-pathogen interactions are particularly encouraged to apply. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 9, 1994. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

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

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

ASSISTANT PROFESSOR OF CHEMISTRY, tenure-track position open at the University of New Hampshire at Manchester. Ph.D. in Chemistry, college teaching experience, a commitment to excellence in teaching and a continuing engagement in scholarship are required. Ability to teach introductory biochemistry course highly desirable. Responsibilities will include teaching introductory and organic chemistry courses, developing a general education course for non-scientists and planning additional laboratory facilities. University of New Hampshire at Manchester is an urban commuter college with a diverse student population, particularly adults. Application review begins December 15, 1994.

Send curriculum vitae, statement of teaching philosophy, teaching evaluations and three current recommendations to: **Dr. Peter Haebler, University of New Hampshire at Manchester, 220 Hackett Hill Road, Manchester, NH 03102-8597.** Women and minorities are encouraged to apply. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

INTEGRATIVE BIOLOGISTS Arizona State University

The Department of Zoology invites applications for two tenure-track positions at the level of **ASSISTANT PROFESSOR** beginning in fall 1995 from biologists who are studying questions that integrate multiple levels of organization.

Position 1—An integrative biologist who uses an evolutionary or organismal perspective to study questions at the molecular to organismal level. Individuals using theoretical, comparative, or experimental approaches in fields such as cellular/developmental biology, neuroscience, morphology, physiology, and genetics are encouraged to apply.

Position 2—An integrative biologist who uses evolutionary or ecological perspectives to study questions integrating multiple levels of organization at the organismal level or above. Researchers using theoretical or empirical approaches are encouraged to apply.

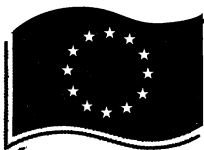
Candidates for both positions must have demonstrated a strong commitment to teaching and basic research, and must have a Ph.D. in an appropriate area by August 1995. Applicants should forward a curriculum vitae, selected reprints, statements of teaching and research, with the latter addressing the integrative nature of their work, and arrange for three letters of reference to be sent directly to: **Dr. Neil F. Hadley (Position No. 1) or Dr. Stanley H. Faeth (Position No. 2), Department of Zoology, Box 871501, Arizona State University, Tempe, AZ 85287-1501.** Review of applications will begin December 15, 1994, and continue until each position is filled. Applications from two individuals for a single shared appointment will be considered.

Arizona State University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN REPRODUCTIVE ENDOCRINOLOGY

The University of California at Davis invites applications from qualified individuals with a D.V.M. or equivalent degree and advanced training (Ph.D. preferred) in a field related to endocrine, paracrine, or autocrine effects on domestic animal reproduction. Candidates must have a working knowledge/familiarity with management systems for common domestic animals; candidates with clinical experience are encouraged to apply. Employment is at the **ASSISTANT PROFESSOR** level, commensurate with qualifications and experience. The development and maintenance of an independent research program is an essential part of the position. Primary teaching responsibilities include leadership of the department's core D.V.M. course in mammalian and avian reproduction. Other teaching is expected in the graduate academic programs (M.S. and Ph.D.) in the area of the candidate's expertise. In addition, limited clinical consultation (10%) is expected. Qualified applicants should submit a letter of intent, curriculum vitae, and names of three references to: **Search Committee Chair, c/o Linda Bentley, Department of Population Health and Reproduction, School of Veterinary Medicine, University of California, Davis, CA 95616.** Applications will be accepted through December 31, 1994, or until a candidate is identified. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

VASCULAR BIOLOGY. The Department of Radiology at the University of Pennsylvania School of Medicine is seeking a radiologist with formal training or equivalent experience in vascular biology research. Candidates with a M.D.-Ph.D. and expertise in the biology of vascular cells will be considered. The position will involve interaction with clinical scientists interested in thrombolysis, restenosis after angioplasty, arterial grafting, permanent and temporary vascular stenting. There is a strong institutional interest in gene therapy of vascular diseases. The candidate will join a large department with areas of research interest in cardiovascular imaging, magnetic resonance imaging, and interventional radiology. Successful candidate will be expected to establish an extramurally funded research program. Advanced clinical training in an area pertinent to vascular imaging and interventions is highly desirable. This is a non-tenured position at the **ASSISTANT/ASSOCIATE PROFESSOR** rank. Interested parties should forward curriculum vitae and summary of research interests to: **Michael J. Pentecost, M.D., Department of Radiology, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.** *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*



EUROPEAN COMMISSION

The Commission is seeking highly qualified candidates (grade A2)

COM/R/5542/94

DIRECTOR OF THE INSTITUTE FOR REMOTE-SENSING APPLICATIONS (ISPRA)

To organise, manage and coordinate the activities of the Institute at both a scientific and administrative level. These activities consist in particular of: ☐ the activities of institutional research related to applications of remote-sensing techniques and development of advanced techniques; ☐ the activities of institutional S & T support related to Earth Observation needs of the Commission services, notably in the field of Agriculture; ☐ the activities of S & T support to be allocated on a competitive basis by Services of the Commission; ☐ the participation in Indirect Action Programmes relevant to the competence of the

Institute; ☐ the performance of Third Party Work for outside private and public organisations.

Recognised scientific competence based also on recent research activities, achievements and publications; ☐ established capability to manage research units resulting from actual experience; ☐ comprehensive vision of the further development of Earth Observation techniques and their enlarged utilisation by socio-economic operators; ☐ experience in the capture of research markets in the open marketplace.

COM/R/5543/94

DIRECTOR OF THE INSTITUTE FOR THE ENVIRONMENT (ISPRA)

To organise, manage and coordinate the activities of the Institute at both a scientific and administrative level. These activities consist in particular of: ☐ the activities of institutional research related to environmental protection and climate; ☐ the activities of institutional S & T support to other Services of the Commission related to the Environmental and Life Sciences issues; ☐ the activities of S & T support to be allocated on a competitive basis by Services of the Commission; ☐ the participation in Indirect

Action Programmes relevant to the competence of the Institute; ☐ the performance of Third Party Work for outside private and public organisations.

Recognised scientific competence based also on recent research activities, achievements and publications; ☐ established capability to manage research units resulting from actual experience; ☐ comprehensive vision of present world environmental problems; ☐ experience in the capture of research markets in the open marketplace.

COM/R/5545/94

DIRECTOR OF THE INSTITUTE FOR ADVANCED MATERIALS (PETTEN)

To organise, manage and coordinate the activities of the Institute at both a scientific and administrative level. These activities consist in particular of: ☐ the activities of institutional research related to advanced materials, their characterisation and their applications; ☐ the activities of institutional S & T support related to materials issues; ☐ the activities of the High Flux Reactor; ☐ the activities of S & T support to be allocated on a competitive basis by Services of the Commission; ☐ the participation in Indirect Action Programmes relevant to the competence of the Institute;

☐ the performance of Third Party Work for outside private and public organisations.

Recognised scientific competence based also on recent research activities, achievements and publications; ☐ established capability to manage research units resulting from actual experience; ☐ comprehensive vision of the further development of the role of materials in science and technology; ☐ experience in the capture of research markets in the open marketplace.

Nationality: Candidates must be a national of one of the European Union's Member States; however, exemption is granted to all candidates of Austrian, Finnish, Norwegian or Swedish nationality.

Interested persons should send their applications with a detailed c.v. Before 1st of December 94 to:

Joint Research Center, Unit "Human Resources", I-21020 Ispra (VA).

The Commission's policy is to ensure equal opportunities for men and women.

POSITIONS OPEN

UNIVERSITY OF TORONTO DEPARTMENT OF CHEMISTRY TENURE-STREAM APPOINTMENT

The Department of Chemistry, University of Toronto, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level in Environmental Chemistry, effective on or after July 1, 1995. Applicants should possess a strong academic background and an excellent research record in any aspect of Environmental Chemistry. The successful candidate will be expected to conduct an active and innovative research program and to teach at both the undergraduate and graduate level.

Applications will be accepted until December 15, 1994. Salary commensurate with experience. The University of Toronto is an employment equity employer. Applicants should provide a curriculum vitae and an outline of their proposed research, and should arrange to have three confidential letters of recommendation sent on their behalf to:

Chair of Chemistry
Department of Chemistry
University of Toronto
80 St. George Street, Room 150
Toronto, Ontario M5S 1A1

ASSISTANT PROFESSOR LIFE SCIENTIST

The Center for Latin American Studies at the University of Florida seeks to fill a tenure-track position of **ASSISTANT PROFESSOR** (advanced level) in a life science discipline such as wildlife ecology, forestry, botany, or zoology. Candidates must have a Ph.D. and demonstrated interest and experience in interdisciplinary research and training related to biological conservation and rural development in Latin America. The position is shared between the Center for Latin American Studies and the academic department of the successful applicant's discipline.

Responsibilities include: graduate and undergraduate teaching, both disciplinary and interdisciplinary; academic advisement; program development and fund-raising related to the Center's Tropical Conservation and Development Program; and research and publication on conservation and development questions in Latin America. The position begins 11 August 1995. Salary is negotiable.

Please send letter of application, curriculum vitae, two relevant reprints and three letters of recommendation by 15 December 1994 to: **Dr. Marianne Schmink, Chair, Search Committee, Tropical Conservation and Development Program, Center for Latin American Studies, University of Florida, P.O. Box 115531, Gainesville, FL 32611-5531 USA.**

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

UNIVERSITY OF VIRGINIA Faculty Positions in Pharmacology

Applications are invited for two tenure-track positions in the Department of Pharmacology to be filled at the rank of **ASSISTANT PROFESSOR** or higher. The Department is seeking applicants with significant postdoctoral research experience and research interests relevant to cell signalling using contemporary approaches, including molecular structure, genetic analysis of function in model organisms or differentiated cells, control of transcription, and the organization and function of the cardiovascular, nervous, or immune systems. Successful candidates will be expected to develop or maintain externally funded research programs and to participate in graduate and medical student teaching. The University of Virginia provides a highly interactive scientific community well supported by core facilities, research centers and training programs. Highly competitive salary and start-up packages are available for these positions.

Curriculum vitae, statement of research accomplishments and plans, and three letters of recommendation should be directed to: **Dr. Carl E. Creutz, Chair, Faculty Search Committee, Department of Pharmacology, University of Virginia, Charlottesville, VA 22908.** *The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.*

POSITIONS OPEN

FACULTY POSITION MAMMALIAN MOLECULAR GENETICS

The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of genetics beginning September 1995, subject to budgetary approval, to continue expansion of the Department. This appointment is expected to be made at the **ASSISTANT PROFESSOR** level, but under exceptional circumstances experienced candidates with outstanding records will be considered for appointment at higher rank. Applications are invited from candidates with research interests in any area of mammalian biology. Individuals with a strong research emphasis on genetic models of developmental or disease processes are especially encouraged to apply. The successful candidate will join another faculty member in utilizing our transgenic core facility. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 9, 1994. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of references sent to:

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

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

PLANT BIOLOGIST TENURE-TRACK POSITION

Team-teach the botanical portion of an introductory organismal course, develop and teach a mid-level plant course that includes morphology and development of both vascular and non-vascular plants. Develop two additional upper-level courses reflecting the individual's expertise, research interests and department needs. Areas considered particularly attractive are: interaction between plants and other organisms, co-evolutionary relationships, or other areas to complement current department strengths in ecology, biochemistry, molecular genetics and physiology. Ph.D. required. Postdoctoral research experience and demonstrated teaching ability considered valuable assets. The successful applicant will be expected to develop an active research program that involves undergraduates and also secure extramural research funding. Entrance at the **ASSISTANT PROFESSOR** level. Send letter of application stating qualifications; statement of teaching philosophy and research interests; curriculum vitae; transcripts and three letters of recommendation to: **Robert A. Bellig, Chair, Biology Department, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082.** Applicant review begins 30 November 1994. *Gustavus Adolphus is a highly selective liberal arts school located 75 miles south of the Twin Cities. Gustavus Adolphus College is an Equal Opportunity Employer and encourages applications from women and minority groups.*

The Department of Biology and the Center for Energy and Environmental Studies at Boston University seek an **ECOSYSTEM SCIENTIST** for an anticipated position at the **ASSISTANT PROFESSOR** level (tenure-track) starting in September 1995. The successful candidate will be expected to develop a strong research program that complements existing faculty strengths in ecology, conservation biology, evolution, and environmental science. Opportunities exist to collaborate with colleagues in other Centers and Departments in the areas of climatology, geochemistry, biogeography, remote sensing, archaeology, and hydrology. The successful candidate is expected to teach and supervise students at the undergraduate and graduate level, and to develop a strong, externally funded research program. A Ph.D. is required and postdoctoral research is desirable. Send a curriculum vitae, description of teaching interests, and three letters of recommendation by December 31, 1994, to: **Dr. Richard Primack, Ecosystem Search Committee, Department of Biology, 5 Cunningham Street, Boston University, Boston, MA 02215.** *Women and minority candidates are encouraged to apply. Boston University is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

SCIENCE EDUCATION BALL STATE UNIVERSITY Muncie, Indiana

Applications are invited for a tenure-track science education position at the **ASSISTANT PROFESSOR** level in the Department of Biology available fall 1995. Candidates are expected to have a commitment to excellence in teaching, to be competent in current approaches used in science education and biology instruction, and to establish an active research program. Responsibilities: teach courses in science education with emphasis on elementary science methods and introductory biology; conduct research in specialty area and promote student involvement in research; and be an active member of the academic community. Minimum qualifications: earned doctorate in science education with a strong background in the biological sciences or in biology with a strong background in science (ABD's will be considered but doctorate must be complete by August 15, 1996); elementary or secondary school science certification; and effective written and oral communication skills. Preferred qualifications: demonstrated teaching ability and publications and/or evidence of other scholarly activity. Submit curriculum vitae, documentation of scholarly activity, transcripts, and three (3) letters of reference to: **Chair, Science Education Search Committee, Department of Biology, Ball State University, Muncie, IN 47306.** Review of applicants will begin January 20, 1995, and continue until the position is filled.

Ball State University is an Equal Opportunity/Affirmative Action Employer and is strongly and actively committed to diversity within its community.

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 PROFESSOR**. 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.

THREE TENURE-TRACK POSITIONS IN ENVIRONMENTAL STUDIES

Florida International University, the State University of Florida at Miami, has three tenure-track positions in the Department of Environmental Studies at the **ASSISTANT PROFESSOR** level. Applicants must have a Ph.D. and an active research program; postdoctoral training is desired. Successful candidates will teach undergraduate and graduate courses and pursue externally funded research in their areas of expertise. Two positions, Soil Microbiology/Bioremediation (summer 1995) and Ecotoxicology (fall 1995), are joint hires with the Southeastern Environmental Research Program (SERP). The third position, Human Demography (fall 1995), is full-time in the Department of Environmental Studies. The rapidly expanding department will offer an M.S. degree beginning in 1996. SERP sponsors significant multidisciplinary research projects in the Everglades, Florida Bay, and the Florida Keys. The University's combined graduate and undergraduate enrollment exceeds 27,000. To apply, send a curriculum vitae, names of three references, one-page statement of teaching and research interests to: **Search Committee Chair, Department of Environmental Studies, Florida International University, Miami, FL 33199.** Applications must be postmarked on or before 31 December 1994. *Florida International University is an Equal Access/Affirmative Action/Equal Opportunity Employer.*



THELMA HUNT
UNIVERSITY PROFESSOR OF
PSYCHOLOGY AND
HEALTH SCIENCES

The George Washington University invites nominations and applicants for an endowed University Professorship in cognitive neuroscience. The successful applicant will have a strong and active research program as evidenced by scholarly production of funded research. Preference will be given to those specializing in human cognition. A high level of experience in graduate and undergraduate instruction is expected. The starting date for the position is September 1995. Review of applications will begin January 15, 1995 and continue until the position is filled. Submissions should include a current resume, professional references and a statement of career interests. Send nominations and applications to Chair, University Professor Search Committee, Office of the Vice President for Academic Affairs, The George Washington University, Washington DC 20052.

The George Washington University is an equal opportunity, affirmative action employer. Members of minority groups are especially encouraged to apply.

**RESEARCH
SCIENTIST**

Saint Francis Campus

Saint Francis Hospital and Medical Center Located in Hartford, Connecticut, is seeking candidates to join our Department of Research and our bone cell and molecular biology group. Candidates should have completed a doctoral degree and a postdoctoral fellowship and have prior experience in molecular biology. Candidates will be eligible for an appointment at the University of Connecticut School of Medicine. Senior postdoctoral fellows will also be considered. Interested candidates should send resume and references to:

Dr. Ernesto Canalis, Saint Francis Hospital and Medical Center, 114 Woodland St., Hartford, Connecticut 06105-1299, Fax: (203) 548-5415.



EEO/AA - M/F/D/V
Pre-Employment Drug Testing

WORLD AIDS FOUNDATION

The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.

The main area of interest of the WAF is education for health professionals in developing countries, especially in-country training. This includes highly-focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infection and AIDS.

The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. Projects that involve collaboration with the WHO Global Programme on AIDS are of particular interest. The WAF is also interested in applications that originate from developing countries and which emphasize collaboration between and among scientists, physicians and public health workers from developed and developing countries. Of special interest are projects which respond to the anticipated increase in HIV infection in South-East Asia and Western Pacific.

While the limit of any single funding request which may be made to the Foundation is \$200,000, the average award is less than \$100,000. Applicants are encouraged to make their proposed budgets as cost-effective as possible.

Application Procedures:

Concept letters and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1. However, applicants are encouraged to submit their concepts as soon as possible to assure the greatest amount of time to develop their full proposals. Concept letters received at or close to the deadline could be at a significant disadvantage compared to applicants with more time to develop their full applications.

Concept letters and inquiries should be directed by mail or by fax to either:

World AIDS Foundation
Assistant Secretary for Health
c/o Director, Fogarty International Center
National Institutes of Health
Building 31, Room B2C02
31 CENTER DR MSC 2220
BETHESDA, MD 20892-2220 U.S.A.
Fax: (301) 402-2056

or

Fondation Mondiale SIDA
c/o Directeur de l'Institut Pasteur
28 rue du Docteur Roux
75724 Paris, Cadex 15 FRANCE
Fax: 0033-1-45688938

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR VETERINARY MOLECULAR BIOLOGY

Applications are invited for a tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** for appointment in 1995. This position is 90% research, 10% teaching and service, and supported by a generous start-up package including technical support. Salary range is \$42,000–\$50,000 based on experience and qualifications. Required qualifications: Ph.D. or Ph.D./D.V.M. in a biomolecular discipline, postdoctoral experience, and potential to establish a competitive independent research program. Applicants at the Associate level are expected to have established an extramurally funded research program. Areas of research interest for this position broadly encompass molecular and cellular models of mammalian disease, including the study of infectious bacterial, viral, or eukaryotic agents and the study of host responses to these agents. Interested applicants should send a summary statement concerning their research program including grant applications currently planned or submitted and should address the impact of their chosen disease model to veterinary medicine. In addition, applicants should send a curriculum vitae, up to three selected reprints, and arrange for three letters of reference to be sent to: **Chair, Search Committee, Veterinary Molecular Biology, Montana State University, Bozeman, MT 59717-0360**. Screening will begin January 10, 1995.

ADA/Equal Opportunity/Affirmative Action/Veterans Preference.

CLINICAL MICROBIOLOGIST

Applications are invited for a tenure-track position at the **ASSISTANT or ASSOCIATE PROFESSOR** rank in the area of veterinary clinical microbiology in the Department of Microbiology at Colorado State University. Duties will be divided between clinical microbiology service at the Colorado State Veterinary Diagnostic Laboratory (50%), and teaching and research activities (50%). Candidates should possess the Ph.D., D.V.M./Ph.D. or equivalent degree in microbiology; postdoctoral experience in a sub-specialty of clinical microbiology (i.e., bacteriology, virology, or immunology) is highly desirable. Candidates should have interests in supervising diagnostic microbiology services and in developing an innovative research program employing molecular techniques for investigation of infectious disease problems. Teaching will be expected in the Professional Veterinary Medical curriculum, and the graduate program in the Department. Submit a curriculum vitae, a summary of career interests, and request that three letters of recommendation be sent to: **Dr. James K. Collins, Chair of the Search Committee, Department of Microbiology, Colorado State University, Fort Collins, CO 80523**. Closing Date: December 31, 1994. *Colorado State University is an Equal Opportunity/Affirmative Action Employer. Office: 21 Spruce Hall.*

BIOLOGICAL SCIENCES: MESA STATE COLLEGE invites applications for two tenure-track **ASSISTANT PROFESSOR** positions available August 1995. Ph.D. required. Teaching 12 credit hours per semester upper division and introductory courses. Preference will be given to candidates with significant coursework and/or research in (1) invertebrate biology, with interests in plant/animal interactions or quantitative ecology or (2) microbial ecology. Send curriculum vitae, statement of teaching and research interests, all college transcripts, and names of three references to: **Dr. Robert E. Kribel, Dean, School of Natural Sciences and Mathematics, Mesa State College, P.O. Box 2647, Grand Junction, CO 81502**. Deadline January 17, 1995. *Mesa State College is an Affirmative Action/Equal Opportunity Employer. Mesa State College is a drug-free workplace. All employees of the College must agree to abide by our drug-free policy as a condition of employment.*

ASSISTANT PROFESSOR. Assumption College seeks a Molecular Biologist/Biochemist with interest in Biochemistry, Cell and Molecular Biology, and one or more related areas in Chemistry/Biology. Ph.D. required. Initial one-year appointment starts September 1995 and is renewable up to three years. Possibility of tenure-track. Candidates should be able to support the Catholic, liberal arts mission of the College.

Submit application, including a statement of teaching philosophy, curriculum vitae, transcripts, and three letters of reference by December 15, 1994, to: **Dr. Paul Mahon, Division of Natural Sciences, Assumption College, 500 Salisbury Street, Worcester, MA 01615-0005**. *Assumption College is an Equal Opportunity Employer.*

POSITIONS OPEN

FACULTY POSITION IN BIOCHEMISTRY

The Department of Biochemical and Biophysical Sciences at the University of Houston invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Exceptional candidates at the Associate Professor level will also be considered. The position requires a Ph.D. degree and postdoctoral experience. We are especially interested in recruiting a biochemist with interests in areas of protein/RNA enzymology including but not limited to mechanisms, structure, folding, molecular design, catalytic antibodies, or directed evolution. The faculty member will be expected to develop a nationally competitive research program, participate in graduate training, and contribute to undergraduate teaching. The Department is housed in a new building with state-of-the-art equipment and encourages active research collaborations among its faculty. Review of applications will begin by December 1, 1994. Please submit curriculum vitae, statement of research plans and have three letters of reference sent to: **Dr. Joseph Eichberg, Chair, Search Committee, Department of Biochemical and Biophysical Sciences, University of Houston, Houston, TX 77204-5934**. *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, women, veterans, and persons with disabilities are encouraged to apply.*

TENURE-TRACK ASSISTANT PROFESSOR TUFTS UNIVERSITY PHYSIOLOGICAL ECOLOGIST

The Department of Biology at Tufts University invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level for the fall of 1995. Applicants must have a Ph.D., teaching experience desirable. The successful candidate is expected to develop and maintain an active research program in animal or plant physiological ecology that includes evolutionary and/or molecular approaches. Possible areas of research include but are not limited to physiological ecology, behavioral physiology, or functional morphology. Teaching duties include designing and implementing of the laboratory portion of a second semester introductory biology course for majors and teaching an intermediate course in the person's area of expertise. Applications should include curriculum vitae, reprints of up to three publications, and a statement of present and future research plans and teaching interests. Completed applications and three letters of recommendation should be sent to: **Professor Harry Bernheim, Biology Search Committee, Tufts University, Medford, MA 02155** and received by December 16, 1994. *Tufts University is an Equal Opportunity/Affirmative Action Employer.*

VISUAL PERCEPTION, BROWN UNIVERSITY: The Department of Cognitive and Linguistic Sciences invites applications for a tenure-track position in visual perception or visual cognition, beginning July 1, 1995. Candidates at the **ASSISTANT PROFESSOR** level, including those nearing tenure, are welcome to apply. Preference will be given to the areas of vision, perception, object recognition, imagery, attention, and visual-motor control. Applicants should have a strong experimental research program, strong computational interests, and a broad teaching ability in cognitive science at both the undergraduate and graduate levels. Women and minorities are especially encouraged to apply. Send curriculum vitae, three letters of reference, reprints and preprints of publications, and a one-page statement of research interests to: **Dr. William H. Warren, Chair, Vision Search Committee, Department of Cognitive & Linguistic Sciences, Brown University, Providence, RI 02912** by January 1, 1995.

Brown University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENTIST, ASSISTANT PROFESSOR. The Environmental Science Program of DePaul University seeks to hire an Environmental Scientist to fill a full-time, tenure-track position. Areas of interest include applied ecology, microbial ecology, and toxicology. The successful candidate will need to make a significant commitment to undergraduate education, including teaching courses to non-majors. An active research program is expected and supported. A letter indicating interest in the position should be sent along with a curriculum vitae to the **Program Director, Environmental Science Program, DePaul University, 2320 North Kenmore, Chicago, IL 60614-3298**. The review and selection process will begin on January 13, 1995, although applications received after that date may be considered. *Equal Opportunity Employer/Educator.*

POSITIONS OPEN

ATMOSPHERIC CHEMIST

Tenure-track position as **ASSISTANT PROFESSOR** in the Institute for Environmental Studies, an interdisciplinary unit of the University of Illinois at Urbana-Champaign. Appointment at higher rank possible for qualified applicants. Ph.D. degree and demonstrated potential both for teaching (at undergraduate and graduate levels) and research required. Research specialty may be any of a wide range of areas in atmospheric chemistry or physics of environmental importance, including studies of interfacial phenomena. A joint appointment in an appropriate disciplinary department is anticipated, and interdisciplinary interactions with social and natural scientists within the Institute and in other University and State units are possible. Salary commensurate with qualifications. Successful candidates will be expected to take part in research, teaching, and public service activities of the Institute. Send curriculum vitae, statement of research and teaching goals, and three letters of reference to: **Richard Larson, Chairman, Atmospheric Chemistry Search Committee, Institute for Environmental Studies, UIUC, 1101 West Peabody Drive, Urbana, IL 61801**. Telephone: 271-333-7269. Proposed starting date August 15, 1995. To receive full consideration applications should be submitted by December 15, 1994; however, the search will remain open until the position is filled.

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

EASTERN WASHINGTON UNIVERSITY BOTANY AND TERRESTRIAL PLANT ECOLOGIST

ASSISTANT PROFESSOR, tenure-track position, in botany/terrestrial plant ecology, Eastern Washington University, Department of Biology. Teaching responsibilities will include a three-quarter general biology sequence for majors, botany, and upper division or graduate specialty courses. The successful candidate will be expected to conduct research, direct graduate students at the Master's level, and develop a funded research program. The candidate must have a Ph.D. Postdoctoral experience and prior teaching experience are desirable.

Applicants should send curriculum vitae, statement of teaching and research, and the names and addresses of three references by January 31, 1995, to: **Dr. S. Schwab, Botany Search Committee, Department of Biology, MS No. 72, Eastern Washington University, Cheney, WA 99004-2431**. Telephone: 509-359-4727. *Eastern Washington University is committed to Affirmative Action and Equal Opportunity, and applications from members of historically underrepresented groups are encouraged.*

FACULTY POSITION IN BIOMEDICAL ENGINEERING

The Biomedical Engineering Department of Northwestern University has a tenure-track position in cellular biomechanics and transport at the **ASSISTANT PROFESSOR** level for the 1995–1996 academic year. Candidates will be expected to teach both graduate and undergraduate courses and to develop a funded program of biomedical engineering research. Candidates should have earned a Ph.D. in either engineering, or in a related physical science or quantitative physiology. Interested applicants should submit by January 1, 1995: a curriculum vitae; outline of future research; teaching interests; and names, addresses, Email addresses, and FAX numbers of at least three references. Correspondence should be addressed to: **Andrew E. Kertesz, Chairman, Biomedical Engineering Department, Northwestern University, 2145 Sheridan Road, Evanston, IL 60208-3107**. *We are particularly eager to consider women and/or minority applicants. Northwestern University is an Affirmative Action/Equal Opportunity Employer. Hiring is contingent upon eligibility to work in the United States.*

ASSISTANT PROFESSOR IN PLANT BIOLOGY, employing modern molecular approaches. Tenure-track beginning August 1995. Ph.D. required; postdoctoral experience preferred. Expected to establish ongoing research program involving undergraduate students and teaching introductory and evolutionary biology. Send by December 1, 1994, letter including description of teaching and research interests, curriculum vitae, and a list of three references with addresses to: **Earl Savage, Ph.D., Chair, Department of Biological Sciences, Indiana University South Bend, P.O. Box 7111, South Bend, IN 46634**. *An Equal Opportunity/Affirmative Action Employer.*

Pharmaceutical Science

At PARKE-DAVIS, our mission is the improvement of the human condition through the introduction of innovative pharmaceuticals. Our research center combines the intellect and motivation of 1500 distinct individuals into a strong, positive force for change in human health.

The creative energy that drives the success of our research effort is substantially the product of diversity. Our scientists are not only innovative, but also very different from one another in terms of physical characteristics, culture, experience, outlook, approach and perspective. It is the constant interaction of these differences that sparks the ideas that lead to discovery.

If you have a keen interest in pharmaceutical science, and enjoy the challenge and fulfillment of participating in leading-edge research in a diverse environment, please send your CV and references to **Box JDM-01, Human Resources Department, PARKE-DAVIS Pharmaceutical Research, 2800 Plymouth Road, Ann Arbor, MI 48105.** "Smoke-Free Work Environment"



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The BFGoodrich Collegiate Inventors Program rewards university students and their faculty advisors doing research and innovative projects.

- Applications now being accepted for the 1995 National Competition.

Deadline: February 14, 1995, 5 P.M.

- Must be a full-time student in a U.S. college or university.
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For information or applications call

Administered by Venture Place, home of the National Inventors Hall of Fame.

**1-800-968-4332
Ext. 1701**

DEDICATED TO HELPING MANKIND

ASSISTANT PROFESSOR

The Salk Institute is seeking candidates to undertake independent research in the area of growth control yeast or animal cells in the Molecular Biology and Virology Laboratory (MBVL) of the Armand Hammer Center for Cancer Biology. Current areas of research in MBVL include: mechanisms of growth control and neoplastic cell transformation (W. Eckhart); molecular analysis of steroid receptors and neuroendocrine function (R. Evans); fission yeast cell cycle and DNA replication (S. Forsburg); growth control, oncogenesis and cell cycle progression (T. Hunter); molecular basis of vertebrate limb development (J.C. Izpisua Belmonte); HIV-1 transcriptional control (K. Jones); molecular genetics of chromosome structure and inheritance in *Drosophila* (G. Karpen); regulation of development and differentiation in *Drosophila* (M. McKeown); protein tyrosine kinases and signal transduction (B. Sefton); oncogenes and gene transfer (I. Verma); immortalization of human fibroblasts (M. Vogt); and cell cycle control, genetic stability and cell death (G. Wahl).

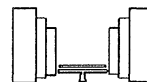
Interested individuals are invited to send an application to: **MBVL Search Committee, The Salk Institute, 10010 N. Torrey Pines Road, La Jolla, CA 92037.** Please include a curriculum vitae, description of present and future scientific endeavors, and three letters of recommendation. Applications will be reviewed beginning December 15, 1994.

RESEARCH ASSOCIATE

This postdoctoral position will work on the genetic and molecular control of floral initiation in *Arabidopsis* (Weigel et al., *Cell*, 69, 843-859; Weigel and Meyerowitz, *Science* 261, 1723-1726). Salk has previously cloned the *LEAFY* gene, which is the earliest known gene to be expressed in flowers and which promotes floral overshoot development. The successful applicant will study the function of *LEAFY* protein *in vivo* and *in vitro*. Must be highly motivated with strong background in molecular biology and/or biochemistry, preferably with transcription factors.

Interested individuals are invited to send inquiries to: **Detlef Weigel, Ph.D., Plant Biology Laboratory, The Salk Institute, 10010 N. Torrey Pines Road, La Jolla, CA 92037.** Please include curriculum vitae and three references.

The Salk Institute offers a highly interactive environment with a number of research groups working in the areas of molecular biology and neuroscience, and is part of an exciting molecular biology and biomedical community that includes UCSD, The Scripps Research Institute and La Jolla Cancer Research Institute. We offer competitive salaries and excellent benefits. The Salk Institute is an affirmative action employer. EOE.



THE SALK INSTITUTE

POSITIONS OPEN

ANIMAL PHYSIOLOGY/ANIMAL BEHAVIOR Carleton College

Applications are invited for a full-time, tenure-track, position at the rank of **ASSISTANT PROFESSOR** in the Department of Biology. Teaching responsibilities include upper-level courses in animal physiology and in animal behavior, and participation in a team-taught introductory biology course. Must be committed to teaching and research in the context of a liberal arts college. Candidate will be expected to maintain a research program which encourages participation by undergraduates and to actively seek external research support. Start-up funding is available. Applicants must have a Ph.D.; postdoctoral experience is highly advantageous. Send letter of application, curriculum vitae, undergraduate and graduate transcripts, a statement of teaching philosophy, a summary of research goals, and three letters of recommendation to: **Gary E. Wagenbach, Department of Biology, Carleton College, Northfield, MN 55057-4025** by December 15, 1994. *Carleton College is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are strongly encouraged to apply.*

BIOCHEMISTRY/MOLECULAR BIOLOGY MEHARRY MEDICAL COLLEGE

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

FACULTY POSITION IN GENETICS—Duke University Medical Center. Applications are invited for a tenure-track position in the Department of Genetics at Duke University Medical Center. Although we anticipate filling this position at the **ASSISTANT PROFESSOR** level, we will consider individuals for any level appointment. We are particularly interested in those individuals that are engaged to work utilizing mammalian systems or focusing on the genetics of human disease. The facilities and environment of the Department of Genetics are excellent. Applications should include a curriculum vitae, a brief description of research accomplishments, a brief description of plans for future research, and the names of three individuals that can serve as referees. Address applications to: **Genetics Search Committee, Department of Genetics, Duke University Medical Center, Box 3054, Durham, NC 27710**. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF CHEMISTRY. Tenure-track position in Chemistry, available August 15, 1995. Duties include teaching undergraduate/graduate courses in organic chemistry and establishing an externally funded research program. A Ph.D. is required; postdoctoral experience is desired. The applicant should have interests and capabilities in organic chemistry with research efforts that complement ongoing programs in biochemistry, carbohydrate chemistry, environmental chemistry, natural products chemistry, or polymer chemistry. Submit résumé, research plans, and three letters of reference by December 1, 1994, to: **Dr. Robert T. LaLonde, Department of Chemistry, State University of New York—College of Environmental Science and Forestry, Syracuse, NY 13210**. *State University of New York—College of Environmental Science and Forestry is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY YALE UNIVERSITY

The Department of Molecular Biophysics and Biochemistry seeks applicants for a position at the level of **ASSISTANT PROFESSOR** in the general area of physical biochemical studies of macromolecular mechanisms. This would be a particularly good opportunity for those who wish to interact with molecular biologists and biochemists as well as a large program in structural biology. The person appointed would be expected to develop an independent research program and to participate in departmental teaching.

Candidates should submit two copies of a curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent no later than December 15, 1994, to:

**Thomas A. Steitz, Search Chair
Department of Molecular Biophysics and
Biochemistry 0734
Yale University
P.O. Box 208114
266 Whitney Avenue
New Haven, CT 06520-8114 USA**

Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

FACULTY POSITION IN IMMUNOBIOLOGY

Applications are invited for a full-time tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level in the Department of Biological Sciences starting August 18, 1995, subject to the availability of funding. The candidate will be expected to develop a vigorous basic research program in immunobiology and to teach undergraduate/graduate level immunology. Applicants utilizing cellular and molecular research approaches will be preferred. This position requires two years of postdoctoral training, a record of productive research, and the ability to interact collegially. Appointment at the Associate level requires a record of funded research activity and a currently funded research program. The Department of Biological Sciences has three new, state-of-the-art Core Facilities in Molecular Biology, Cell Culture, and Protein Analysis. Deadline for applications is November 30, 1994, or the first of the month until the position is filled. Applicants should submit curriculum vitae, reprints of key publications, a statement of current and future research plans, and three names of references to: **Chairperson, Immunobiologist Search Committee, Department of Biological Sciences, The Wichita State University, Campus Box 26, Wichita, KS 67260-0026**. TTY 316-689-3067. *Affirmative Action/Equal Opportunity Employer.*

MOLECULAR BIOLOGIST FORDHAM UNIVERSITY

Individuals are invited to apply for a tenure-track position at the **ASSOCIATE PROFESSOR** level. The department has an active research program and provides excellent physical facilities, state-of-the-art equipment, a stimulating research environment, start-up funds and competitive salaries and benefits. Candidates should possess expertise in the area of molecular biology and have an ongoing grant-supported research effort underway. The appointee will be expected to establish an active research program and participate in teaching at the graduate and undergraduate levels. Please submit curriculum vitae, a statement of research and teaching interests and the names and addresses of three references by 15 December 1994 to: **Dr. Berish Y. Rubin, Chairman, Department of Biological Sciences, Fordham University, Bronx, NY 10458**. *Fordham University is an Affirmative Action/Equal Opportunity Employer.*

GERIATRICS/GERONTOLOGY POSITION

The Ohio State University College of Medicine is seeking an experienced physician/scientist to establish a multidisciplinary program in Geriatrics/Gerontology. The appointment will be at the **ASSOCIATE PROFESSOR** or **PROFESSOR** level. A primary appointment will be in the department most suitable to accommodate the candidate's field of expertise (Medicine, Neurology, Psychiatry). Interested applicants should send their curriculum vitae and names of three references to: **Jerry R. Mendell, M.D., Chair Search Committee, 1654 Upham Drive, Columbus, OH 43210**. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.*

POSITIONS OPEN

FACULTY POSITIONS MOLECULAR GENETICS

The Departments of Genetics, University of Illinois College of Medicine, is seeking candidates for four faculty positions in (A) mammalian molecular biology and genetics and (B) molecular oncology. The positions, starting on or after July 1, 1995, will be for tenure-track **ASSISTANT PROFESSOR** up to tenured **FULL PROFESSOR** depending upon the candidate's qualifications. Candidates must have a Ph.D. or its equivalent plus postdoctoral research experience in mammalian molecular genetics or related areas (for position A) or in molecular biological research related to cancer (for position B). Areas of special interest for position A include the molecular genetics of human disease and also gene therapy. Candidates working with yeast systems relevant to problems in mammalian molecular biology can be considered. Significant research accomplishments and publications, evidence of outstanding research potential, and success in obtaining external research funding or outstanding potential for such funding, will be key considerations. Applicants should provide a curriculum vitae, names and addresses of four references, and a brief statement of research interests and plans. To receive fullest consideration, applications should be received by December 1, 1994. Send applications to:

**Dr. Richard L. Davidson
Head, Department of Genetics
University of Illinois College of Medicine
808 South Wood Street
Chicago, IL 60612**

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

FACULTY POSITION IN DEVELOPMENTAL BIOLOGY

Applications are invited for a tenure-track position beginning July 1, 1995, at the level of **ASSISTANT PROFESSOR**. Applicants must have a Ph.D., at least two years of postdoctoral experience and a strong publication record. The successful applicant will be expected to establish a vigorous, independent research program and to participate in graduate and undergraduate teaching. We seek applications from individuals whose research addresses basic developmental questions and can interface with the interests of existing faculty. Specific areas include but are not restricted to Transcriptional Regulation, Developmental Neurobiology, Pattern Formation and Developmental Toxicology. Opportunities also exist for research collaborations and participation in one or more interdisciplinary graduate programs. The deadline for applications is January 15, 1994. Applicants for the position should send curriculum vitae, a brief statement of research plans and three letters of recommendation to: **Search Committee, Department of Cell and Molecular Biology, Tulane University, New Orleans, LA 70118**.

Tulane University is an Equal Opportunity/Affirmative Action Employer and encourages minority and female applicants to apply.

ASSISTANT PROFESSORS OF BIOLOGY (THREE POSITIONS)

1. **ANIMAL PHYSIOLOGIST**; 2. **ORNITHOLOGIST**; and 3. **ENTOMOLOGIST**. Tenure-track; begin 15 August 1995. Requires Ph.D. in relevant field; evidence of teaching and scholarly activity; ability to interact and communicate well and acquire grant funding. Teach courses in areas of expertise and general biology. Do research and service. Send letter with goals, curriculum vitae, transcripts, and list of five references by 3 January 1995: (1. **Dr. T. Wenke** or 2. **Dr. E. Fleharty** or 3. **Dr. J. Choate**) **Fort Hays State University, 600 Park, Hays, KS 67601**. Telephone: 913-628-4214; FAX: 913-628-4290.

Affirmative Action/Equal Opportunity Employer: Women/Minorities/Disabled/Veterans encouraged.

BEHAVIORAL ECOLOGIST. ASSISTANT PROFESSOR, tenure-track, beginning fall 1995. Ph.D. required. To teach courses in animal behavior and ecology; participate in introductory biology and college-wide programs; and to develop research program involving undergraduates. Send curriculum vitae, statement of teaching goals, three letters of reference, and transcripts to: **David Jordan, Vice President for Academic Affairs, Austin College, Sherman, TX 75090-4440**. Austin College is a selective undergraduate institution with seven Biology faculty. Review of applications begins December 15, 1994. *Affirmative Action/Equal Opportunity Employer.*

Training Opportunities for MD and PhD Scientists University of Virginia

Applications can be submitted at any time for postdoctoral positions starting July 1, 1995. Persons from under-represented racial/ethnic groups are encouraged to apply to the following NIH programs; funding is limited to US citizens and permanent residents.

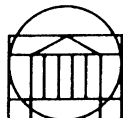
Cell and Molecular Biology of the Urogenital System: Support is available for MD or PhD scientists to study mechanistic aspects of urological diseases in model systems or humans. Faculty sponsors and research themes include:

- R. Chevalier, MD** renin-angiotensin system
- C. Desjardins, PhD** vascular cell biology
- W. Evans, MD** synthesis/secretion: peptide hormones
- C. Flickinger, PhD** cell biology of vasectomy
- R. Gomez, MD** control of renin gene expression
- T. Haystead, PhD** smooth muscle contractile mechanisms
- J. Herr, PhD** molecular biology of spermatogenesis
- B. Hinton, PhD** epididymis: cell and molecular biology
- S. Howards, MD** pathophysiology of varicocele
- R. Murphy, PhD** smooth muscle: signal transduction
- J. Sando, PhD** nuclear signalling: protein kinase C
- W. Steers, MD** neurophysiological control of the bladder
- K. Tung, MD** mechanisms of tolerance and autoimmunity
- T. Turner, PhD** pathophysiology of the testis/epididymis
- J. Veldhuis, MD** neuroendocrinology of gonadal axis

Cellular and Molecular Physiology of Reproduction: Support is available for MD or PhD scientists to study mechanistic aspects of reproduction in model systems or humans. Faculty sponsors and research themes include:

- M. Bruns, PhD** calcitropic hormones in pregnancy
- J. Castle, PhD** regulation of protein secretion
- A. Dalkin, MD** actions of inhibin, activin, follistatin
- R. Day, PhD** transcription: prolactin gene expression
- C. Desjardins, PhD** microvessels and steroidogenesis
- W. Evans, MD** luteinizing hormone synthesis/secretion
- C. Flickinger, MD** cell biology of vasectomy
- R. Foster, PhD** circadian physiology of reproduction
- D. Haisenleder, PhD** neural control of gonadotropes
- M. Hanigan, PhD** drug resistance: ovarian tumors
- J. Herr, PhD** molecular biology of spermatogenesis
- B. Hinton, PhD** epididymis: cell and molecular biology
- M. Johnson, PhD** hormone secretion: math models
- I. Login, MD** pituitary secretory function
- J. Marshall, MD** gonadotropin subunit gene expression
- M. Menaker, PhD** circadian control of reproduction
- E. Rissman, PhD** GnRH neurons: environmental cues
- M. Shupnik, PhD** transcription: gonadotropin genes
- M. Thorne, MD** pituitary cells: neural hormone actions
- K. Tung, MD** mechanisms of tolerance and autoimmunity
- T. Turner, PhD** testis/epididymis microenvironment
- J. Veldhuis, MD** hormone action on granulosa cells
- J. White, PhD** mechanisms of sperm-egg binding

Inquiries: Claude Desjardins, Medical Center Box 391, University of Virginia, Charlottesville, VA 22908. Telephone: 804-982-4310, F924-8785, Email: reprod@virginia.edu.



JPL/NASA Visiting Senior Scientist Astrophysics Division – High Energy Astrophysics

The Jet Propulsion Laboratory invites applications to the Visiting Senior Scientist Program in the High Energy Astrophysics Branch of the Astrophysics Division at NASA Headquarters to assist in planning and budgeting, organizing peer reviews, administering research grants, liaison with the scientific community, mission planning and other branch duties. Current activities in the High Energy Astrophysics Branch include a Research and Analysis grants program, a suborbital flight program, on-going and developing space missions using free-flying satellites and international missions of opportunity. Current flight programs in orbit, in development, or in planning include ROSAT, Compton Gamma Ray Observatory, ASCA (Astro-D), X-ray Timing Explorer, SAC-B, High-Energy Transient Experiment, Spectrum-X Gamma, Astro-E, the Advanced X-ray Astrophysics Facility, and INTEGRAL. The position is to be filled by a scientist from outside NASA who will report to the Branch Chief for High Energy Astrophysics, Dr. Alan Bunner. A Ph.D. degree (or equivalent research experience) in X-ray astronomy or gamma-ray astronomy or a closely related discipline is desired. Tenured faculty investigators are the preferred choice. Familiarity with X-ray and/or gamma-ray astronomy and the associated technology is a plus.

Appointees are also expected to pursue their research at some level, and monthly two-day visits to their home institution are supported as are conference and other research-related travel and publication costs. For more information about the program and responsibilities, contact Dr. Alan Bunner at NASA Headquarters (202) 358-0341.

Qualified individuals from non-profit research institutions may be considered, but tenured faculty members are the preferred choice. Normal assignment in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. Citizens or Permanent Residents, and are expected to return to their home institution following their NASA assignment. Please provide curriculum vitae, bibliography and the names of four references to:

Dr. Frederick Shair, M/S 183-900
Jet Propulsion Laboratory
4800 Oak Grove Drive, Pasadena, CA 91109
(818) 354-8251
 An Equal Opportunity Employer M/F



Jet Propulsion Laboratory
 California Institute of Technology

MEDICAL COLLEGE OF PENNSYLVANIA AND HAHNEMANN UNIVERSITY Graduate School

*The consolidation
of Medical College
of Pennsylvania and
Hahnemann University
means increased
opportunities for students
in the basic biomedical
sciences and health-related
fields. Tuition scholarships
and stipends for Ph.D. and
M.D./Ph.D. students are
available for qualified
applicants.*

BASIC BIOMEDICAL SCIENCES:

- *Ph.D. Programs:* Anatomy and Neurobiology, Biochemistry, Microbiology and Immunology (also M.S.), Molecular and Cell Biology (also M.S.), Molecular Pathobiology, Neuroscience, Pharmacology (also M.S.), Physiology, Radiation Sciences (also M.S.), and M.D./Ph.D.

HEALTH SCIENCE PROFESSIONS:

- *Master's Programs:* Creative Arts in Therapy (Art, Movement, Music), Clinical Microbiology, Emergency Medical Services, Family Therapy, Group Process and Group Psychotherapy, Laboratory Animal Science, Nurse Anesthesia, Entry-Level Physical Therapy and Advanced Physical Therapy with specialization in Orthopedics or Pediatrics.
- *Ph.D. Programs:* Clinical Psychology, Law/Psychology, Advanced Physical Therapy with specialization in Orthopedics or Pediatrics, and M.D./Ph.D.

Medical College of Pennsylvania
 and Hahnemann University
 Graduate School
 Broad & Vine, M.S. 480
 Philadelphia, PA 19102-1192
 (215) 762-1155

POSITIONS OPEN

PLANT POPULATION/COMMUNITY ECOLOGIST

The Department of Biology at Washington University invites applicants for a tenure-track appointment at the **ASSISTANT PROFESSOR** level, to begin in September 1995. The candidate is expected to develop an active research program in plant population and/or community ecology and to teach courses at the undergraduate and graduate level. Candidates should have a Ph.D. degree, postdoctoral experience, evidence of significant research accomplishments, and a commitment to excellent teaching. Letters of application should be accompanied by a curriculum vitae, brief statements of research and teaching interests, and selected reprints. Applicants should also arrange to have three letters of recommendation sent to:

Plant Ecologist Search Committee
Department of Biology
Campus Box 1137
Washington University
St. Louis, MO 63130-4899

All applications should be postmarked no later than December 1, 1994. *Washington University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITIONS IN CELL AND MOLECULAR BIOLOGY

The Department of Biology at the University of Houston invites applications for two tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The positions require a Ph.D. degree and postdoctoral experience. We wish to recruit faculty members with research interests in areas including but not limited to neuroscience, developmental biology, genetics and microbiology, to join an expanding program in cell and molecular biology. The faculty member will be expected to develop a nationally competitive research program, participate in graduate training, and contribute to undergraduate teaching. The Department has spacious labs with state-of-the-art equipment and encourages active research collaborations among its faculty. Review of applications will begin by December 1, 1994. Please submit curriculum vitae, statement of research plans and have three letters of reference sent to: **Dr. Joseph Eichberg, Chair, Search Committee, Department of Biology, University of Houston, Houston, TX 77204-5513.** *University of Houston is an Equal Opportunity/Affirmative Action Employer. Minorities, woman, veterans, and persons with disabilities are encouraged to apply.*

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 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 30, 1994.

FISH ECOLOGY AND MANAGEMENT

We invite applications for a position as a **RESEARCH ASSISTANT PROFESSOR** to develop independent, externally funded research programs with an emphasis on the Great Lakes, to work with fisheries management agencies and the public, and to participate in graduate teaching and advisement. Ph.D. in fish ecology or related field required. Initial three year appointment with potential for renewal. Send curriculum vitae and names of three references to: **Dr. Stephen Brandt, Great Lakes Center, SUNY College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222.** Review of applications will begin December 1, 1994. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR MOLECULAR CELL BIOLOGY

The Department of Biology at the College of William & Mary invites applications for an entry-level, **TENURE-TRACK FACULTY POSITION**. The person we seek must be highly qualified to teach cell biology. Special emphasis will be placed on the ability of the candidate to communicate effectively to large classes of students. We particularly encourage applications from individuals doing research in molecular aspects of cell biology who could also offer upper-level courses in that area. In addition to a commitment to excellence in teaching, the successful applicant will be expected to establish a vigorous extramurally funded research program. The university has an enrollment of 7,700 students among five schools of which 5,400 are undergraduate. The department has 20 faculty and offers training through the master's level. Preference will be given to applicants with significant postdoctoral experience. Applicants should include curriculum vitae with publication list, a statement of teaching and research interests, and the names, addresses, telephone and FAX numbers of three individuals willing to submit letters of reference on request. Application materials should be sent to: **Margaret S. Saha, Chair, Search Committee, Department of Biology, College of William & Mary, Williamsburg, VA 23187.** Evaluation of applications will begin December 20, 1994, and will continue until the position is filled. *The College of William & Mary is an Equal Opportunity/Affirmative Action University. Members of underrepresented groups (including people of color, persons with disabilities, Vietnam veterans and women) are encouraged to apply.*

ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Biology, University of California, Riverside, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level, available July 1, 1995, with duties commencing in September. We are particularly interested in candidates with a Ph.D. in Molecular Biology or related disciplines and at least two years of postdoctoral experience. We seek an individual who will establish an independent research program addressing fundamental questions related to the regulation of DNA replication, gene expression, or protein synthesis, and employing the tools of modern molecular biology such as recombinant DNA and transgenic approaches. The successful candidate will be expected to contribute to graduate student training and participate in undergraduate instruction. Opportunities are also available for membership in the Interdepartmental Genetics Graduate Program. Applicants should forward a curriculum vitae, statement of research and teaching interests, and arrange for three letters of reference to be sent by January 20, 1995, to: **Molecular Biology Search, Department of Biology, University of California, Riverside, CA 92521.** Address Email inquiries to: **BHYMAN@UCRACI.UCR.EDU.** *UC Riverside is an Affirmative Action/Equal Opportunity Employer.*

BIOLOGY. Entry level **ASSISTANT PROFESSOR**, tenure-track position with major teaching responsibility in general biology. A commitment to teaching at the undergraduate level is essential; teaching and research interests in biology/plant ecology desired. Ph.D. required, teaching load 15 credit hours per quarter. To begin September 1995. Augusta College is a 5,700 student, senior unit of the University System of Georgia. Application deadline 15 December 1994. Send curriculum vitae, a statement of teaching philosophy, and names, addresses, and telephone numbers of three references to: **Dr. Bruce Saul, Department of Biology, Augusta College, Augusta, GA 30904-2200.** *Augusta College is an Affirmative Action/Equal Opportunity Institution and specifically invites and encourages applications from women and minorities*

NEUROPHARMACOLOGIST

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

POSITIONS OPEN

MICROBIOLOGIST DEPARTMENT OF BIOLOGY CENTRAL MICHIGAN UNIVERSITY

The Department of Biology at Central Michigan University invites applications for a ten-month, tenure-track faculty position in microbiology at the **ASSISTANT PROFESSOR** level to begin August 1995. A Ph.D. in microbiology is required. Postdoctoral research experience is preferred. Preference will also be given to individuals with an expertise in environmental or medical microbiology. The successful candidate will be expected to participate in undergraduate (general microbiology) and graduate teaching, to establish an active research program, and to secure extramural funding. Application review will begin December 16, 1994. Send curriculum vitae, statement of teaching interests, research objectives, graduate and undergraduate transcripts, and three letters of reference to: **Microbiology Search Committee, Department of Biology, Central Michigan University, Mt. Pleasant, MI 48859.** FAX: 517-774-3462.

Central Michigan University (Affirmative Action/Equal Opportunity Institution) encourages diversity and resolves to provide equal opportunity regardless of race, sex, disability, sexual orientation or other irrelevant criteria.

STANFORD UNIVERSITY—ECOLOGIST/ EVOLUTIONARY BIOLOGIST

The Department of Biological Sciences seeks an Ecologist or Evolutionary Biologist. This tenure-track position will be filled at the **ASSISTANT PROFESSOR** level.

Applications from women and members of minority groups are strongly encouraged. Applicants for this position should send a letter of application, statements of research interests and teaching experience, curriculum vitae, two papers or manuscripts, and names and addresses of three referees directly to:

Ecology/Evolution Search Committee
Department of Biological Sciences
Gilbert Room 109
Stanford University
Stanford, CA 94305-5020

The closing date for these applications is December 1, 1994.

INVERTEBRATE BIOLOGIST

The Biology Department of the University of Scranton invites applications for a **TENURE-TRACK ASSISTANT PROFESSOR** position in Invertebrate Biology, starting in August 1995. Applicants must have a Ph.D. and postdoctoral experience is desirable. The successful candidate will contribute to the General Biology course for majors; teach one course in physiology, ecology or genetics; and develop an upper division course in Invertebrate Biology. Excellence in teaching, and maintenance of an active research program that will involve undergraduates are expected. The University of Scranton is a selective Catholic and Jesuit institution of 5,000 students, located in northeastern Pennsylvania near the Pocono Mountains. The University is committed to liberal arts education and offers strong professional and pre-professional programs. The University of Scranton is a regional university of national prominence. Submit curriculum vitae, a statement of teaching and research interests, and three letters of reference by 9 January 1995 to: **Dr. Michael Carey, Search Committee Chair, Biology Department, University of Scranton, Scranton, PA 18510-4625.** *The University of Scranton is an Affirmative Action/Equal Opportunity Employer/Educator.*

ENVIRONMENTAL MOLECULAR TOXICOLOGIST

The Department of Biology, Seton Hall University, invites applications for a Clare Booth Luce tenure-track position at the **ASSISTANT PROFESSOR** level for the fall of 1995. Only women applicants with U.S. citizenship are eligible. The applicant must have a Ph.D. and relevant postdoctoral experience. The successful candidate will be expected to teach undergraduate environmental toxicology for majors, environmental biology for non-majors and graduate molecular toxicology. Applicants are expected to maintain an active, independent research program. Send curriculum vitae, description of research interests and three references on or before 15 December 1994 to: **Chair, Search Committee, Department of Biology, Seton Hall University, 400 South Orange Avenue, South Orange, NJ 07079.** *Seton Hall University offers a smoke-free work environment. Equal Opportunity/Affirmative Action Employer.*

THE NATIONAL RESEARCH COUNCIL Postdoctoral & Senior Research Associateship Awards

Opportunities for research in:

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- 400 awards for independent research at 110 laboratories within 31 participating U.S. Government agencies
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 - Support for relocation and professional travel; health insurance program offered
 - 3 annual award competitions for most participating laboratories
- *****

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

For application materials and information on participating laboratories contact:

The National Research Council



**The Associateship Programs
(TJ-2094/SB)**
2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759

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

Ph.D. Senior Scientist

RPI, a leader in the development of ribozyme-based pharmaceutical and agricultural products, is currently seeking a Ph.D. level Senior Scientist to join our Drug Delivery group in our facility in Boulder, Colorado.

The position requires 5+ years' postdoctoral or pharmaceutical experience in the delivery of biopharmaceuticals. You will be expected to lead the Drug Delivery group and devise research programs to increase the efficacy of our therapeutic ribozymes. A strong background in both biophysical chemistry and cell biology is required, along with management experience.

We offer a competitive salary and benefits package, including a stock option plan. For consideration, please send a *Curriculum Vitae* and the names of three references to: Ribozyme Pharmaceuticals, Inc., Dr. Nassim Usman, Director of Chemistry & Biochemistry Research, 2950 Wilderness Place, Boulder, Colorado 80301. FAX: 303-449-6995. We are an equal opportunity employer.



**RIBOZYME
PHARMACEUTICALS,
INCORPORATED**

**THE SANTA FE INSTITUTE
announces**

COMPLEX SYSTEMS STUDIES in Santa Fe, Summer, 1995

For graduate students and postdoctoral fellows, the **Eighth Annual Complex Systems Summer School** is an intensive introduction to "complex" behavior in mathematical, physical, and living systems. Topics include chaos, adaptive computation, complexity and economics, evolution and the immune response, stochastic processes in complex systems, and plant ecosystems. Introductory "Tool-kit" sessions. Interactive format encourages group and individual research projects. Computer laboratory. Tuition support.

NSF's **Research Experiences for Undergraduates Program** at SFI enables a select number of undergraduates to work with faculty mentors on individual projects focusing on the computational properties of complex systems. Projects focus on adaptive computation; on the physics, mathematics, information science, and computational aspects of complexity; on economics as a complex adaptive system; and on the life sciences including modeling of the immune system, theoretical neurobiology, genetic data analysis, theoretical ecology, and models of protein folding.

Minorities and women are encouraged to apply. Further information from:

Kimberly Bodelson
Santa Fe Institute
1399 Hyde Park Road
Santa Fe, NM 87501
505-984-8800; fax 505-982-0565
e-mail: education@santafe.edu

CELL BIOLOGY

The Department of Cell Biology in the Schools of Medicine and Dentistry at UAB invites applications for two full-time, tenure-track position 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 23, 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.*

POSITIONS OPEN

PLANT CELL BIOLOGIST

Wake Forest University plans to fill a tenure-track position at the **ASSISTANT PROFESSOR** level; the specific area of expertise is open. Applicants should have postdoctoral experience, a record of research accomplishments, and demonstrated excellence in both teaching and research. Teaching responsibilities will include an upper-level undergraduate/graduate course in Cell Biology, as well as participation in the undergraduate core course in Cell and Molecular Biology. Participation at the graduate level includes direction of M.S. and Ph.D. students. Interaction is available with active cell and plant science interest groups. Applicants should provide a curriculum vitae and three letters of recommendation. The résumé should include a description of research plans and objectives, and because of our commitment to excellence in teaching, a detailed description of teaching goals and experience. All materials should be sent to: **Dr. M. J. Jaffe, Plant Cell Biology Search, Department of Biology, P.O. Box 7325, Wake Forest University, Winston-Salem, NC 27109** no later than January 3, 1995. *Wake Forest University is an Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION DEPARTMENT OF BIOLOGY UNIVERSITY OF OREGON

The Department of Biology at the University of Oregon invites applicants for a tenure-track faculty position with joint membership in the Institutes of Molecular Biology and Neuroscience. We seek individuals using genetics (including genomics) to address questions in development, neural function, or behavior at a molecular level. Although we are primarily interested in applicants at the **ASSISTANT PROFESSOR** level, we will consider more senior applicants. The successful applicant will have demonstrated the potential for excellence in both research and teaching. Applicants should submit, by December 9, 1994, a curriculum vitae (including teaching experience), a bibliography, and a statement of research interests and plans. Applicants should also have four letters of recommendation sent to: **Molecular Biology/Neuroscience Search Committee, Department of Biology, 1210 University of Oregon, Eugene, OR 97403-1210.** *The University of Oregon is an Equal Opportunity/Affirmative Action Employer committed to compliance with the ADA and cultural diversity. We encourage women and minorities to apply.*

EVOLUTIONARY BIOLOGIST UNIVERSITY OF VIRGINIA

The Department of Biology of the University of Virginia seeks an individual of outstanding promise to fill a new tenure-track position of **ASSISTANT PROFESSOR** as we continue to build strength in the broadly defined field of Evolutionary Biology. The successful candidate will be expected to have an innovative research program and to participate in graduate and undergraduate teaching. Mountain Lake Biological Station, a facility of the Department, offers research opportunities and colleagues in addition to those in Charlottesville.

Candidates should submit a curriculum vitae, the names and addresses of three references, and statements of teaching and research interests by January 1, 1995, to: **Prof. Henry M. Wilbur, Department of Biology, Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** *Women and minorities are encouraged to apply and identify themselves. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.*

AMERICAN UNIVERSITY IN CAIRO. Applications are invited for one faculty opening at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level for a specialist in Applied Solid State Physics (optoelectronics, laser applications, superconductivity) with background and interest in philosophy and history of science to teach, in English, courses in applied solid state physics, general physics, and a university-wide course on scientific thinking. Background in liberal arts education in a North American context is preferred. Ph.D. required. Two-year appointment (renewable) begins September 1995. Rank, salary according to qualifications and experience. For expatriates, housing, roundtrip air travel, plus schooling for two children included. Send letter of application with curriculum vitae to: **Dean Amr Abdel-Hamid, The American University in Cairo, 866 United Nations Plaza, Suite 517-H, New York, NY 10017**, before December 1, 1994.

POSITIONS OPEN

ASSISTANT PROFESSOR OF ANATOMY

One tenure-track, 12-month faculty position at the **ASSISTANT PROFESSOR** rank. The initial contract is for two years and can begin January 1, 1995. Applicants must have a Ph.D. in Anatomy and a commitment to teaching. The major teaching would be in Gross Anatomy to Medical and Physical Therapy Students.

As required by the Immigration Control act, you must be able to provide documentation verifying the right to work in the United States.

Applicants should send a curriculum vitae and three letters of recommendation to:

**Rafi Younoszai, Ph.D.
Chair, Search Committee
College of Osteopathic Medicine of the Pacific
309 East 2nd Street
Pomona, CA 91766-1889**

The College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minorities.

IMMUNOBIOLOGY/MOLECULAR GENETICS UNIVERSITY OF MIAMI

The Division of Hematology/Oncology, a component of the NIH-funded Sylvester Comprehensive Cancer Center seeks an **ASSISTANT or ASSOCIATE PROFESSOR** with laboratory experience and skills in cancer immunology or molecular genetics. The Division is expanding its translational research to increase the linkage of its clinical research programs in breast cancer, gene transfer therapy, lymphoma and bone marrow transplantation with well-established basic science efforts in immunobiology and cell surface receptor modulation of malignant cell proliferation and metastases. Either Ph.D. or M.D. candidates will be considered for these positions. Please send a curriculum vitae, a cover letter describing your research interests, and the names, addresses, and telephone numbers of three potential references to: **Peter A. Cassileth, M.D., Chief, Hematology/Oncology Division, University of Miami/Sylvester Cancer Center, 1475 N.W. 12th Avenue (D8-4), Miami, FL 33136.** *The University of Miami is an Equal Opportunity Employer.*

DEPARTMENT OF CHEMISTRY and BIO-CHEMISTRY, University of Maryland at College Park invites applications for a tenure-track or tenured position in **BIOCHEMISTRY.** Candidates at all levels will be considered, and applications at the **ASSOCIATE or FULL PROFESSOR** level are especially encouraged. Research areas of particular interest include, but are not limited to: protein folding and design, structure-function relations pertaining to signal transduction, gene expression, immunochemistry, cell-cell interactions, etc., and protein secretion. Candidates will also have the opportunity to participate in the campus-wide Program in Molecular and Cell Biology. Submit a résumé, a short description of research plans, and arrange for three letters of reference to be sent to: **Prof. Douglas A. Julin, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021.** Evaluations begin on November 1, 1994, but new applications will be considered until the position is filled. *University of Maryland, College Park, encourages applications from women and members of minority groups and is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION: Applications are invited for a tenure-track position (beginning August 1995) at the **ASSISTANT PROFESSOR** level in the area of Developmental Biology. Individuals with broad training in plant biology and whose research uses a plant system to study a developmental problem at the molecular level are particularly encouraged to apply. Teaching responsibilities will depend upon experience and may include developmental biology, genetics, or cell physiology in addition to an upper division specialty course. Participation in introductory courses also will be required. Development of an active research program involving undergraduate students is expected. Ph.D. (or equivalent) required; postdoctoral experience preferred. Please submit letter of interest, curriculum vitae, teaching and research statements, and request three letters of reference to be sent to: **Dr. Darwin Jorgensen, Chair, Biology Department, Roanoke College, Salem, VA 24153.** Telephone: 703-375-2465. To assure full consideration, materials should be received by December 14, 1994. *An Equal Employment Opportunity/Affirmative Action Employer. Women and members of minority groups are especially encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR—BIOPHYSICS

The Department of Physics, Illinois Benedictine College, is planning to hire a tenure-track **ASSISTANT PROFESSOR** for fall 1995. Ph.D. required with a research interest in molecular modeling. Duties include: teaching introductory physics for life/health science majors, course development in biophysics, establishing and participating in faculty/student research programs in biophysics and molecular modeling.

Illinois Benedictine College is a liberal arts college located in the research corridor of metropolitan Chicago with nationally recognized programs in the sciences. Initially, applicants should send curriculum vitae and a statement of teaching and research interests by November 23, 1994, to: **Dr. Duane Buss, Chairman, Search Committee, Illinois Benedictine College, 5700 College Road, Lisle, IL 60532.** Telephone: 708-960-1500 x1562. *Illinois Benedictine College is an Affirmative Action/Equal Opportunity Employer; women and minority candidates are especially encouraged to apply.*

ASSISTANT PROFESSOR ORGANISMAL BIOLOGY

The Department of Biology, University of California, Riverside invites applications for a **TENURE-TRACK POSITION** in animal organismal biology. We seek an individual interested in mechanisms of animal function from an ecological/evolutionary perspective. Preferred research areas are (1) behavioral neurobiology with an organismal or systems focus; (2) biomechanics or functional morphology; (3) nutritional physiology. Applicants should have at least one year of postdoctoral training, demonstrated excellence in research, and a commitment to teaching both undergraduate and graduate students. The appointment is effective July 1, 1995, with duties commencing in September. To apply, send curriculum vitae, statement of research and teaching interests, copies of representative publications, and three letters of recommendation by January 20, 1995, to: **Organismal Biology Search Committee, Department of Biology, University of California, Riverside, CA 92521.** *UC Riverside is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF BIOLOGY, tenure-track position to begin August 1995. We seek a colleague with primary responsibilities in development, coordination and regular participation in team-taught introductory biology. Applicants should be focused toward innovative approaches in both introductory lab and lecture. Pursuit of scholarly activities and publication in appropriate outlets are expected. Plant scientists are encouraged to apply. Ph.D. required. Send curriculum vitae, statement of professional goals, representative reprints and three letters of reference to: **Dr. Omer R. Larson, Search Committee, Department of Biology, Box 9019, University of North Dakota, Grand Forks, ND 58202.** Review of applicants will begin 6 January 1995. *An Equal Opportunity/Affirmative Action Employer.*

MOLECULAR BIOLOGIST

For fall 1995, tenure-track **ASSISTANT PROFESSOR** of Molecular Biology. Responsibilities include teaching immunology, developmental biology, part of general biology, senior seminar, and academic advising. Required: Ph.D., strong commitment to teaching at undergraduate level and to engaging students in research. Send letter, curriculum vitae, three letters of reference postmarked by February 1, 1995, to: **Professor Karen Swearingen, Biology Department, Mills College, Oakland, CA 94613.**

Founded in 1852, Mills is a liberal arts college for women offering 33 majors and 18 graduate programs (including post-baccalaureate/pre-medical) on a 135-acre campus in the diverse city of Oakland. *Women and persons of color encouraged to apply. Affirmative Action/Equal Opportunity Employer.*

SCIENCE EDUCATION tenure-track position(s)—one or two (**ASSISTANT or ASSOCIATE PROFESSOR**). Must hold doctorate specializing in Science Education and science coursework to at least Master's level; potential for effective teaching, productive scholarly effort, and ability to communicate effectively on diverse campus all required. Further information: **William Ritz, Director, Science Education Program, California State University, Long Beach, CA 90840.** Telephone: 310-985-4801; Email: WCRitz@CSULB.edu; FAX: 310-985-2315.

Postdoctoral Research at The Wistar Institute

The Wistar Institute offers Postdoctoral training in Molecular Genetics, Virology, Cell & Molecular Biology, Developmental Biology, Immunology, and Structural Biology. Fellows can anticipate a stimulating and challenging experience in an environment characterized by strong, interdisciplinary collaboration and state-of-the-art biotechnology.

Wistar is an independent, non-profit biomedical research institution with close collaborative relationships with the University of Pennsylvania and other major research and clinical organizations within the Philadelphia region. The Wistar Institute is an NIH-designated Basic Cancer Research Center.

Eligible fellows will be funded by a training grant awarded by the National Cancer Institute of the National Institutes of Health. We have an active minority recruitment program and strongly encourage minority candidates to apply.

Interested Postdoctoral applicants are requested to send a C.V. and the names of three (3) references to the **Coordinator of Research Training, THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104.** EOE, M/F/D/V.



DIRECTOR, Clinical Sciences *Give your future a new perspective at Datascope!*

Datascope Corp., is a success oriented company with an eye on the future. Our dedication to excellence in the manufacture of patient monitoring systems and cardiac assist products has created a technically challenging environment that motivates and recognizes achievement. If you're the kind of professional who thrives in such a setting, we invite you to consider this newly created position.

Based at our Montvale, NJ headquarters, the successful candidate will be responsible for providing overall scientific guidance and direction for proposed clinical studies. Specific duties will encompass: reviewing drafts of clinical protocols, case report forms, clinical study reports, etc. to ensure scientific soundness; reviewing/prioritizing clinical projects; assisting in responding to product submission FDA/governmental questions concerning clinical trial issues; and participating in clinical trial and departmental financial planning as well as related budget management. Approximately 20% travel is involved.

To be considered, you must possess 6-8 years of related medical device manufacturing and/or academic experience and, preferably, a Ph.D. in biological or pharmacological science. Previous FDA/PMA or drug approval experience, strong biostatistical skills, and excellent communication skills are essential pre-requisites of this position. Solid knowledge of cardiovascular anatomy and physiology is preferred.

This position offers an attractive compensation and benefits package as well as on-going professional challenge.

For consideration, please forward your resume with salary requirements in confidence to: **Manager, Human Resources, Dept. DCS, Datascope Corp., 14 Philips Parkway, Montvale, NJ 07645.** We appreciate your interest, but only those candidates who best meet our requirements will be contacted. We are an equal opportunity employer committed to a smoke free workplace.

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Challenges For Life

THE UNIVERSITY OF LEEDS

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY AND DEPARTMENT OF GENETICS

RESEARCH FELLOWS—2 POSTS

The above BBSRC funded posts are available immediately for a fixed period of up to 3 years to work on the structure of photosystem II (Nature 363, 470-472). One post will be based at the University of Leeds, the other at UMIST in Manchester.

A PhD or equivalent qualification is required. Research experience in membrane protein biochemistry and/or electron microscopy and image analysis is sought, although applicants with a background in X-ray crystallography will also be considered.

Starting salary will be on the scale for Research Staff Grade IA within the range £13,941-£15,566 according to qualification and relevant experience.

Informal Enquiries about the post may be made to Dr. A. Holzenburg, tel +44 053 233 2590 or Dr. R. Ford tel+ 44 061 200 4187.

Application forms and further particulars may be obtained from the Personnel Office (Academic Section), The University of Leeds, Leeds LS2 9JT, tel 0532 335771, e-mail j.m.cox@registry.leeds.ac.uk quoting the reference number 83/159.

Closing date for applications 25 November 1994.

The University of Leeds promotes an equal opportunities policy.

GERI

한국 생명공학분야 연구의 중추적 역할을 수행해온 유전공학 연구소 (Genetic Engineering Research Institute, KIST)는 정부의 1994년도 '생명공학 도약의 해' 선언과 함께 국제적 생명공학 연구소로의 발전을 목표로 아래와 같이 전문인력을 초빙합니다.

1. 초빙분야 및 자격

Neurobiology
Glycobiology
Pharmacological Evaluation of New Drug (이상 3분야 박사후 5년이상 경력자)
Biochemical Engineering (Pilot Plant)
Natural Product Chemistry
Molecular Genetics of Yeast
Signal Transduction, Transcription (이상 4분야 Post-Doc. 이수자)

2. 초빙인원 : 각분야 약간명

3. 제출서류

이력서
Publication List
Essay 1부 (관심분야, 향후 연구활동 계획 등)

4. 제출할 곳

유전공학연구소 총무과
P.O. Box 115, YUSONG
TAEJON, KOREA (305-333)
TEL. 042-860 4022 FAX. 042-861-1759

5. 제출기한

1994년 12월 31일 까지

Molecular Diagnostics

Sr. Research Scientist

Bio-Rad Laboratories is a world leader in the fields of life science research products, clinical diagnostics and analytical instruments. Our continued growth has created a need for a dynamic scientific professional to work in our Molecular Diagnostics Division.

The successful candidate will have an MS or PhD in Molecular Biology or Biochemistry with 3+ years experience in nucleic acid technology and DNA amplification methodology. Experience in product development and strong writing skills desired.

For consideration, please send your resume to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 565, Hercules, CA 94547. EOE MFDV.

BIO-RAD

Bio-Rad Laboratories

POSITIONS OPEN

MOLECULAR MICROBIOLOGIST UNIVERSITY OF NEBRASKA

Biological Sciences invites applications for a tenure-track **ASSISTANT PROFESSOR** position with research emphasis in lower eukaryote or prokaryote molecular biology. Development of a vigorous research program and participation in quality undergraduate and graduate instruction is expected. Candidates with a Ph.D. and postdoctoral experience can apply by sending a curriculum vitae, statement of research interest and arrange for three letters of reference to be sent by December 30, 1994, to: **Dr. Ken Nickerson, Search Chair, School of Biological Sciences, University of Nebraska-Lincoln, Lincoln, NE 68588-0118.** The position will be open until a suitable candidate is selected. *University of Nebraska-Lincoln is committed to a pluralistic campus community through Affirmative Action/Equal Opportunity and is responsive to the needs of dual career couples. We assure reasonable accommodation under ADA; contact Dr. T. Jack Morris at the above address.*

The Division of Endocrinology and Metabolism and the Department of Biological Chemistry at the University of California, Irvine (UCI), invite applications and nominations for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Candidates should have expertise in molecular and cellular approaches to the study of the endocrine system. Applicants must have an M.D. degree and either a Ph.D. degree or extensive research training. A strong record of research accomplishments with the potential to develop an independent research program is highly desirable. This joint recruitment effort reflects a commitment to excellence in molecular biochemistry and endocrinology and to promoting a fertile environment for interactive research at UCI and affiliated institutions.

Interested applicants should submit their curriculum vitae and a statement of research interest, and arrange for at least three references to be sent to: **Dr. Murray Korc, Chief, Division of Endocrinology and Metabolism, University of California at Irvine, Irvine, CA 92717-4086.** *UCI is an Affirmative Action/Equal Opportunity Employer.*

UNIVERSITY OF KENTUCKY SCHOOL OF BIOLOGICAL SCIENCES FACULTY TEACHING POSITIONS

The T. H. Morgan School of Biological Sciences invites applications for two tenure-track positions that we anticipate filling at the **ASSISTANT PROFESSOR** level in the fall of 1995. Primary teaching responsibilities will be in introductory biology coursework. Possible involvement in mid-level and advanced undergraduate courses. Classroom experience and commitment to excellent undergraduate education are essential. Please send a curriculum vitae, a statement of teaching interests and the names of three references by November 30, 1994, to: **Dr. William S. Cohen, Chair, Search Committee, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225.**

An Equal Opportunity/Affirmative Action Employer.

LANDSCAPE ECOLOGIST

We seek a broadly trained individual to fill a position as a **RESEARCH ASSISTANT PROFESSOR** to develop independent research programs with a Great Lakes emphasis in areas such as lake and coastal habitats, watersheds or urban environments, and to participate in graduate teaching and advisement. Area of specialty is open, but preference will be given to those able to integrate questions at the ecosystem level (including human influences) and with experience in GIS or spatial modeling. Ph.D. in landscape ecology or related field required. Initial three-year appointment with potential for renewal. Send curriculum vitae and names of three references to: **Dr. Stephen Brandt, Great Lakes Center, SUNY College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222.** Review of applications will begin December 1, 1994. *An Equal Opportunity/Affirmative Action Employer.*

PRESIDENT

NEW MEXICO STATE UNIVERSITY is seeking a strong administrator with academic credentials and management skills required to effectively lead a large, comprehensive land-grant university and administer research and educational programs worldwide.

Submit applications by January 1, 1995, to: **Presidential Search Committee, Box 30001, Department 3923, Las Cruces, NM 88003, USA.**

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY

The Basic Sciences Division invites applications for a tenure-track, 12-month faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D. in biochemistry and a commitment to teaching. The candidate is expected to teach medical biochemistry to first- and second-year osteopathic medical students and students enrolled in the physician assistant certificate program. Send curriculum vitae, statement of teaching goals, three letters of reference, and transcripts to: **Lee R. Grunden, Ph.D., Chair, Biochemistry Search Committee, College of Osteopathic Medicine of the Pacific, 309 East Second Street, Pomona, CA 91766-1889.** *The College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minorities.*

ASSISTANT PROFESSOR in ORGANIC CHEMISTRY at Iowa State University. Applications are invited for this position which will become available August 21, 1995. Candidates with outstanding potential and commitment to both research and teaching are sought to join a faculty with a strong tradition of excellence. Applicants should submit a curriculum vitae, copies of transcripts of undergraduate and graduate studies, and a one- or two-page summary of research plans accompanied by more detailed proposals, to: **Professor Walter S. Trahanovsky, Chair of Organic Search Committee, Department of Chemistry, 2659 Gilman Hall, Iowa State University, Ames, IA 50011-3111.** Applicants should arrange for at least three letters of recommendation to be sent. Women and minority candidates are encouraged to apply. Review of applications will begin December 1, 1994. *Iowa State University is an Affirmative Action/Equal Opportunity Employer.*

COMPARATIVE PHYSIOLOGIST

Muhlenberg College invites applicants for a tenure-eligible **ASSISTANT PROFESSOR** position beginning fall 1995, pending budgetary approval, in the Biology Department. The candidate will be expected to teach courses in comparative physiology, an advanced course in his/her area of expertise, and possibly comparative anatomy. Ph.D. required. Excellence in teaching expected as is an active research program involving undergraduates. Muhlenberg is a church-related liberal arts college located one hour north of Philadelphia. Apply by sending your curriculum vitae, a statement of your teaching philosophy and research goals, and three letters of reference to: **Dr. Carl Oplinger, Biology Department, Muhlenberg College, 2400 Chew Street, Allentown, PA 18104-5586.** Application review begins November 15, 1994. *An Equal Opportunity Employer, we encourage applications from minority and women candidates.*

PHYTOPLANKTON ECOLOGIST

The Horn Point Environmental Laboratory of the University of Maryland Center for Environmental and Estuarine Studies invites applications for a tenure-track **ASSISTANT PROFESSOR** available July 1995. We seek a Ph.D. biological oceanographer whose primary research interest is the production dynamics of phytoplankton. Preference will be given to candidates with expertise in optical oceanography and modeling. The successful candidate will be expected to establish a strong research program and participate in graduate education. Send cover letter, résumé, and name/address of four references to: **Chair, Phytoplankton Search Committee, HPPEL, P.O. Box 775, Cambridge, MD 21613.** Application deadline January 15, 1995.

AQUATIC ECOLOGIST

We seek a broadly trained individual with experience in large lakes or marine systems for a tenure-track **ASSISTANT PROFESSORSHIP**. Preference given to those able to integrate questions at the organismal, population, and ecosystem levels. The successful candidate will develop externally funded research programs with an emphasis on Great Lakes ecology, teach and advise graduate, and on occasion, undergraduate students, and help administer research and education at the Great Lakes Center. Ph.D. in aquatic ecology or related field required. Send curriculum vitae and names of three references to: **Dr. Stephen Brandt, Great Lakes Center, SUNY College at Buffalo, 1300 Elmwood Avenue, Buffalo, NY 14222.** Review of applications will begin December 2, 1994. *An Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

DIRECTOR OF PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY

The Ohio State University invites applications for the position of **DIRECTOR** of Plant Molecular Biology and Biotechnology (PMBB). The PMBB group includes faculty involved in research and teaching in plant molecular biology and biotechnology at The Ohio State University; its mission centers on studies of basic molecular mechanisms in plant development, plant productivity, and plant-microbial interactions. Currently, there are 23 faculty involved in basic and applied research in PMBB on the main campus in Columbus and at the Ohio Agricultural Research and Development Center in Wooster. The Director will become a tenured Professor in one of the participating departments and will be a preeminent scientist who will be expected to maintain a world-class, extramurally supported research program. In addition, the Director will serve as a liaison between the PMBB group and the University administration, will promote interdisciplinary and individual research efforts, and will lead initiatives to involve state agencies and industry and commodity-oriented groups in the PMBB mission. The Director will lead efforts to recruit at least five additional faculty over the next three years. An attractive start-up package, competitive salary, and an excellent research laboratory suite will be provided.

Applications, curriculum vitae, and the names of four references should be sent by December 31, 1994, to: **F. Robert Tabita, Head of the PMBB Search Committee, Office of the Dean, College of Biological Sciences, The Ohio State University, Room 148A, BioSci, 484 West 12th Avenue, Columbus, OH 43210-1192.** *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disabilities are encouraged to apply.*

HARVARD UNIVERSITY DEPARTMENT OF PHYSICS

The Department of Physics of Harvard University is considering making a tenured appointment at the rank of **PROFESSOR** in the field of experimental atomic, molecular, and optical physics. The successful candidate should have a demonstrated record of distinguished experimental work in this field and be capable of leading an outstanding research program. He or she should also be an excellent physics teacher for undergraduate and graduate students.

Applicants should send a curriculum vitae and a short description of research plans to: **AMOP Search, c/o Gary Feldman, Chairman, Department of Physics, Jefferson Physical Laboratory, Harvard University, Cambridge, MA 02138.**

Harvard University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

ASSISTANT PROFESSOR. The Department of Physiology invites applications for one assistant professor position (tenure-track). Ph.D. degree or equivalent with three years of postdoctoral training. Candidates who plan to develop an independent research program in cellular, molecular or biophysical aspects of cell signaling systems or membrane biology are especially encouraged to apply. However, excellent candidates in all areas of cell physiology will be given serious consideration. Applicants should submit curriculum vitae and a brief statement of research plans and have three letters of reference sent to: **James T. Stull, Ph.D., Department of Physiology, The University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-9040.** *An Affirmative Action/Equal Opportunity Employer.*

SCIENTIFIC DIRECTOR

Blood Systems Inc., an established blood provider for fifty plus years is recruiting a **SCIENTIFIC DIRECTOR**. Position is responsible for providing scientific expertise and direction in the area of stem cell biology and processing. Licensed physician or Ph.D. in cell biology or related field is required. Minimum five to eight years of experience in cell biology and progenitor cell processing. Expertise in collection, processing, storage and infusion of progenitor cells. Knowledge of FDA GMP's for human somatic cell therapy. Experience working with regulatory agencies. Comprehensive relocation package offered. If interested please submit curriculum vitae to: **Blood Systems Inc., 6210 East Oak Street, Scottsdale, AZ 85257, Attn: Christine Darragh/SD.** *Equal Opportunity Employer; Male/Female/Disabled/Veterans.*

Research Positions in Protein Chemistry and Cellular Immunology

Ophidian Pharmaceuticals, Inc. is a biotechnology firm focusing on the development of drugs for the prevention and treatment of infectious diseases. Ophidian is utilizing proprietary immunochemical approaches to prevent and treat systemic and gastrointestinal infections.

A Protein Chemist is needed to design, prepare and analyze immunoconjugates that bind microbes with broad specificity and activate complement and facilitate opsonophagocytosis. Qualified individuals must have a Ph.D. in Biochemistry or Chemistry and extensive experience in chemical modification of both the carbohydrate and protein portions of immunoglobulin, and structural analysis by physical and chemical methods.

A position is open for a Cellular Immunologist having a Ph.D. in Immunology/Microbiology. Extensive experience with immunoglobulin effector functions and applicable *in vitro/in vivo* assays is necessary for the evaluation of immunoconjugates for their efficacy, pharmacokinetic properties and toxicity in animals.

Salaries will be commensurate with research experience. We offer a full range of benefits. Please send your CV and letter of application to:

Human Resources Department
OPHIDIAN Pharmaceuticals, Inc.
5445 East Cheryl Parkway
Madison, WI 53711

VALUE THROUGH INNOVATION DISCOVERY THROUGH TEAMWORK

The value of your contribution to science is increased when you're a member of a world-class research team. At Boehringer Ingelheim Pharmaceuticals, Inc., our internationally renowned R&D facilities, innovative programs, and top-notch scientific staff provide the perfect atmosphere to pursue challenging research. As our mission to push back the boundaries of science continues to expand, we're looking for gifted B.S., M.S., or Ph.D. Scientists with educational, academic, or industrial experience in Analytical, Medicinal, or the Life Sciences.

Our commitment to science is matched by our commitment to diversity. The innovative research, development, and production of pharmaceuticals that has made Boehringer Ingelheim a worldwide leader is carried out by individuals as diverse as the world we serve. We provide outstanding opportunities for personal and career growth to talented science professionals of all backgrounds.

Boehringer Ingelheim's R&D facility is located in a campus-like setting in a beautiful area of Western Connecticut. Our state-of-the-art facilities offer rewarding and challenging avenues of research to ambitious individuals and our team-orientation provides the professional support and the nurturing environment befitting of a scientific institution.

For an opportunity to contribute to our innovative programs, please send your resume and a brief cover letter, indicating your degree, field of interest, and professional goals, to: Dept. DN-1S, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer. As a progressive healthcare company, we have a non-smoking environment.



Boehringer Ingelheim

California State University, Long Beach Department of Biological Sciences

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. **POPULATION 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 level.

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.**

Antarctic Support Associates (ASA) is the National Science Foundation (NSF) private contractor supporting the United States Antarctic Program (USAP). ASA is recruiting specialists to support NSF research programs in the Antarctic. The following contract positions will be hired in the months of April 1995 - July 1995 to begin work during the summer months of 1995:

Laboratory Supervisors
Analytical Chemists
Analytical Technicians
Electronic Technicians

Senior Meteorologist
Meteorologist/Weather Observers
Meteorologist Technicians
Science Technicians

General qualifications for these positions are as follows:

- For Laboratory Supervisors, Analytical Chemists, and Analytical Technicians - education and research experience in the natural sciences.
- For Electronic Technicians - electrical engineering degree or equivalent work experience.
- For Science Technicians - general computer and electronic skills; background in physics or astronomy is helpful.
- For Meteorology positions - a working knowledge of surface, synoptic, and upper air procedures. Computer experience and previous experience with Atmospheric Instrumentations Research, Inc. (AIR) radiotheodolite system is a plus.

Proof of U.S. citizenship is required, and applicants must be able to pass strict physical, dental and psychiatric examinations.



If interested, send your resume to:

SCIENCE '95
Antarctic Support Associates
61 Inverness Dr. East, Suite 300
Englewood, CO 80112

EEO EMPLOYER

POSITIONS OPEN

HEAD MOLECULAR AND CELL BIOLOGY PROGRAM THE UNIVERSITY OF TEXAS AT DALLAS

The Molecular and Cell Biology Program of the University of Texas at Dallas invites applications and nominations for the position of **PROGRAM HEAD**. Candidates should have strong administrative and leadership abilities and be scholars with superior records in research, grant support and teaching to qualify for appointment as Professor with tenure. The research expertise of applicants is open but should be in the general area of molecular and cell biology in keeping with the focus of the Program. A competitive package of support resources will be customized to fit the needs of the successful applicant. The target starting date is 1 September 1995. The Molecular and Cell Biology Program focuses on basic research and education at the doctoral and undergraduate levels. The University of Texas at Dallas has the highest freshmen entrance requirements for public Universities in the State of Texas and is undergoing rapid expansion of its freshmen and sophomore population, of which 15 to 20% are majors in Molecular and Cell Biology. The new Program Head should have the skills, energy, and vision to lead the Program through the expansion period while maintaining the existing quality of the Program. Applicants should send a curriculum vitae, a short description of research plans, a concise statement of leadership philosophy, and names, addresses and telephone numbers of five references to: **Academic Search Number 2016, The University of Texas at Dallas, P.O. Box 830688, Richardson, TX 75083-0688.**

Review of applications will begin immediately and continue until the position is filled. Indication of sex and ethnicity for affirmative action statistical purposes is requested as part of the application but not required. *The University of Texas at Dallas is an Affirmative Action/Equal Opportunity Employer.*

PROFESSOR AND HEAD, Department of Agronomy. The University of Nebraska-Lincoln is seeking candidates for the Head of the Department of Agronomy to be responsible for the administration and leadership of the department's teaching, research, extension, and international activities and for program and professional development of departmental faculty. Requires Ph.D. in Agronomy or related discipline; eligibility for faculty rank of Professor; documented leadership record and strong communication, planning, and personnel management skills in university, governmental agency or industry setting; experience in establishing cooperative ventures in implementing comprehensive and innovative programs; and the ability to communicate a clear vision for Agronomy. Applications should include a letter of interest, current résumé, and the names, addresses and telephone numbers of three references postmarked by December 15, 1994 (or until a suitable candidate is found thereafter), to: **Dr. L. E. Moser, Chair, Agronomy Head Search Committee, c/o IANR Vice Chancellor's Office, University of Nebraska-Lincoln, P.O. Box 830708, Lincoln, NE 68583-0708.** *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. Moser at 402-472-1558 for more information on the position.*

DEPARTMENT HEAD, DEPARTMENT OF ENTOMOLOGY: The University of Nebraska-Lincoln invites applicants for the position of Head of the Department of Entomology. Requires Ph.D. in entomology or related field; qualification for the rank of professor and tenure in the department; demonstrated effectiveness in teaching, research and/or extension; and a proven ability to relate to faculty and staff, students, alumni, and clientele/general public. Strong leadership capabilities and communication skills are essential. Letters of application with current résumé and names, addresses and telephone numbers of three references should be postmarked by January 31, 1995 (or until a suitable candidate is found), and sent to: **Dr. Leon G. Higley, Search Committee Chair, Entomology Professor and Head, IANR Vice Chancellor's Office, University of Nebraska-Lincoln, P.O. Box 830708, Lincoln, NE 68583-0708.** *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. Higley at 402-472-8689 for more information.*

POSITIONS OPEN

PHYSIOLOGY AND BIOPHYSICS CHAIR

Department of Physiology and Biophysics, University of South Florida College of Medicine. The University of South Florida College of Medicine invites nominations and applications for the position of **CHAIRPERSON**, Department of Physiology and Biophysics. The Department has particular research strengths in organ systems and cellular physiology and participates in the education of M.D. and Ph.D. students. Candidates for the position should have a Ph.D. and/or M.D., a strong record of original scholarship, demonstrated leadership ability and a strong commitment to educational programs of the college and university are essential. Applications are sought from scientists who will foster an integrative approach to physiology research. Interested individuals may submit a letter of application, curriculum vitae which includes a summary of current research, and the names and addresses of three references to: **Steven Specter, Ph.D., Department of Medical Microbiology and Immunology, University of South Florida College of Medicine, 12901 North Bruce B. Downs Boulevard, Tampa, FL 33612-4799.** For questions and information: **813-974-0897.** Candidates who need reasonable accommodation in order to participate in the interview process must notify **Dr. Specter** 48 hours in advance. The deadline for applications is December 31, 1994. *University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Institute. Applications from women and underrepresented minorities are particularly encouraged.*

YALE UNIVERSITY SCHOOL OF MEDICINE ASSISTANT PROFESSOR OF GENETICS (CLINICAL CYTOGENETICS)

The department of Genetics invites applications for an **ASSISTANT PROFESSOR** position in the area of Clinical Cytogenetics. We seek an individual with expertise in cytogenetic analysis of clinical materials including prenatal diagnosis specimens, blood cells, and bone marrow cells. Applicants should have experience in the day-to-day management of a clinical cytogenetics laboratory, an M.D. or Ph.D. degree, and be certified or eligible for certification in clinical cytogenetics by the American Board of Medical Genetics. Interests or experience in the cytogenetics of solid tumors and molecular cytogenetics is preferred. Applicants should submit a curriculum vitae, statement of research interests, and names and addresses of three references to:

**Cytogenetics Faculty Search Committee
Yale University School Of Medicine
P.O. Box 208005
New Haven, CT 06520-8005
Attn: Irene Sherman**

The deadline for receipt of applications is January 15, 1995.

Yale is an Equal Opportunity/Affirmative Action Employer; women and minorities are encouraged to apply.

EXECUTIVE VICE CHANCELLOR THE UNIVERSITY OF KANSAS MEDICAL CENTER

The University of Kansas seeks applications or nominations for the position of **EXECUTIVE VICE CHANCELLOR (EVC)** of the Medical Center campus. The EVC is the principal administrative and academic officer of the Medical Center campus with direct responsibilities to the Chancellor of the University. The Medical Center campus includes the School of Medicine (Kansas City and Wichita), School of Nursing, School of Allied Health, Graduate Studies, and the University-owned hospital, providing both acute and chronic care and outpatient services. The Medical Center serves the needs of the metropolitan Kansas City area, the State of Kansas and the region. The EVC is expected to lead the Medical Center's teaching, patient care, and research programs and provide vision and innovation. Qualifications include an M.D. degree preferred or a Ph.D. degree in health care fields. The successful candidate must have extensive administrative experience at a university medical center and teaching hospital as a dean or vice chancellor or their equivalent.

The review of applications and nominations will begin on December 1, 1994.

Nominations, applications and inquiries should be directed to: **Daniel Hollander, M.D., Chair-Search Committee for Executive Vice Chancellor, c/o Office of the Chancellor, 230 Strong Hall, The University of Kansas, Lawrence, KS 66045.**

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

POSITIONS OPEN

MOLECULAR GENETICIST BIOMETRIST

The department seeks two **ASSISTANT PROFESSORS**, tenure-track, for August 1995. Earned doctorate required, preference for postdoctoral experience. Positions require evidence of successful teaching or potential to be a good instructor. Development of active research programs and significant professional contributions expected. Both positions include advising undergraduate and graduate majors, participation in Master's degree guidance, and some teaching to non-majors. The department seeks faculty with sensitivity to goals and needs of ethnically and culturally diverse students. (i) Eukaryotic Molecular Geneticist. Must continue active research in this field. Will share in teaching genetics for majors, and will develop an upper-level or graduate course in a specialty. (ii) Biometrist. Demonstrated success in collaborative biometric work and expertise in a field that complements existing curricula. Will share in teaching computer-based biometry courses, and will develop curricular and scholarly specialties, as well as consult on biometric matters. Transcripts, curricula vita, statements of goals and teaching philosophy, and three letters of reference must be received by January 15, 1995. Send to: **Leon Dorosz, Chair, Department of Biological Sciences, San Jose State University, San Jose, CA 95192-0100.** *San Jose State University is an Equal Opportunity/Affirmative Action/Title IX Employer.*

The VA Medical Center in Kansas City, Missouri, a Dean's Committee Hospital of the University of Kansas Medical Center, is recruiting an **ASSOCIATE CHIEF OF STAFF (ACOS)** for Research and Development. Candidates possessing an M.D. or M.D./Ph.D. degree are preferred. To qualify, candidates must have achieved sufficient stature as a research scientist and academician to qualify for appointment to the faculty at the affiliated University of Kansas Medical Center. Applicants must possess administrative, leadership and communication skills. The successful candidate is expected to implement a strategic plan for a research program that integrates the strengths of the University affiliate with those of the VA Medical Center. This includes the development of a mentoring program for investigators at the VA. In addition, the ACOS will be expected to establish and maintain an externally funded research program at the VA. Qualified individuals should submit a statement of interest, curriculum vitae and the names of three references to: **Barry Liskow, M.D., Chief, Psychiatry Service, VA Medical Center, 4801 Linwood Boulevard, Kansas City, MO 64128.**

ENDOWED CHAIR IN PHYSICAL CHEMISTRY UNIVERSITY OF CALIFORNIA, SAN DIEGO

The Distinguished Chair of Physical Chemistry has been established at the Chemistry and Biochemistry Department of the University of California, San Diego. This is a full, tenured professorship, salary to be commensurate with experience and is based on the University of California salary scale. Applications, indications of interest, and recommendations of others who should be considered are most welcome. Please submit to: **Professor Katja Lindenberg, Chair-02, Department of Chemistry and Biochemistry, UCSD, La Jolla, CA 92093-0332 USA.** All areas of physical chemistry, including applications of physical chemistry to other branches of chemistry and to other fields of science, including atmospheric chemistry, physical, biological and materials sciences, will be considered. All applications received by November 15, 1994, or thereafter until position is filled will be assured consideration. *The University of California is an Affirmative Action/Equal Opportunity Employer.*

The University of Iowa Department of Internal Medicine is seeking **FACULTY** for positions in gene therapy and molecular genetics programs in Internal Medicine. Qualifications include Ph.D. or M.D./Ph.D. degree. Expertise in gene transfer and gene therapy; molecular genetics or molecular biology; and the ability to be an independent investigator with an established research program competitive for NIH and other external funding are desirable. Salary is based on the academic level of entry and on the applicant's qualifications and responsibilities. Candidates should submit curriculum vitae to: **Randall Jordison, Assistant to the Chairman, Department of Internal Medicine, SE 309 GH, The University of Iowa, Iowa City, IA 52242.** *The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSTDOCTORAL FELLOWSHIPS

DNAX Research Institute, located near Stanford University, carries out basic research in Immunology and Molecular Biology in an open, academic environment. We are looking for several individuals to work as Postdoctoral Fellows for a period of two to three years who can contribute to our enthusiastic and productive research program.

Fellowships are available immediately in the following areas:

- Studies of NKC development and characterization of novel NKC signal transducing molecules
- The molecular biology of NK cell receptors
- The role of cytokines in the regulation of normal and malignant hematopoiesis
- Additional fellowships in Molecular Biology and Immunology are also available

Qualified applicants should send a *curriculum vitae*, statement of research interests, and the names of three references to DNAX Research Institute of Molecular and Cellular Biology, 901 California Avenue, Palo Alto, California 94304-1104. An equal opportunity employer m/f/h/v.

DNAX Research Institute

Opportunities in Science

Alpha Therapeutic Corporation, a global leader in the pharmaceutical manufacturing industry, is seeking the following professionals at our Southern California location:

- Manager, Biological Control
- Bio-Analytical Scientist
- R&D Scientist
- Regulatory Specialist/Manager
- Quality Engineer
- QC Lab Tech
- Lab Specialist
- Clinical Research Associate
- Validation Specialist

We offer salaries commensurate with experience, excellent benefits and an opportunity to be a part of our growth and success. Send resume/salary history to: Alpha Therapeutic Corporation, HR Mail Stop RL-1221, 5555 Valley Blvd., Los Angeles, CA 90032. AA/EOE.

alphaTM
THERAPEUTIC CORPORATION

St. Jude Children's Research Hospital Announces The St. Jude Scholars Program For Physician-Scientist Training

To meet the national demand for physicians qualified to bring recent advances in molecular biology to bear on problems of human disease, St. Jude Children's Research Hospital has established a program supporting intensive, laboratory-based research training for physicians. Each award provides three years of funding for advanced research training at **St. Jude Children's Research Hospital**, carried out in the laboratories of recognized leaders in biomedical research.

• Eligibility •

Interested persons may apply for a St. Jude Scholars position at any time during or after their training leading to an M.D. or M.D./Ph.D. degree. Generally, applicants will be accepted into the program after they have completed one or more years of residency training, at a time when they are ready to commit virtually all of their time to laboratory investigation. **However, we encourage interested candidates to apply as early as possible, so that plans can be made to optimally integrate clinical and laboratory training to meet the special needs of each candidate.** Applicants must have had sufficient research experience to have demonstrated potential as creative investigators and have made a commitment to pursue a career in laboratory research. It is anticipated that candidates will eventually complete residency training or subspecialty training in pediatrics, internal medicine, pathology, neurology, radiotherapy, or surgery — either before or after their three years of laboratory research training at St. Jude.

With rare exceptions, applicants must be either U.S. citizens or noncitizens admitted for permanent residence.

• Scholarship Terms •

Each award provides financial support for three years of laboratory research training. Clinical responsibilities during this period are limited to a half day or less per week. The initial stipend will be \$40,000 to \$50,000 per year, depending on the time the candidate has spent in Ph.D., residency, and subspecialty fellowship training, with appropriate increases during the second and third years of training. Funds for supplies, travel to scientific meetings and fringe benefits are also provided. Continuation of financial support beyond the first year is based on a satisfactory performance review by the scholar's mentor and the program's advisory committee.

• Application •

Please submit 1) a two-page letter describing your career goals and type of training desired, 2) a curriculum vitae, and 3) the names, addresses and telephone/FAX numbers of three faculty members who are familiar with your academic and clinical performance. One of these faculty members should be the director of your current clinical or research training program. The most promising applicants will be invited to St. Jude Children's Research Hospital for interviews with laboratory directors and the selection committee.

Applications and inquiries should be addressed to: **A. Thomas Look, M.D., Chairman, St. Jude Scholars Program for Physician/Scientist Research Training, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105.**

EQUAL
OPPORTUNITY/
AFFIRMATIVE
ACTION EMPLOYER



POSITIONS OPEN

ANALYTICAL CHEMISTRY/NEUROCHEMISTRY. The Department of Chemistry at Trinity College invites applications for a tenure-track position in Analytical Chemistry/Neurochemistry to begin fall 1995. Candidates should have a Ph.D. in analytical chemistry and be prepared to teach courses in analytical chemistry, instrumental analysis, and introductory chemistry. The successful candidate should also be prepared to devote 40% of their teaching to the Neuroscience Program including a course in Neurochemistry. Research with undergraduate students from chemistry and neuroscience is expected. Institutional support for research will be provided. The Department has excellent modern instrumentation including GC/LC-MS, HPLC, GC, FT-IR, AAS, SEX and a 300 MHz NMR. The Chemistry Department is certified by the American Chemical Society and offers majors in Chemistry and Biochemistry. Consideration of applications will begin on January 31, 1995, and will continue until the position is filled. Send a detailed curriculum vitae, transcripts, three letters of recommendation, and a brief description of research plans to: **Dr. Richard V. Prigodich, Chairman, Department of Chemistry, Trinity College, Hartford, CT 06106. Telephone: 203-297-2210; Email: richard.prigodich@mail.trincoll.edu (Internet).** An Affirmative Action/Equal Opportunity Institution. Members of groups affected by affirmative action guidelines are strongly encouraged to apply.

DEAN, THAYER SCHOOL OF ENGINEERING DARTMOUTH COLLEGE HANOVER, NEW HAMPSHIRE

Applicants should hold a doctoral degree in engineering or a closely related field and be eligible for a tenured full professorship, as demonstrated by experience and excellence in both teaching and research. Talents in management and economic development activities are also required. The successful candidate will have significant intellectual stature and achievements and show strong potential for providing leadership in both academic and professional aspects of engineering education, acting as an articulate spokesperson for the School. If you would like additional information, please contact **Professor Bengt Sonnerup (Telephone: 603-646-2883; Email: sonnerup@dartmouth.edu).**

Send your nomination, or application with supporting materials to: **Professor Bengt Sonnerup, Chair, Thayer School Dean Search Committee, 6004 Parkhurst Hall, Dartmouth College, Hanover, NH 03755-3529 (Inquiries: 603-646-2883; sonnerup@dartmouth.edu).** Review process starts in October 1994.

Dartmouth College is an Affirmative Action/Equal Opportunity Employer.

PHYSICAL SCIENCE DEPARTMENT—Kutztown University invites applicants for **TENURE-TRACK POSITION** in Organic Chemistry commencing August 1995. Teaching responsibilities (24 contact hours per year) include Organic Chemistry and occasional assignments in other chemistry courses. Ph.D. in Chemistry is required. A concentration in Organic Chemistry preferred and a proven commitment to course development, excellence in undergraduate teaching and research are required. Submit a letter of application, curriculum vitae, official undergraduate and graduate transcripts, and three current letters of recommendation to: **Dr. Daniel Bacon, Organic Search Committee, Department of Physical Sciences, Kutztown University, Kutztown, PA 19530.** All materials must be received by January 15, 1995. Kutztown University is an Affirmative Action/Equal Opportunity Employer and actively solicits applications from qualified women and minority candidates.

BIOLOGY. Plant physiology preferred, **TENURE-TRACK**, entry level position starting fall 1995. Doctorate or ABD required, doctorate and postdoctoral experience preferred. Duties: introductory biology courses and upper-level botany, physiology and related courses; involving students in undergraduate research; and advising majors and freshmen. College teaching experience, publications, and experience at a small, selective, liberal arts college desired. Send letter of application, résumé, outline of proposed research suitable for undergraduates, a statement of interest in teaching in a small liberal arts college, and names and telephone numbers of three references to: **Professor Roberta Bustin, Chair, Biology Search Committee, Lyon College, P.O. Box 2317, Batesville, AR 72503 or Email to facsearch@shire.ac.arknet.edu.** Consideration of applications will begin on December 1, 1994, and continue until position is filled. *Equal Opportunity Employer.*

POSITIONS OPEN

ASSOCIATE CURATOR/CURATOR SYSTEMATIC ENTOMOLOGY

The Department of Entomology (National Museum of Natural History, Smithsonian Institution) invites applications for the position of **RESEARCH ENTOMOLOGIST** with the rank of **ASSOCIATE CURATOR** or **CURATOR**. Candidates with any taxonomic and research specialty may apply. Applicants must have a Ph.D. or equivalent experience with a background in entomology, systematics and evolutionary biology. Preference will be given to those showing evidence of a continuing commitment to a strong and innovative program of independent and collaborative research with associated field and laboratory work. In addition to research, duties will include the improvement and expansion of collections, participation in museum activities, such as exhibits and education, and involvement with professional associations and other organizations within the scientific community. Federal Civil Service position. Starting salary: \$42,003 to \$69,427, depending on qualifications.

For a complete application package, call **202-287-3102** (24-hour autoline), press 9 and request Announcement Number **94-1186R**. Complete applications must be postmarked by January 15, 1995. *Equal Opportunity/Affirmative Action Employer.*

The Department of Pathology and Laboratory Medicine of the University of Rochester, Rochester, New York invites applications for the **GEORGE HOYT WHIPPLE PROFESSOR OF PATHOLOGY AND LABORATORY MEDICINE**. The target for the search is a scientist with a primary commitment to investigation in the area of molecular oncology. The appointee will provide leadership to enhance and expand scientific endeavors of the department establishing a laboratory with a focus in the broad area of cellular and molecular biology and will have a joint appointment in the Cancer Center at the University. The appointee will work with faculty in the recruitment of additional faculty to augment existing graduate and post-graduate training, and to strengthen research programs related to cancer. The applicant will be chosen primarily on the basis of productivity in science as determined by publication record and funding. Interested candidates should submit their curriculum vitae by December 1, 1994, to: **Search Committee, George Hoyt Whipple Professor of Pathology and Laboratory Medicine, c/o Charles E. Sparks, M.D., Department of Pathology and Laboratory Medicine, University of Rochester Medical Center, 601 Elmwood Avenue, Box 608, Rochester, NY 14642 USA. Telephone: 716-275-8236.** The University of Rochester is an Equal Opportunity Employer.

ACADEMIC COORDINATOR—Introductory Biology. Applications are invited for a position in the Section of Evolution and Ecology, Division of Biological Sciences, University of California, Davis, effective 1 July 1995. Ph.D. in biological sciences and extensive experience in teaching laboratory sections required. Position involves assisting instructors and coordinating teaching assistants and laboratories for course Biological Sciences 1B (Introductory Biology), directing a TA training course, and involvement in course improvement in Biological Sciences 1B and the Biological Sciences 1B Learning Center.

Position open until filled. Applications should be received by 15 December 1994 to receive full consideration. Applicants should send a letter of application and curriculum vitae, and have two letters of recommendation sent to: **Judy Stamps, Vice Chair, Section of Evolution and Ecology, University of California, Davis, CA 95616-8755.** The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION MOLECULAR VIROLOGY AND ONCOLOGY

Position available to study the role of hepatitis B viruses in hepatocarcinogenesis. Studies will focus on the molecular mechanism of viral DNA integration and specifically, roles of cellular enzymes such as Topoisomerases. Applicants should have a Ph.D. in a relevant discipline. Send curriculum vitae and names of three references to: **Charles E. Rogier, Ph.D., Marion Bessin Liver Research Center, Department of Medicine, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461.**

An Equal Opportunity Employer

POSITIONS OPEN

DEVELOPMENTAL ANATOMIST GROSS ANATOMIST

Two full-time, tenure-track positions are available in the Department of Anatomy of The National College of Chiropractic. 1. **DEVELOPMENTAL ANATOMIST:** Primary responsibilities—teach the developmental portion of the anatomy curriculum; instruct in the gross anatomy laboratory; background in genetics would be useful. 2. **GROSS ANATOMIST:** Primary responsibilities—teach the lecture and laboratory portions of the head and neck segment of the gross anatomy course. Seeking a person with experience teaching head and neck anatomy with research interests related to the clinical anatomy of the head, neck, and spine are preferable. Each position includes working as a small group facilitator in a problem-based curriculum. Applicants should have a Ph.D. in an anatomic science (a professional degree may be considered) and possess strong teaching and research interests in clinical anatomy. Salary and rank are dependent on experience. Letters of application with curriculum vitae, bibliography, a brief statement of teaching and research interests, and the names, addresses, and telephone numbers of three references should be sent to: **Gregory D. Cramer, D.C., Ph.D., Chairman, Anatomy Search Committee, The National College of Chiropractic, 200 East Roosevelt Road, Lombard, IL 60148.**

The University of California Museum of Paleontology seeks two **PALEONTOLOGISTS/COLLECTION MANAGERS** with expertise in the areas of paleobotany and vertebrate paleontology. These positions include the management of extensive collections of fossil plants and vertebrates, direction of part-time student employees, preparation, arrangement and care of specimens for research and teaching, occasional assistance in Museum-sponsored field projects, exhibit planning and preparation, public outreach programs, and the provision of information to outside contacts. Applicants must have a Master's or Ph.D. degree together with (1) demonstrated skill with the requisite fossil taxon, and (2) collateral experience in database management, system administration or museum conservation practices. Send curriculum vitae and the names of three references to: **Paleontology Search Committee, Museum of Paleontology, University of California, Berkeley, CA 94720-4780, USA.** Closing date is 15 January 1995. *UC Berkeley is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION

POSTDOCTORAL RESEARCH POSITION in the Department of Chemistry and Biochemistry, Texas Tech University. The research will focus on the expression of plant electron transfer enzymes in *E. coli* and on site-directed mutagenesis. A Ph.D. in biochemistry, molecular biology, microbiology or a related discipline or equivalent experience and expertise with enzyme expression in *E. coli* and with site-directed mutagenesis is required. The position will be available on or after November 15, 1994, at a minimum annual stipend of \$21,000. A higher stipend may be possible for candidates with the appropriate experience and a cost-of-living increase will be available for the second year of the position. Please send a curriculum vitae and arrange for three letters of recommendation to be sent to:

**Professor David B. Knaff
Department of Chemistry and Biochemistry
Texas Tech University
Mail Stop 1061
Lubbock, TX 79409-1061**

POSTDOCTORAL POSITION studying the hepatocyte nuclear factor 3/fork head (HFH) transcription factors' expression pattern during mammalian development in the lung (see *Dev. Biol.*, November 1994 issue). This work also entails identification of cell-type-specific target genes regulated by the HFH proteins and characterization of protein domains involved in transcriptional activation. Experience in molecular biology is required. Preference will be given to applicants with knowledge of developmental biology and *in situ* hybridization technique. See *P.N.A.S.*, 90:3948, 1993; *Mol. Cell. Biol.*, 14:2755, 1994. Please send curriculum vitae, names and telephone numbers of three references to: **Dr. Robert Costa, University of Illinois at Chicago, College of Medicine, Department of Biochemistry (M/C 536), 1819 West Polk Street, Chicago, IL 60612-7334. FAX: 312-413-0364.** The University of Illinois at Chicago is an Affirmative Action/Equal Opportunity Employer.

AMERICAN ASSOCIATION FOR CANCER RESEARCH

The American Association for Cancer Research (AACR) is a professional society of over 10,000 scientists and physicians involved in cancer research. Members in the AACR enjoy

- subscriptions to the journals *Cancer Research*, *Cell Growth & Differentiation (CG&D)*, *Cancer Epidemiology, Biomarkers & Prevention*, and (starting in 1995) *Clinical Cancer Research* at reduced member rates
- early notification of and reduced registration rates at the AACR Annual Meeting and Special Conferences
- Employment Register, Directory of Members, public education activities, and many other benefits

Special programs to provide enhanced career development opportunities for minority scientists include

- **Mentorship Program**
- **Travel Awards to Scientific Meetings**

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

PHYSICAL CHEMIST

Aqueous Chemistry

The High Temperature Aqueous Chemistry Group of the Chemical and Analytical Sciences Division at the Oak Ridge National Laboratory (ORNL) is seeking an experienced scientist for research on equilibrium thermodynamic properties of aqueous electrolytes and chemical reactions in solution at high temperatures and pressures.

Applicants should have several years of experience beyond the PhD and an established record of experimental research using classical techniques of solution chemistry, along with a thorough knowledge of aqueous thermodynamics. Requires a working knowledge of statistical thermodynamics and methods for molecular simulation of solutions, including molecular dynamics, Monte Carlo, and integral equation approaches.

ORNL is a multipurpose research facility managed by Martin Marietta Energy Systems, Inc. for the U.S. Department of Energy. For immediate consideration, send your resume (by November 30, 1994) to: **Dr. Robert E. Mesmer, Oak Ridge National Laboratory, Dept. SCI-1104, P.O. Box 2008, Oak Ridge, TN 37851-6110, (Ph: 615-574-4958; FAX 615-574-4961).** *ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.*

ornl



NEUROIMAGING

The Mental Health Research Institute and Department of Psychiatry of the University of Michigan are seeking candidates for a tenure track position in research on non-invasive imaging of the brain related to the understanding of human behavior relevant to mental illness. Candidates should have interest and experience in application of non-invasive modalities to measure neuroanatomically defined functional change, e.g., blood flow, metabolism, receptor regulation, etc., and are expected to develop independent and collaborative research projects.

Preference will be given to psychiatrists with neuroimaging experience. Applicants should provide a brief statement of research interests and future plans, a curriculum vitae with bibliography, and names and addresses of three references. **Deadline December 1, 1994.** Send inquiries and applications to: Chair, Neuroimaging Search Committee, Mental Health Research Institute, University of Michigan, 205 Zina Pitcher Place, Ann Arbor MI 48109-0720.

The University of Michigan is an equal opportunity/affirmative action employer and specifically encourages applications from qualified women and minorities.

Program for Minority Research Training in Psychiatry

Through its National Institute of Mental Health-funded **Program for Minority Research Training in Psychiatry (PMRTP)**, the American Psychiatric Association (APA) is seeking to increase the number of minority psychiatrists going into psychiatric research.

☐ The program provides medical students and psychiatric residents with funding for stipends, travel expenses, and tuition for an elective or summer experience in a research environment.

☐ Stipends are also available for one- or two-year post-residency fellowships for minority psychiatrists.

Deadlines for applications are December 1 (for residents seeking a year or more of training and for post-residency fellows) or three months before training is to begin (for medical students and other residents).

Training takes place at research-oriented departments of psychiatry in major U.S. medical schools and other appropriate sites nationwide. An individual at the site (the research "mentor") oversees the research training experience. For more information about the PMRTP, call the toll-free number, 1-800-852-1390, or 202-682-6225, or write to:

Dr. Harold A. Pincus
Office of Research
American Psychiatric Association
1400 K Street, N.W.
Washington, DC 20005

Director Trudeau Institute

The Trudeau Institute invites applications for the position of Director. The Institute, located in Saranac Lake, N.Y. is a privately endowed laboratory engaged in basic research in the field of Immunobiology at molecular, cellular, and physiological levels, with special emphasis on the responses of experimental animals to a variety of antigenic stimuli including those provided by tumors, allografts, and pathogenic microorganisms. Total research space in the Institute amounts to 10,000 square feet. In addition there are several rooms equipped with micro isolator housing for small animals, a BioSafety Level 3 facility, and a 10,000 sq. ft. animal facility that breeds mice under specific pathogen free conditions. Candidates should have attained national and international stature 'in the field of experimental immunology, and should be actively involved in a full-time program of basic research. Inquiries and applications, which should include a current curriculum vitae, should be sent to:

The Search Committee
Trudeau Institute
P. O. Box 59
Saranac Lake, N.Y. 12983

POSITIONS OPEN

EVOLUTIONARY PRIMATOLOGY POSTDOCTORAL POSITION

The American Museum of Natural History (AMNH) seeks a resident **POSTDOCTORAL CANDIDATE** to complement the research of and work with one or more members of its staff for one year beginning summer 1995. This position offered under the auspices of the New York Consortium in Evolutionary Primatology (NYCEP), a graduate training program in all aspects of the behavioral and evolutionary biology of primates, is funded by an NSF Research Training Grant. The NYCEP faculty includes 25 researchers drawn from the AMNH, City University of New York, Columbia University, New York University, and the Wildlife Conservation Society. NYCEP faculty at the AMNH (Eric Delson, Rob DeSalle, Ross MacPhee, Michael Novacek, Ian Tattersall, John Van Couvering and Ward Wheeler) undertake research in primate (including human) paleontology and systematics, biochemistry, comparative and functional morphology, and molecular systematics and evolution. NSF limits eligibility to U.S. citizens, nationals and permanent residents; minority candidates are especially encouraged to apply. Obtain application forms and information from: **Dr. E. Delson, Department of Vertebrate Paleontology, AMNH, New York, NY 10024**. All contact with him or other faculty should be by mail. Postmark applications by January 15, 1995. *AMNH and NYCEP are Equal Opportunity/Affirmative Action Employers.*

Two **POSTDOCTORAL POSITIONS** open at the Centre Régional de Transfusion Sanguine (affiliated to Université de Franche-Comté and INSERM). Our institute is involved in basic research, preclinical evaluation and clinical trials involving bone marrow transplantation, gene therapy and immunomodulation. Postdoctoral Researcher 1: Immunomolecular Therapeutic Laboratory. Modulation of alloreactivity by expression of a suicide gene. Expression of genes interfering with HIV replication in T-lymphocytes and CD341 cells. Postdoctoral Researcher 2: Laboratory for the study of Hematopoiesis. Stem cell regulation by stroma (expression of cytokines and adhesion molecules). Stromal cell transfection by neutral and cytokine genes for transplantation study in a SCID model. A strong background in cell biology and molecular biology in the field of immunology and/or hematopoiesis is required. Knowledge of French is not required. Send curriculum vitae and names of three referees to: **Pr P. HERVE, CRTS, 1 Bd Fleming, Besançon, France. FAX: (33) 81.61.56.17**.

POSTDOCTORAL POSITION

Position available in the Laboratory of Cytogenetics, Department of Pathology and Laboratory Medicine, to perform molecular cytogenetic techniques. This position offers training for the cytogenetics of leukemias and lymphomas, and opportunities to study genetic aberrations in hematologic neoplasms. Ph.D. and experience in cytogenetics, molecular biology and *in situ* hybridization are desirable. Send curriculum vitae, names of three references, and a statement of research interest to:

Susana C. Raimondi, Ph.D.
Director, Cytogenetics Laboratory
Department of Pathology
and Laboratory Medicine
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105-2794

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in Reproductive Biology or Developmental Biology to study sex determination in the mouse. Experience in basic molecular biology techniques and mouse genetics desired. U.S. citizenship or permanent residency required. Send résumé with names of references to: **Dr. Claude Nagamine, Vanderbilt University Medical Center, Department of Cell Biology, Medical Center North, Room T2216, Nashville, TN 37232-2175**.

POSTDOCTORAL POSITION for studies of mouse T lymphocyte subsets, their activation requirements, and their patterns of lymphokine secretion, with emphasis on aging and T cell memory. A strong background in immunology is required. Send curriculum vitae, brief statement of research interests, and names and telephone numbers of three referees to: **Richard A. Miller, University of Michigan, Box 0642, MSRB-3, Ann Arbor, MI 48109**. *An Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL POSITIONS

Two **POSTDOCTORAL POSITIONS** are available at Meharry Medical College in fields of study concerned with the cellular and molecular basis of cardiovascular and hematologic disease. Training faculty include members of the Department of Microbiology and the Division of Biomedical Sciences at Meharry in conjunction with faculty in the Departments of Pathology, Microbiology and Immunology, Cell Biology and Biochemistry at Vanderbilt University. Research training will focus on molecular, biochemical and immunological approaches to elucidate mechanisms whereby trauma and infectious organisms cause cardiovascular and hematologic disease. Interested applicants should send a curriculum vitae and the names of three references to: **Shirley Russell, Ph.D., Chairperson, Department of Microbiology, Meharry Medical College, 1005 D. B. Todd Boulevard, Nashville, TN 37208**. Qualified minorities and women are especially encouraged to apply. *An Equal Opportunity/Affirmative Action Employer.*

TRAINEESHIP IN MATERNAL AND CHILD NUTRITION

POSTDOCTORAL POSITION on NIH-sponsored training grant available January 1995 for U.S. citizens or permanent residents. Doctoral degree (Ph.D., Sc.D., D.P.H. or M.D.) and commitment to a career in this field required. Six trainees available as mentors with research projects in a wide range of disciplines related to maternal and child health (experimental and human nutrition, epidemiology, international and community nutrition, etc.). Send curriculum vitae, list of publications, and three letters of reference to: **Dr. Kathleen Rasmussen, Program Director, 111 Savage Hall, Division of Nutritional Sciences, Cornell University, Ithaca, NY 14853-6401**. *As an Affirmative Action/Equal Opportunity Employer, we actively encourage women and minorities to apply.*

POSTDOCTORAL POSITION ALBERT EINSTEIN COLLEGE OF MEDICINE

A **POSTDOCTORAL POSITION** is immediately available in an NIH-supported research project utilizing novel SCID mouse models chimeric for the human immune and hematopoietic system to study the immunopathogenesis of HIV infection and the efficacy of therapeutic interventions including gene therapy. Candidates should have significant expertise in molecular biology, cellular immunology, tissue culture and a serious interest in HIV research. Please send curriculum vitae and names of three references to: **Dr. Harris Goldstein, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, Chanin 626, 1300 Morris Park Avenue, Bronx, NY 10461**. *An Equal Opportunity Employer.*

POSTDOCTORAL POSITION OREGON HEALTH SCIENCES UNIVERSITY

POSTDOCTORAL POSITION is available for studies on the mechanism of transformation and leukemogenesis by activated tyrosine kinases. Biochemical, cellular and molecular studies of signal transduction will be performed and will interface with clinical studies on cancer chemotherapy. Because funding is from an NIH training grant, applicants must be U.S. citizens or permanent residents. Please send curriculum vitae, statement of research interests and the names of three references to: **Brian J. Druker, M.D., Oregon Cancer Center-L586, Oregon Health Sciences University, 3181 S. W. Sam Jackson Park Road, Portland, OR 97201**.

The Massachusetts General Hospital (MGH) **NIH POSTDOCTORAL TRAINING PROGRAMS** are seeking qualified candidates for the following research training opportunities: NMR Research; Immunology and Tumor Biology; Radiological Science; Cell Structure and Function in Nephrology; Reproductive and Developmental Biology; Burns and Trauma; Basic Science Research Training for Anesthetists; Connective Tissue Structure, Function, and Disease; Dermatology; Endocrinology and Diabetes; Digestive Diseases; Cell and Molecular Aspects of Cardiovascular Biology; and Basic Neuroscience for Neurologists and Neurosurgeons.

Additionally, please note that the MGH is very committed to providing training opportunities in these areas for qualified individuals in groups currently underrepresented in science, namely minorities and women. Please contact: **Richard L. Pharo, Sc.D., Research Affairs, MGH, Fruit Street, Boston, MA 02114-2896**.

POSITIONS OPEN

POSTDOCTORAL POSITION available to investigate NMDA-receptor/channel-mediated mechanisms of signal transduction, with emphasis on type II Ca²⁺/calmodulin-dependent protein kinase. Brain slices and neuronal cells in culture are used to examine biochemical/molecular mechanisms regulating kinase expression/association with neuronal compartments. Ph.D. in Physiology, Pharmacology or related discipline required. Send curriculum vitae and three letters of reference to: **M. L. Vallano, Department of Pharmacology, No. 920336, SUNY Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210**. Review of applications will begin immediately and continue until the position is filled. *SUNY-Health Science Center is an Affirmative Action/Equal Employment Opportunity/ADA Employer, committed to excellence through diversity.*

POSTDOCTORAL POSITION in Signal Transduction is available immediately to clone and characterize novel G-protein coupled receptors which are coupled to the human heart voltage-dependent Na⁺ channel. Experience in protein biochemistry, electrophysiology or molecular biology is necessary. Send curriculum vitae and the names and addresses of three references to: **Thomas Friel, Ph.D., Department of Pharmacology, P.O. Box 850, Penn State College of Medicine, Hershey, PA 17033**. FAX: 717-531-5013; Email: tjf2@psu.edu. *Penn State University is an Equal Opportunity/Affirmative Action Employer and encourages women and minorities to apply.*

A **POSTDOCTORAL POSITION** is available immediately to study various aspects of vertebrate molecular genetics. The present focus of the laboratory is tissue-specific transcriptional regulation with particular emphasis on myosin heavy chain beta. Particular expertise is not required, though candidates with some previous molecular biology experience are preferred. Send curriculum vitae and contact information for three references to: **Dr. Noriko Shimizu, University of South Carolina, School of Medicine, Department of Developmental Biology & Anatomy, Columbia, SC 29208**.

INDIANA UNIVERSITY

Speech, Hearing and Sensory Communication

NIH PREDOCTORAL AND POSTDOCTORAL POSITIONS are available immediately to study speech perception, production, synthesis, spoken word recognition, auditory psychophysics, hearing science and experimental audiology. Send a curriculum vitae, personal letter describing specific research interests and three letters of reference by January 1, 1995, to: **Dr. David Pisoni, Speech Research Laboratory, Indiana University, Department of Psychology, Bloomington, IN 47405**.

An Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** are available to study the newly discovered Ca²⁺ signaling pathway mediated by cyclic ADP-ribose. Ongoing research includes characterizations of the metabolic enzymes, synthesis of cADPR analogs and regulation mechanisms of the pathway. Experience with molecular biology, enzyme purification and/or microinjection desirable. Please send curriculum vitae and reference letters to: **Dr. Hon-Cheung Lee, Department of Physiology, University of Minnesota, 6-255 Millard Hall, 435 Delaware Street SE, Minneapolis, MN 55455**. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

POSTDOCTORAL POSITIONS available immediately. Studies focus on biocatalysts and drug development (enzymes, antibodies, and RNA). Candidates should have experience in either 1) synthetic/bioorganic chemistry, 2) enzymology and hybridoma research, or 3) molecular biology/protein expression. Send curriculum vitae and three references to: **John Cashman, Ph.D., Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109-1651**. *Seattle Biomedical Research Institute is an Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION available immediately to study regulation of HIV-1 RNA splicing *in vivo* and *in vitro* using cell-free splicing systems. A Ph.D. or equivalent training and experience with a strong background in biochemistry and molecular biology is necessary. Send curriculum vitae and names of three references to: **C. Martin Stoltzfus, Department of Microbiology, 3-770 Bowen Science Building, The University of Iowa, Iowa City, IA 52242**. *The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.*

**CURATOR
Systematics of the
Lepidoptera
American Museum of
Natural History**

Applications are invited for a tenure-track curatorial position in the Department of Entomology at the AMNH. The primary requirement is original and productive research on morphologically-based systematics of the Lepidoptera. Compelling candidates will show evidence of contributions to fundamental issues in biodiversity and evolutionary biology. Rank and salary will be commensurate with experience.

The new curator of Lepidoptera is also expected to: 1) Manage a collection of approximately 2 million moths and butterflies, including building collections in the area of his/her expertise; 2) Participation in the department's joint graduate student training programs with Cornell University and/or the City University of New York; 3) Fostering inter-institutional databasing related to issues of surveys and biodiversity; 4) Maintain standard museum duties of serving on committees, exhibition programs, supervision of support staff, and future service on a rotating basis as departmental chairperson. The position will be available July 1, 1995. A Ph.D. (or equivalent) and demonstrated success in attracting external research funding are required.

Applicants should forward, by **January 15, 1995**: 1) a statement of research interests and goals, 2) curriculum vitae with complete bibliography and reprints, and 3) names, addresses and telephone numbers of at least three evolutionary biologists familiar with the applicant's accomplishments. Submit applications to:

**Dr. David Grimaldi, Chairman
Department of Entomology
American Museum of Natural History
Central Park West at 79th Street
New York, NY 10024-5192 USA**

An Equal Opportunity Employer



National Center
for Human
Genome Research

**National Center for Human
Genome Research
National Institutes of Health**

**Genomics Short Course
for Faculty at Minority Institutions**

The short course provides support for research training of faculty members at colleges and universities with substantial minority enrollments. Participants will have the opportunity to spend two weeks at the National Center for Human Genome Research (NCHGR) laboratories and clinics at the NIH. During their stay, faculty will learn about the latest genome technologies, curriculum development and grant writing skills as well as the social and ethical implications of genome research. They will also have the opportunity to learn specific laboratory techniques which they can use to enhance their teaching and research. Applicants must be faculty members of colleges or universities with a substantial minority enrollment. The NCHGR will provide *per diem* during the period of the short course; however, the participant's home institution is responsible for travel expenses. Applications may be initiated by submitting: a curriculum vitae, a cover letter describing research and teaching goals and a supporting letter from the candidate's department head (or equivalent). Applications for the summer of 1995 should be submitted by **December 31, 1994**.

For short course application information or questions, contact:

**Paula Gregory, Ph.D., Chief
Genetics Education Office
NIH/National Center for Human Genome Research
Building 49, Room 3A14
9000 Rockville Pike
Bethesda, Maryland 20892
Fax: (301) 402-4929; e-mail: edcore@nchgr.nih.gov**

Women and minority candidates are strongly encouraged to apply.

VZV

**ANNOUNCING APPLICATIONS
FOR THE VARICELLA-ZOSTER VIRUS
POSTGRADUATE FELLOWSHIPS
Two, Two-Year \$50,000/YEAR AWARDS**

The VZV Research Foundation announces an international competition for postgraduate fellowships to study the pathogenesis of the varicella-zoster virus (VZV) and associated sequelae.

Applicable research areas include: virus host interactions; neuron growth; nerve cell interactions; post-herpetic neuralgia and pain management.

Each \$50,000 grant includes \$35,000 annual salary plus benefit allowance, and research allowance for the sponsoring lab. Second year support is contingent on satisfactory progress.

Foundation requires mentor letter of intent and evidence of external funding for research on VZV or allied field.

Applications available November 1, 1994

Filing deadline March 31, 1995

Fellows will be notified May 1, 1995

Funding starts July 1, 1995

FOR APPLICATION, WRITE:

Fellowship Committee - S

The VZV Research Foundation, Inc.

40 East 72nd Street, New York, NY 10021

The VZV Research Foundation, established in 1991, is the world's only non-profit organization supporting scientific research and education on the varicella-zoster virus (VZV) and the diseases it causes—chickenpox, shingles and post-herpetic neuralgia (PHN). Guided by an international group of 29 physicians and scientists who are specialists in the VZV field

**Tri-Institutional Program
prepares physician-scientists to
investigate, as well as treat disease.**

The Tri-Institutional MD-PhD Program enables a select group of highly qualified students to combine medical training at Cornell University Medical College with the extraordinary biomedical research and educational opportunities available at the **Cornell University Graduate School of Medical Sciences, The Rockefeller University, and the Sloan-Kettering Institute** ■

Research training is offered in biochemistry, biophysics, cell biology, genetics, immunology, molecular biology, neurosciences, pharmacology, physiology, and virology ■ Because of the increasing diversity of the United States population, the national need for physician-investigators who are members of under-represented minority groups is acute ■ The Tri-Institutional MD-PhD Program is actively seeking to increase applications from under-represented minority students ■

For further information, please contact:

Tri-Institutional MD-PhD Program

Cornell University Medical College

1300 York Avenue, New York, NY 10021

Telephone: (212) 746-6023

POSITIONS OPEN

CANCER RESEARCH POSTDOCTORAL TRAINING CASE WESTERN RESERVE UNIVERSITY CANCER CENTER

NIH-funded cancer research postdoctoral positions for individuals holding the M.D., M.D./Ph.D. or Ph.D. degrees. Research focuses include:

Steroid hormone action	DNA repair
Molecular biology of colon cancer	Mutagenesis
Molecular virology	Immunology
Radiation biology	Cutaneous oncology
Cellular adhesion	Regulation of cell growth
Retroviral oncogenesis	Neurooncology
Gene regulation	Apoptosis
Gene therapy	Breast cancer

Send curriculum vitae and statement of research interests to: Dr. Clark Distelhorst, School of Medicine (BRB), Case Western Reserve University, 10900 Euclid Avenue, Cleveland, OH 44106-4937. Must be U.S. citizen or permanent resident. Minorities and women are encouraged to apply.

PREDOCTORAL AND POSTDOCTORAL TRAINING in Developmental Neuroscience. The University of Arizona has established an interdisciplinary training program in basic and clinical aspects of developmental neuroscience, with support from the Flinn Foundation and NINDS. A broad range of cellular, molecular, genetic, and systems-level approaches are represented in research areas that include: molecular mechanisms of neurogenesis, development of synaptic connectivity and neuronal morphology, the neuronal basis for behavioral plasticity, neuron-glia interactions, hormone action, and ion channel/receptor expression and function. Trainees may work on collaborative projects or with one of the 15 members of the training faculty. Postdoctoral applicants must be U.S. citizens or permanent residents of the United States. Review of applications begins immediately and will continue through May 30, 1995. For information contact: Richard B. Levine, Division of Neurobiology, Room 611 Gould Simpson Building, The University of Arizona, Tucson AZ 85721; RBLLEVINE@ccit.arizona.edu. The University of Arizona is an Equal Opportunity/Affirmative Action/ADA Compliance Employer.

FELLOWSHIP IN ACADEMIC TRANSFUSION MEDICINE—This program is designed to offer the Fellow exposure to all areas of clinical transfusion medicine and to provide opportunities for investigational (basic and applied) studies. The activities of the department include an accredited reference laboratory, compatibility testing, component preparation, histocompatibility testing, infectious diseases serology, and bone marrow/stem cell processing/purging for bone marrow transplantation. Our program offers research opportunities in molecular and structural immunology, genetics, coagulation, stem cell biology and microbiology. The program is ACGME accredited and supported by the NIH. Candidates must hold a Ph.D. or M.D. degree. Inquirers should be directed to: Leslie E. Silberstein, M.D., Director, Blood Bank and Transfusion Medicine Section, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.

DEVELOPMENTAL AND PERINATAL ENDOCRINOLOGY

Two Postdoctoral and three Predoctoral FELLOWSHIP POSITIONS are available immediately at the University of Cincinnati/Children's Hospital Medical Center for basic scientists and clinicians to study various aspects of developmental and perinatal endocrinology. These fellowships, which are available for one or two years, are supported by a new NIH training grant that consists of 15 faculty from six clinical and basic science departments. Research themes include the physiology and molecular biology of the growth hormone, placental lactogen and prolactin gene family, endocrinology of parturition, growth factors, mechanisms of hormone action and calcium metabolism. Candidates must be U.S. citizens or permanent U.S. residents. Submit curriculum vitae, statement of career objectives and names of three references to: Dr. Stuart Handwerger, Division of Endocrinology, Children's Hospital Medical Center, 3333 Burnet Avenue, Cincinnati, OH 45229-3039. Inquiries also may be made to 513-559-4209 or by Email to Handwerger@UCBEH.SAN.EDU. Salary will be commensurate with experience; benefits are included. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

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; modification with non-natural amino acids; NMR spectroscopy; and X-ray crystallography.

The application deadline for fall 1995 admission is February 15, 1995. Address inquiries to: Graduate Program in Protein Engineering, University of California, Irvine, CA 92717-1450. Telephone: 714-856-6686; Internet: Prot.Engr@UCI.edu. Applications from underrepresented groups, including minorities, women, and people with disabilities, are encouraged.

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

DOE/NSF/USDA-sponsored FELLOWSHIPS at North Carolina State University and Ciba Geigy Agricultural Biotechnology Research Unit are available to study (1) epigenetic phenomena influencing transgene expression and inheritance and (2) use of transgenic technologies to enhance disease resistance in important crop species. Further information and application materials may be obtained from: Nicole Burdick, Department of Botany, Box 7612, North Carolina State University, Raleigh, NC 27695-7612. Telephone: 919-515-2727; FAX: 919-515-3436; Email: joyce_bruffey@ncsu.edu. Inquiries from established industrial or academic scientists interested in three-month "summer sabbaticals" are also encouraged. Review of applications will begin December 15, 1994.

MARINE SCIENCE STUDENT FELLOWSHIP OPPORTUNITIES Spring Term, 1995

The Marine Laboratory of Duke University, School of the Environment, has full tuition, housing and travel support FELLOWSHIPS for four minority students participating in Spring Term 1995. Junior and senior level natural science majors study in small classes and conduct guided research. A mentor/tutor program is available for all participants. Apply with current transcript and recommendation, and a short form available from: Admissions, Duke University, School of the Environment, Marine Laboratory, Beaufort, NC 28516-9721. Telephone: 919-728-2111 or contact: bek@acpub.duke.edu.

SMITHSONIAN INSTITUTION FELLOWSHIP PROGRAM

GRADUATE STUDENT, PREDOCTORAL, POSTDOCTORAL, AND SENIOR FELLOWSHIPS 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.

FELLOWSHIPS IN MATHEMATICS AND MOLECULAR BIOLOGY

The Program in Mathematics and Molecular Biology has GRADUATE and POSTDOCTORAL FELLOWSHIP support available. Current topics in the Program include geometry, topology, sequence analysis of DNA, molecular dynamics, phylogenetic comparison, RNA, and algorithms for molecular structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Deadline For Applications: February 1, 1995. Women and minorities are encouraged to apply. Apply to: Program in Mathematics and Molecular Biology, 103 Donner Lab, No. 3206, University of California, Berkeley, CA 94720-3206. Email: sylviaj@violet.berkeley.edu.

POSITIONS OPEN

NIH-FUNDED POSTDOCTORAL FELLOWSHIP available immediately at the Center for Advanced Research in Biotechnology (CARB) for biochemist/molecular biologist with recent Ph.D. to join multidisciplinary team investigating molecular basis of antigen recognition by antibodies and T-cell receptors (TcRs). Projects include: 1) study of antibody specificity by site-directed mutagenesis and phage display and 2) X-ray crystallographic and solution binding studies of recombinant TcRs. Experience in heterologous protein expression in eukaryotic cells is highly desirable. (*Curr. Opin. Immunol.*, 5:50, 1993; *PNAS*, 91:1089, 1994; *J. Mol. Biol.*, 235:795; 238:496; 239:339; 241:739, 1994). CARB is a joint research center of the National Institute of Standards and Technology and the University of Maryland. Excellent facilities and opportunities for collaborative studies with crystallographers and physical biochemists. Send curriculum vitae and names of three references to: Dr. Roy Mariuzza, CARB, 9600 Gudelsky Drive, Rockville, MD 20850.

PLANT SCIENCE INSTITUTE University of Pennsylvania Graduate Fellowships in Structural and Molecular Genetic Studies

FELLOWSHIPS are available for graduate students to work with members of the Biology, Biochemistry/Biophysics, and Chemistry Departments at the University of Pennsylvania. Trainees will participate in a program in plant signal and energy transduction that will include coursework in plant molecular genetics, biological chemistry, and molecular biophysics. For further information 1) write to: Dr. Anthony R. Cashmore, Director, Plant Science Institute, Graduate Fellowships in Plant Science, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104-6018; or 2) send Email to cashmore@sas.upenn.edu or 3) send FAX to 215-898-8780.

POSTDOCTORAL FELLOWSHIP in Molecular Biology. A fellowship is available to work on DNA recombination as part of a project on targeted insertion of genes for human gene therapy. Successful candidate should have experience in molecular biology and an interest in DNA recombination. Ph.D. in biochemistry or molecular biology from a well-recognized institution or research experience in a well-recognized laboratory extremely helpful. Salary competitive. Please send curriculum vitae and names of individuals who can be contacted for references to: D.J. Prockop, Department of Biochemistry and Molecular Biology, Jefferson Institute of Molecular Medicine, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107-5595. FAX: 215-955-5393. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately which require a strong background in protein biochemistry and molecular biology.

1. Studies of the interactions of lipoprotein(a) with fibrinolytic regulatory molecules. Contact: Lindsey A. Miles, Ph.D., Department of Vascular Biology (VB-1), The Scripps Research Institute, 10666 North Torrey Pines Road, La Jolla, CA 92037.

2. Proteolytic processing of neuroendocrine molecules. Contact: Robert J. Parmer, M.D., Department of Medicine (9111-H), University of California, San Diego, La Jolla, CA 92161.

CEDARS-SINAI MEDICAL CENTER POSTDOCTORAL FELLOW

Fellows in Neurology will be involved in the molecular genetic study of neurodegenerative disorders and the molecular analysis of familial CNS tumors. Requires a Ph.D. or M.D. degree with a background in molecular and positional cloning. Please send full curriculum vitae plus names and addresses of two references to: Job No. 1940193, Dr. Stefan M. Pulet, Cedars-Sinai Medical Center, SSB 610, 8723 Alden Drive, Los Angeles, CA 90048. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION: Participate in three year project concerned with understanding mechanism of photochemical inactivation of bacteria/virus in blood components. Candidates should have some experience in viral plaque assays and/or photochemistry/photobiology. State-of-the-art R&D facility. Competitive salary and excellent employee benefits. Submit résumé to: Stephen Wagner, Ph.D., Holland Laboratory, Product Development Department, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855. Equal Opportunity Employer, Male/Female/Disabled/Veterans.

HEAD DEPARTMENT OF MEDICINE UNIVERSITY OF MINNESOTA

The University of Minnesota invites applications for the position of tenured Professor and Head of the Department of Medicine. The successful candidate will direct a large program at the University and its affiliated hospitals. The University seeks a board certified internist of national and international prominence who will promote the Department's long tradition of academic excellence and scientific accomplishments.

Qualifications of candidates for the rank of Professor with tenure must include national distinction in internal medicine and demonstrated leadership in patient care, teaching, research, and administration. A commitment to graduate and post-graduate education is necessary. The deadline for receipt of applications/nominations is January 15, 1995. Start date is negotiable. Interested applicants should send a copy of their curriculum vitae to:

Alfred F. Michael, M.D.
Chair, Medicine Search Committee
University of Minnesota Medical School
Box 293 UMHC; ATTN: S. Jackson
420 Delaware St. S.E.
Minneapolis, MN 55455-0392
Phone 612-624-3113
e-mail: sjackson@maroon.tc.umn.edu

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BIOSCIENCE JOB FAIRS

Life Science Associates announces our 1995 schedule - a full complement of recruiting events designed for professionals in the biotech, pharmaceutical & medical device industries!

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July 10-11 - Boston

August 10-11 - San Diego

September 19 - San Francisco

October 23 - Boston

East Coast Diversity Day



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RESEARCH SCIENTIST MOLECULAR BIOLOGY

*for the isolation and study
of receptors and related targets*

**The Research Division
of a leading
FRENCH PHARMACEUTICAL
COMPAGNY located
in the PARIS REGION
is seeking a
Research scientist
molecular biology**

*The desired candidate
should have at least **two
years post-doctoral
experience, a broad
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cular biology, and a
knowledge of molecular
pharmacology.***

*This position provides
the opportunity for a **creative, flexible and highly
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*Please submit a CV, a photo and a hand written letter to
PUBLIVAL/10038 - 27 Route des Gardes - 92190 MEUDON
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THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY Department of Chemistry

The Hong Kong University of Science and Technology, with the mandate to become one of the eminent technological research universities in the world, was opened in October 1991, with programmes at both undergraduate and postgraduate levels. The medium of instruction is English. The Department of Chemistry invites applications for the following positions in all areas of chemistry: **PROFESSOR**: min. US\$117,400 p.a.; **READER**: US\$85,800-US\$114,000 p.a.; **SENIOR LECTURER**: US\$82,300-US\$110,500 p.a.; **LECTURER**: US\$52,900-US\$88,400 p.a. The research thrust of the Chemistry Department includes: 1) Novel Analytical Techniques (NAT); 2) Laser Spectroscopy and Applications (LSA); 3) Advanced Materials/Polymers (AMP); and 4) Drug Discovery, Design and Synthesis (D³S). Applications in response to earlier advertisements will automatically be reviewed and such candidates need not re-apply. Generous fringe benefits including medical and dental benefits, annual leave, and children's education allowances are provided. Air passages and housing are also provided where applicable. Initial appointments will generally be on a three-year contract: a gratuity of an amount equal to 25% of the basic salary drawn will be payable upon successful completion of contract. Re-appointment after the initial contract will be subject to mutual agreement. Approved sabbatical leave will be at full salary. Applications should be sent with a C.V., together with names and addresses of three referees, to **Professor Nai-Teng Yu (for NAT and LSA), Professor H. Hiraoka (for AMP), or Dr. Richard Haynes (for D³S), Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (Fax: 852-358-1594) by January 15, 1995**, but the search will continue until suitable appointments are made.

POSITIONS OPEN

POSTDOCTORAL POSITION. Available immediately for well funded new initiative to study cell growth regulation and signal transduction for a candidate with strong background in molecular biology. Please send curriculum vitae and three letters of recommendation to: **Dr. Sarah Spiegel, Department of Biochemistry and Molecular Biology, Georgetown University Medical Center, 307 Basic Science Building, 3900 Reservoir Road, NW, Washington, DC 20007. Telephone/FAX: 202-687-1432. Affirmative Action/Equal Opportunity Employer.**

A limited number of **POSTDOCTORAL FELLOWSHIPS** are available in 1995 in marine sciences, aquaculture, coastal and environmental sciences, biomedical marine research, ocean engineering, and environmental analysis and monitoring. Deadline for application is 31 January 1995. Stipends are \$22,540 for the annual appointment. Specify area of interest with request for information brochure and application packet from the **Johnson Marine Education Center, Harbor Branch Oceanographic Institution, Inc., 5600 U.S. 1 North, Ft. Pierce, FL 34946. Equal Opportunity/Affirmative Action Employer.**

UNIVERSITY OF PENNSYLVANIA TRAINING PROGRAM IN COMPUTATIONAL BIOLOGY

The University of Pennsylvania has established an interdisciplinary training program for Ph.D. students, and for postdoctoral researchers, in computational biology. Areas of interest include biological databases, multiple sequence alignment, molecular evolution and phylogeny reconstruction, physical and genetic mapping, sequence search and analysis, statistical methods, discrete algorithms and combinatorial optimization in biology. Postdoctoral applicants with an interest in this interdisciplinary research, and with a Ph.D. in any one of the core disciplines (mathematics, computer science, the biological sciences, statistics), should contact: **Dr. Tandy Warnow, Department of Computer and Information Science, University of Pennsylvania, Philadelphia, PA 19104, tandyc@central.cis.upenn.edu**, from whom further information is available. Admission to the predoctoral program requires acceptance into a regular Ph.D. program at the University of Pennsylvania. Applicants should also, in the first instance, contact **Dr. Warnow**. Closing date: 30 November 1994. *Affirmative Action/Equal Opportunity Employer.*

RESEARCH TRAINING FOR DENTAL GRADUATES

Two (2) positions are available in an NIH-supported advanced postdoctoral research program at the University of Louisville School of Dentistry. Areas of research include Cell and Molecular Biology, Immunology, Endocrinology, Microbiology, and Biochemistry. Term of appointment, two to three years. Candidates should have a dental degree and postgraduate training or a demonstrated interest in research. U.S. citizenship or permanent residency required. Competitive salaries. Contact **Linda Mitchell, 301 School of Dentistry, 501 South Preston Street, Louisville, KY 40292. Telephone: 502-852-7507; FAX: 502-852-7240.**

POSTDOCTORAL RESEARCH ASSOCIATE

To examine molecular and structural biology of fatty acid and sterol carrier proteins, lipid interaction, and function. Ph.D. or equivalent in biochemistry, chemistry, physics or related field. Experience in molecular biology or time-resolved fluorometry desirable. Send curriculum vitae and three letters of reference to: **Dr. F. Schroeder, Department of Veterinary Physiology and Pharmacology, Texas A&M University, College Station, TX 77843-4466. Texas A&M University is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL/RESEARCH ASSOCIATE Position (Plant Modeling/Plant Physiology) is available immediately to join in development of computer simulation models for sweet potato and peanut grown in controlled environments and under field conditions. Design of experiments for validating models also expected. A Ph.D. in plant or other life sciences with a strong background in modeling or biometry preferred. Send résumé and three references to: **Dr. Phil Loretan, Campbell Hall, Tuskegee University, Tuskegee, AL 36088. Telephone: 205-724-4461; FAX: 205-724-4451. Women and minorities are encouraged to apply.**

POSITIONS OPEN

RESEARCH OPPORTUNITIES AT THE W. ALTON JONES CELL SCIENCE CENTER

GRADUATE, POSTDOCTORAL AND VISITING SCIENTISTS PROGRAMS. The Center participates in a graduate program with Clarkson University, Potsdam, New York, and the University of Vermont, Burlington, Vermont. Course work is taken at the University and research work is conducted at the Center. This program is open to excellent candidates who have completed their undergraduate degree. Students, Postdoctorals and Visiting Scientists participate in projects within laboratories of Senior Scientists.

The W. Alton Jones Cell Science Center is located in the heart of the Adirondack State Park, Lake Placid, New York. The Center is equipped with state-of-the-art equipment (amino acid analyzer, amino acid and DNA sequencers, mass spectrometer, peptide and DNA synthesizers and various other analytical instruments) for studies in cell and developmental biology. Salaries and benefits are competitive. Send curriculum vitae, names and telephone numbers of three references and summary of research interests to: **Ms. Andrea Terwilliger, W.A.J.C.S.C., 10 Old Barn Road, Lake Placid, NY 12946. The Cell Science Center is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE (12-month, full-time position, one year duration with possibility of annual renewals at discretion of Director) to work on five-year NIH grant. Research includes oncogene mutagenesis, molecular dosimetry, cancer dose-response, mechanisms of cancer inhibition. Opportunity for highly productive research, world-class facilities, beautiful Willamette Valley setting. Closing date December 2, 1994, or until filled. Send letter of application, curriculum vitae, reprints, and have three letters of recommendation sent to: **Dr. George Bailey, 232 Wiegand Hall, Oregon State University, Corvallis, OR 97331. Oregon State University is an Affirmative Action/Equal Opportunity Employer and is responsive to dual-career needs.**

MOLECULAR CELL BIOLOGIST

RESEARCH SCIENTIST POSITION to join a group of 10 investigators exploring hormonal and age-dependent regulation of transcription factors. Ph.D. with two years of experience in eukaryotic molecular biology is required. Stimulating academic environment with generous support and excellent living conditions. Research will be under the direction of **Arun K. Roy, Ph.D., Professor of Cellular and Structural Biology. Send curriculum vitae and names of three references to: The Office of Human Resources, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7972.**

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POSTDOCTORAL RESEARCH ASSOCIATE

Funded position is available for a molecular-cellular neurobiologist to investigate the regulation of cell dynamics including molecular senescence in the olfactory system. Documented experience and publications in the use of contemporary molecular and cell biological techniques required. Send curriculum vitae, brief statement of research interests, names and telephone numbers of three references by December 1, 1994, to: **Thomas V. Getchell, Ph.D., Department of Physiology/Sanders-Brown Center on Aging, University of Kentucky Medical Center, Lexington, KY 40536-0084.**

TERRESTRIAL ECOLOGIST/ BIOGEOCHEMIST ENVIRONMENTAL DEFENSE FUND

The Environmental Defense Fund, a national not-for-profit research and advocacy organization, seeks a **TERRESTRIAL ECOLOGIST** or **BIOGEOCHEMIST** to fill the position of associate scientist in its New York office. Applicants should have interest and research experience in problems related to global environmental change with an interest in the policy applications of their research. Specific disciplinary background is less important than a proven record of interdisciplinary research. Salary will be commensurate with experience. Anticipated starting date is October 1, 1995. Review of applications begins January 3, 1995. Send letter of application, curriculum vitae, and the names of three references to: **Dr. Steven Hamburg, GAP Search, Environmental Defense Fund, 257 Park Avenue South, New York, NY 10010. Women and persons of color encouraged to apply; Equal Opportunity Employer.**

POSITIONS OPEN



SOIL SCIENTIST (PHOSPHORUS)

The Agricultural Research Service, USDA, University Park, Pennsylvania, has an opening for a permanent full-time **SOIL SCIENTIST** to lead research to define and manage the critical factors controlling P losses from fields, landscapes, and watersheds, and to develop and conduct research on the chemical factors controlling these P losses. Demonstrated experience required in: 1) formally leading research projects; and 2) publication record, with emphasis on the chemical aspects of P cycling or controlling losses. Candidates must be U.S. citizen; have a degree in Soil Science or related discipline that included 30 semester hours in biological, physical or earth science and 15 semester hours in soil chemistry, soil physics, and soil fertility; have knowledge of the phosphorus-water-soil-sediment-plant system; and the ability to design, plan, and conduct research and publish results. Salary commensurate with experience (\$49,401 to \$68,667 per year). For copy of the position description call **Teri Jordan at 814-863-0939** or **FAX: 814-863-0935**. For application package call **Angela Canterini at 301-344-1920**. Incomplete applications will not be considered. Applications in response to this advertisement must be marked **5N005** and mailed by December 23, 1994.

USDA/ARS is an Equal Opportunity Employer.

IN VIVO MRI/MRS SCIENTIST

The Pittsburgh NMR Center for Biomedical Research has a position available for an outstanding **SCIENTIST** with expertise and experience in MRI/MRS techniques, theory, and applications to study animal physiology. The Center has active projects from investigators at Carnegie Mellon University and the University of Pittsburgh. Emphasis is on applications of NMR to transplantation surgery, cellular energy metabolism, combining NMR and molecular biological techniques, and development of novel imaging and spectroscopic techniques. The candidate will be expected to pursue collaborative as well as their own research interests. The Center houses a 4.7T/40cm Bruker Biospec II imaging spectrometer. Personnel in the Center also have access to a 2.35T/31cm and a 7.0T/15cm imaging spectrometer. Interested candidates should send a curriculum vitae, statement of research interests, and three letters of reference to: **Dr. Chien Ho, Pittsburgh NMR Center for Biomedical Research, Carnegie Mellon University, 4400 Fifth Avenue, Pittsburgh, PA 15213-2683.**

Carnegie Mellon University is an Equal Opportunity/Affirmative Action Employer.

CYTOGENETICIST

The Department of Pathology and Laboratory Medicine at St. Jude Children's Research Hospital is seeking a full-time, Board-certified or -eligible, **CYTOGENETICIST**. The candidate should have experience in the cytogenetics of neoplasia and a strong background in related molecular techniques. The position would provide a qualified individual the opportunity to introduce new technologies and participate in the growth and expansion of the department. The level of appointment will be determined by background and training experience. Send curriculum vitae, names of three references, and a letter of interest to:

**Susana C. Raimondi, Ph.D.
Director, Cytogenetics Laboratory
St. Jude Children's Research Hospital
332 North Lauderdale
Memphis, TN 38105-2794**

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH FELLOW

Available Immediately: **POSTDOCTORAL POSITION** to work on an NIA-supported project examining the role of oxidant/antioxidants in T cell activation during aging. Ph.D. in Immunology/Biochemistry or related fields is required. Experience in molecular biology techniques is highly desirable. Interested candidates should send résumé and name of three references to: **Dr. Simin Nikbin Meydani, Jean Mayer USDA Human Nutrition Research Center on Aging at Tufts University, 711 Washington Street, Boston, MA 02111. An Affirmative Action/Equal Opportunity Employer.**



TWO FACULTY POSITIONS IN COMPLEX SYSTEMS AND BRAIN SCIENCE are anticipated at Florida Atlantic University. At least one will be at the senior level. The positions are assigned to FAU's Center for Complex Systems which has a NIMH sponsored multidisciplinary training program for pre- and postdoctoral fellows, as well as a newly approved Ph.D. Degree in Complex Systems and Brain Sciences. Successful applicants will also join an affiliated department, e.g., Psychology, Mathematics. We seek outstanding individuals capable of generating extramural support wishing to research and teach in an explicitly interdisciplinary setting. Although the area of specialization is open, the successful candidates will complement existing strengths and possess a demonstrated interest in extending dynamical systems theory to behavioral or brain sciences, especially cognition or psychobiology. Please send a complete curriculum vitae, representative reprints and three letters of reference by December 14, 1994 to J.A.S. Kelso, Florida Atlantic University, Center for Complex Systems, 777 Glades Road, Boca Raton, FL 33431.

A postdoctoral **RESEARCH ASSOCIATE** and two **PREDOCTORAL FELLOWSHIPS** are also available. Please make inquiries to the above address. Florida Atlantic University is an EEO/AA employer.

UNIVERSITY OF ILLINOIS AT CHICAGO OFFICE OF THE VICE CHANCELLOR FOR RESEARCH

The Office of Research Services (ORS) is seeking nominations and applications for four (4) **Program Coordinator** positions in biomedical sciences, physical science and engineering, social sciences and humanities. The purpose of ORS is to provide faculty with funding information and assistance in the development and preparation of external proposals. ORS also provides assistance in the coordination of larger group projects potentially leading to the establishment of research centers.

Must have an understanding of the support and conduct of research in an academic environment and strong interpersonal, organizational and communication skills. An advanced degree in an appropriate field is required.

For full consideration, send a cover letter, complete resume, and the names and addresses of at least three references by November 28, 1994 to:

**Ms. Donna J. Debelak,
Search Coordinator
Office of the Vice Chancellor for
Research (M/C 672)
University of Illinois at Chicago
1737 W. Polk St., 310 AOB
Chicago, IL 60612**

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



Parasitologist—The Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University seeks a parasitologist to participate in teaching and research missions of the college. The individual selected to fill this Assistant Professor tenure track position will devote approximately 45% effort to classroom and clinic rotation instruction of veterinary medical students in the second and fourth years of the professional curriculum. Part of this instruction includes analysis and diagnosis of parasite infections in animals and materials submitted to the Veterinary Teaching Hospital. Approximately 5% effort will be devoted to the betterment of the department, college, and university through participation in departmental meetings and service on committees. The remaining 50% time will be devoted to research activities. The individual will develop an extramurally-funded research program emphasizing the use of current technology to investigate diseases caused by protozoa or helminths. The scope and impact of research will be sufficient to provide quality research training opportunities for students seeking the PhD degree. Applicants for this position will have DVM (or equivalent) and/or PhD degrees. Preference will be given to those applicants with two or more years of postdoctoral research experience. Salary is negotiable. Starting date is July 1, 1995. Applicants should send letter of application, curriculum vitae, and names of 3 references to Dr. Bruce Hammerberg, Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606, (919) 829-4200 or (919) 829-4455 (FAX). Application closing date is January 10, 1995 or until a suitable candidate is chosen.

North Carolina State University is an Equal Opportunity/Affirmative Action Employer

Microbiologist—The Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University has an opening for an individual with research and clinical microbiology skills. The individual selected to fill this tenure track position will direct the activities of the Clinical Microbiology Laboratory in the Veterinary Teaching Hospital. In this capacity, s/he will supervise staff in providing diagnostic bacteriology services, and in developing new diagnostic procedures that will increase the scope, speed, and accuracy of diagnostic services provided through the laboratory. S/he will also coordinate staff activities in providing instruction to veterinary medical students, residents, and graduate students who rotate through the laboratory. These duties and responsibilities will occupy about 45% of the individual's time. Approximately 5% effort will be devoted to the betterment of the department, college, and university through participation in departmental meetings and service on committees. The remaining 50% time will be devoted to research. The individual will develop an extramurally-funded research program emphasizing the use of current technology to investigate infectious disease problems. The scope and impact of research will be sufficient to provide quality research training opportunities for veterinarians seeking the PhD degree. Combined research and clinical microbiology skills will enable the selected candidate to assume a leadership role in developing a training program for veterinarians seeking diagnostic microbiology skills, certification by the American College of Veterinary Microbiologists, and research training sufficient to prepare them for successful careers in biomedical research. This training program will be established in collaboration with other faculty members. Applicants for this position will have DVM (or equivalent professional medical) and PhD degrees. Preference will be given to those who are certified by the American College of Veterinary Microbiologists or the American Society of Microbiologists. Rank and salary are negotiable. Starting date is July 1, 1995. Applicants should send letter of application, curriculum vitae, and names of 3 references to Dr. Paul Orndorff, Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606, (919) 829-4207 or (919) 829-4455 (FAX). Application closing date is January 10, 1995 or until a suitable candidate is chosen.

North Carolina State University is an Equal Opportunity/Affirmative Action Employer

Toxicologic Pathologists—The Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University has two openings for veterinary anatomic pathologists with specialty training and research interests in toxicology. The individuals selected to fill these tenure track positions will establish research and graduate training programs in the area of toxicologic pathology that will provide state of the art training opportunities for individuals seeking careers as toxicologic pathologists. One tenure track position is available at the rank of **Associate Professor or Professor**. Applicants for this position will have DVM (or equivalent) and PhD degrees. Preference will be given to individuals who are certified by the American College of Veterinary Pathologists. The candidate selected for this position will have at least 50% time available for research. S/he will utilize demonstrated skills to establish an extramurally-funded program in toxicology. Approximately 5% effort will be devoted to the betterment of the department, college, and university through participation in departmental meetings and service on committees. The remainder of the position is committed to graduate education, and instruction of veterinary students in classroom and/or teaching hospital rotations. The individual selected to fill this senior level position will assume a leadership role in expanding a research training program for veterinarians, possessing diagnostic pathology skills, who seek specialized toxicology research training sufficient to prepare them for successful careers in biomedical research. This expanded research training program will be conducted in collaboration with other faculty members, and collaborators in the Research Triangle Park. The second tenure track position is available at the rank of **Assistant Professor**. Applicants will have DVM (or equivalent) and PhD degrees. Preference will be given to those who are certified by the American College of Veterinary Pathologists (ACVP). The individual selected for this position will commit approximately 45% effort to graduate education, and instruction of veterinary students in classroom and teaching hospital rotations. Approximately 5% effort will be devoted to the betterment of the department, college, and university through participation in departmental meetings and service on committees. The remaining 50% time will be devoted to toxicology research, for which the individual will acquire extramural support. Salary for both positions is negotiable. Starting date is July 1, 1995. Applicants should send letter of application, curriculum vitae, and names of 3 references to Dr. Talmage T. Brown, Jr., Department of Microbiology, Pathology, and Parasitology, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606, (919) 829-4258 or (919) 829-4455 (FAX). Application closing date is January 10, 1995 or until suitable candidates are chosen.

North Carolina State University is an Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN



FRED HUTCHINSON CANCER RESEARCH CENTER

STAFF SCIENTIST MOLECULAR BIOLOGY

The Fred Hutchinson Cancer Research Center, a multidisciplinary research facility, is seeking Ph.D.-level molecular biologists for a staff scientist position. Ph.D. in Molecular Biology, Biochemistry or related field and significant laboratory experience required. The Hutchinson Cancer Center is located in Seattle, a dynamic city with exceptional scenic and recreation opportunities. Salary DOE plus excellent benefits and a smoke-free environment. On site child care. Please send curriculum vitae to:

Fred Hutchinson Cancer Research Center
Human Resources, No. DS-5121
1124 Columbia Street, LV-201
Seattle, WA 98104

We are an Equal Opportunity Employer committed to work force diversity.

USDA, Agricultural Research Service announces an Interdisciplinary: **SUPPORT SCIENTIST** position for a Geneticist, Horticulturist, or Plant Molecular Biologist. This is a term appointment not to exceed four years. The assigned duty station is Walt Disney World, EPCOT Center, Orlando, Florida. Research will focus on development of a system for transforming peach shoot meristems with modified fruit ripening genes as part of a team effort aimed at genetic improvement of peach. The incumbent will be required to present research results to both the scientific community and the public. The position requires knowledge of and skill in plant molecular biology and plant tissue culture techniques. Salary range: \$28,648 to \$34,662 commensurate with experience. For information on application procedures, contact **Janie Carr, PD**, at 301-344-4569. For project information contact **Dr. Ralph Scorza, USDA, ARS, AFRS at 304-725-3451**. Applications should be marked 5N003, and must be postmarked by November 30, 1994. Mailing Address: **USDA, ARS, POB/NS, 6305 Ivy Lane, Room 328, Greenbelt, MD 20770-1435**. An Equal Opportunity Employer.

GENETICS/MOLECULAR GENETICS ONE YEAR SABBATICAL REPLACEMENT

Fall semester: genetics course (three lectures and one two-hour lab) required for upper-level biology majors. There are five laboratory sections. Spring semester: molecular genetics (four lectures and one four-hour lab) and developmental biology (three lectures and one two-hour lab) or several sections of a general organismal course. These are elective courses for upper-level biology majors. January Term: One introductory level general interest course. Ph.D. preferred in Genetics or Molecular Genetics. Demonstrated teaching ability will be considered a valuable asset. Send letter of application stating qualifications; statement of teaching philosophy; curriculum vitae; transcripts and three letters of recommendation to: **Robert A. Bellig, Chair, Biology Department, Gustavus Adolphus College, 800 West College Avenue, St. Peter, MN 56082**. Applicant review begins 30 November 1994. *Gustavus Adolphus is a highly selective liberal arts school located 75 miles south of the Twin Cities. Gustavus Adolphus College is an Equal Opportunity Employer and encourages applications from women and minority groups.*

COTTON AGRONOMIST (ASSISTANT/ASSOCIATE). Lead statewide extension education/training programs in cotton production systems. Develop research program applied to cotton production (75% Cooperative Extension/25% Organized Research). Require: Ph.D./equivalent experience level in agronomy, crop ecology or crop protection/pest management. Experience in crop production agriculture of cotton or similar crop. Send curriculum vitae; transcripts; statement of research/teaching experience; publication list; maximum of five reprints/publications; name/address/telephone/FAX of five professional references to: **Department of Agronomy and Range Science, University of California, Davis, CA 95616-8515**. Attn: R. Plant, Search Chair. Telephone: 916-752-1705; FAX: 916-752-4361. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

NATIONAL UNIVERSITY OF SINGAPORE FACULTY OF MEDICINE RESEARCH SCIENTIST (Hematopoiesis and Stem Cell Biology)

We seek an experienced **RESEARCH SCIENTIST** to lead a hematopoietic stem cell research team as Principal Investigator. The successful applicant should have a strong background of independent research in hematopoiesis and stem cell biology and should be able to direct research in these areas. His/her team will work closely with the Bone Marrow Transplant Program at the National University Hospital. Salary will be commensurate with qualifications and experience. Applications should be sent to: **Director, National University Medical Institute, c/o Dean's Office, Faculty of Medicine, National University of Singapore, 10 Kent Ridge Crescent, Singapore 0511**. Enquiries may also be sent through Telefax: (65)7785743.

OPEN EXAMINATION FOR SUPERVISING TOXICOLOGIST

The California Environmental Protection Agency, Department of Pesticide Regulation seeks a **SUPERVISING TOXICOLOGIST** to manage the pesticide regulatory program. Requirements: Five years of postdoctoral experience in toxicology or closely related field. This experience must have included the interpretation of toxicological findings relative to probable human health, one year of experience in the development and design of toxicological research and investigative studies, and two years of experience in supervisory or management positions. The position is located in Sacramento. Salary Range: \$5,332-\$6,450 per month. Comprehensive benefits package. Submit application and résumé to the address below by the Final File Date: **December 20, 1994**.

Department of Pesticide Regulation
Personnel/Examination Unit
1020 N Street, Room 126
Sacramento, CA 95814
Attn: SDJ

For State application and announcement call 916-322-4553.

UNIVERSITY OF CALIFORNIA SAN FRANCISCO Cardiovascular Research Institute

SENIOR MICROSCOPY TECHNICIAN to run daily operation of Core Microscopy Laboratory. Requires ability to supervise multi-user research laboratory, excellent interpersonal and technical skills, and extensive experience in using, maintaining, and training individuals to use confocal and fluorescence microscopes and transmission electron microscopes. Send or fax résumé by December 1, 1994, to: **UCSF Personnel, Job No. B1583V, 1350 7th Avenue, San Francisco, CA 94143-0832**. FAX: 415-476-4672. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

HORTICULTURAL TAXONOMIST

Applicants with a broad background in plant systematics are invited to apply for the lead position in a research group in Horticultural Taxonomy. Experience with cultivated plants preferred. Ph.D. required with a knowledge of nomenclature and competent database skills. Apply by sending curriculum vitae, a letter with statement of research interests and goals, and names and addresses of three references to: **Ms. R. Cabiness, Personnel Director, Brooklyn Botanic Garden, 1000 Washington Avenue, Brooklyn, NY 11335-1099**. Review of applications begins 16 January 1995. An Equal Opportunity/Affirmative Action Employer.

AQUATIC ECOLOGIST

The Nature Conservancy seeks experienced **AQUATIC ECOLOGIST** to develop national approach to identify conservation priorities for freshwater aquatic communities through classification and inventory, and test in Great Lakes Basin. Two year, Chicago-based position with good potential for continuation. Requires advanced degree, broad knowledge of freshwater communities, their inventory and classification, experience in Great Lakes basin. Contact: **TNC Great Lakes Program Office, 79 West Monroe, Suite 1309, Chicago, IL 60603**. Telephone: 312-759-8017.

POSITIONS OPEN



STAFF SCIENTIST/SENIOR SCIENTIST

The **BOSTON BIOMEDICAL RESEARCH INSTITUTE** invites applications from investigators in the broad field of molecular and structural cell biology. Preference will be given to applicants with interests in the areas of cell motility and non-muscle contractility, cell growth, and cell signalling. Generous start-up funds are available. Successful applicants are expected to develop a strong, extramurally funded research program. The Boston Biomedical Research Institute is an independent biomedical research center that offers an exceptionally collegial and intellectually stimulating environment. Applicants should submit a curriculum vitae, a description of research interests, and names of three referees to: **Miss Mary Caulfield, Secretary to the Search Committee, Boston Biomedical Research Institute, 20 Staniford Street, Boston, MA 02114**. *Boston Biomedical Research Institute is an Equal Opportunity Employer.*

ANNOUNCEMENT

PARKINSON RESEARCH GRANTS 1995-1996

The National Parkinson Foundation of Miami, Florida invites the submission of grant proposals for Parkinson research. Funding is made available to support basic bench research in Parkinson's disease. The award for a single grant will not exceed \$40,000. None of the monies are to be utilized for administrative overhead or travel expenses. The application deadline is February 1, 1995. Funding will commence on June 1, 1995. It is required that proposed studies specifically focus on mechanisms involved in the disease process and that they have the potential of finding the cause and prevention of Parkinson's disease. Scientists entering the field of Parkinson research are encouraged to apply. Proposals will be assessed by the National Parkinson Foundation Scientific Advisory Board. To obtain submission information please write to:

National Parkinson Foundation
Research Grants Administrator
1501 N.W. 9th Avenue
Miami, FL 33136

SYMPOSIUMS

SYMPOSIUM: Stem Cells: Prospects for the Clinic; February 6 and 7, 1995; Hyatt Ricketts, Palo Alto, CA. **SPEAKERS:** I. Weissman, Stanford; G. Spangrude, Utah; D. Emery, MGH; R. Hoffman, SyStemix; S. Heimfeld, Cell-Pro; R. Tushinski, SyStemix; M. Moore, Sloan Kettering; R. Mertelsmann, Germany; J. E. Wagner, Minn; R. O'Reilly, Sloan Kettering; R. Mulligan, MIT; E. Gilboa, Duke; J. Lebkowski, AIS; S. Chatterjee, City of Hope; D. Bodine, NIH; D. Kohn, UCLA; A. Deisseroth, M. D. Anderson; D. Valerio, IntroGene; C. Bordinon, Italy; D. DiGiusto, Progenesis; A. Galy, SyStemix; F. Gage, UCSF; S. Weiss, Calgary; J. Rhim, Penn; D. Sasaki, SyStemix; R. Knazek, Cellico; G. Reves, Ingenex; D. Harris, Arizona. Abstracts due January 28, 1995. Organizers: J. Larrick¹ and J. Mulé.

Sponsor: 1. Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mt. View, CA 94043. FAX: 415-694-7717; Telephone: 415-694-1420; Email: PAIMM@AOL.com.

SYMPOSIUM: Fluorescent Proteins and Applications; March 6 and 7, 1995; Hyatt Ricketts, Palo Alto, CA. **SPEAKERS:** Roger Beachy, Scripps Research Institute; John Blinks, Univ. of Wash.; Roger Brent, Mass. General Hospital; Marie Chow, Univ. of Arkansas; Frederic Fay, Univ. of Mass. Med Center; Nina Federoff, Carnegie Institute of Wash.; Scott E. Fraser, Calif. Institute of Technology; Alexander Glazer, U.C.B.; Woody Hastings, Harvard; Nancy Hopkins, MIT; Steve Kay, Univ. of Virginia; Douglas Prasher, USDA/APHIS; Franklyn Prendergast, Mayo Foundation; Pamela Silver, Dana Farber Cancer Institute; Roger Tsien, U.C.S.D.; Peter Walter, U.C.S.F. Abstracts due: February 27, 1995.

Organizer: Douglas C. Youvan, Ph.D. and James W. Larrick, M.D., Ph.D.

Sponsor: Palo Alto Institute of Molecular Medicine, 2462 Wyandotte Street, Mt. View, CA 94043. FAX: 415-694-7717; Telephone: 415-694-4996; Email: PAIMMFP@AOL.com.

UNIVERSITY OF PORTLAND ENDOWED CHAIR IN SCIENCE

The College of Arts and Sciences invites applications for the newly established Rev. John Molter, C.S.C., Chair in Science anticipated to begin in the fall of 1995. The successful applicant will be appointed to a tenure-track position, with senior rank, in biology, chemistry, or physics. An established record of exemplary university teaching experience, especially at the undergraduate level; distinguished scholarship, involvement in student research; exceptional university, professional, and community/public service; an earned doctorate in one of the science disciplines; and an understanding of and commitment to support the mission of the University are required. There is a strong preference for a recognized leader in the science community who will actively teach science to non-science majors at the undergraduate level and who will explore the relationship of science to society. Founded in 1901, the University is a private Catholic teaching university and particularly welcomes candidates who desire to work in such an environment. Applicants should submit a letter of application which includes information about his/her interest in the role of science in society, curriculum vitae, transcripts, evidence of teaching ability, and three letters of recommendation to: John Molter Chair Search Committee, College of Arts and Sciences, University of Portland, 5000 N. Willamette Blvd., Portland, OR 97203-5798, scichair@uofport.edu.

UNIVERSITY OF PITTSBURGH SENIOR VICE CHANCELLOR FOR THE HEALTH SCIENCES

The University of Pittsburgh invites applications and nominations for the position of Senior Vice Chancellor for the Health Sciences.

The Senior Vice Chancellor is responsible, through the deans, for the undergraduate, graduate and professional programs in the six schools of the health sciences. Included in these responsibilities are the academic, research and clinical programs of the Schools of Dental Medicine, Health and Rehabilitation Sciences, Medicine, Nursing, Pharmacy and of the Graduate School of Public Health.

The University seeks a person of superior intellectual vision and ability to provide leadership for the health sciences as we move toward the 21st century. To this end, the Senior Vice Chancellor must play a key role in ensuring: that the University advances its record as a pioneer in health research; that research results are systematically and expeditiously translated into clinical and preventative advances; that the next generation of health professionals is trained not only in current standards of practice but with the skills essential to meet new demands; that practicing professionals are kept abreast of the newest findings and techniques through continuing education programs; and that governmental and civic leaders are assisted in their efforts to achieve high quality care in a cost-effective manner.

Qualified candidates should have broad administrative experience, well-honed organizational and leadership skills, and the ability to deal creatively and effectively with the organizational, financial and managerial responsibilities of the office. Requirements include an earned doctorate, eligibility for senior faculty appointment, evidence of sound scholarship and demonstrated success in health sciences administration. An understanding of changes currently affecting our health care system is essential. Experience in an environment of managed care and competition is highly desirable.

The University of Pittsburgh is an independent, state-related research university and a member of the Association of American Universities. The University consists of 18 undergraduate, graduate and professional schools on the Pittsburgh campus, plus four regional campuses. It serves some 35,000 students. The University of Pittsburgh Medical Center is one of the largest and most highly respected in the nation. The health science complex is located on the main campus of the University and is set in the civic and cultural center of Pittsburgh. Education, research and service in the health sciences have long been an integral part of the University's mission, and the Senior Vice Chancellor for the Health Sciences is looked to as one of the leaders of the entire University community.

The Senior Vice Chancellor for the Health Sciences reports to the Chancellor, and works closely with the Provost, the President of the University of Pittsburgh Medical Center and Senior Vice Chancellor for Health Administration, and the Senior Vice Chancellor for Business and Finance in managing the academic, fiscal and administrative affairs of the University. The University has an open and forward-looking planning process, which encompasses both capital and operating budgets.

The University of Pittsburgh is an affirmative action/equal opportunity employer. Women and members of minority groups are encouraged to apply. The University also offers an excellent salary, benefit, and retirement package.

The search committee plans to begin reviewing candidate credentials in the month of November. Nominations and letters of application, with resume, should be sent, preferably by 1 December 1994, to:

**Chairperson
Search Committee for the Senior Vice
Chancellor for the Health Sciences
130 William Pitt Union
University of Pittsburgh
Pittsburgh, Pennsylvania 15260**

Consortium for a Strong Minority Presence at Liberal-Arts Colleges

MINORITY SCHOLAR-IN-RESIDENCE PROGRAM

With a view toward encouraging African-American, Asian-American, Hispanic-American, and Native American scholars to consider teaching and research careers at small liberal-arts colleges, the Consortium for a Strong Minority Presence at Liberal-Arts Colleges, an association of selective undergraduate institutions, has established the Minority Scholar-in-Residence Program. Applications are invited for the dissertation fellowship program or the post-doctoral fellowship program in all disciplines of the liberal arts and engineering. Applicants should be working toward the Ph.D. or the M.F.A. degree, or should have been awarded the degree no more than five years before application.

The Minority Scholar-in-Residence will receive a stipend equal to the typical salary for beginning instructors or assistant professors. Scholars will be expected to do some teaching and research, and to participate in other activities at the host institution under the supervision of a mentor. It is hoped that the scholars will, upon completion of their residency, qualify for tenure-track appointments at the host institution or a similar institution.

Scholars must be citizens of the United States and have had no more than five years of teaching or relevant work experience before receiving the award. Ideally, applicants for the dissertation fellowship program should have completed their research before the beginning of the fellowship year.

Among the member institutions of the Consortium, the following offer to sponsor minority scholars during the 1995-96 academic year: Bates College, Bowdoin College, Bryn Mawr College, Colby College, Colorado College, Davidson College, Franklin & Marshall College, Grinnell College, Haverford College, Macalester College, Oberlin College, Occidental College, Pomona College, Reed College, Rhodes College, Swarthmore College, Vassar College, Wellesley College, and Wheaton College.

The brochure describing the program and an application form may be requested by writing to: Frank Thomas, Special Assistant to the President, Grinnell College, P.O. Box 805, Grinnell, IA 50112-0810

Application deadline: December 5, 1994



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 ethnic minority candidates are especially encouraged. The University of Utah is an Affirmative Action/Equal Opportunity Employer and provides reasonable accommodation to the known disabilities of applicants and employees.



MOLECULAR MEDICINE AND GENETICS

Wayne State University

ASSISTANT, ASSOCIATE AND FULL PROFESSOR—The Center for Molecular Medicine and Genetics is expanding its research and training programs. Applications are invited for tenured/tenure-track faculty positions at the assistant, associate, or full professor level. Excellent research laboratories and support facilities are located in the School of Medicine, which is part of one of the largest medical centers in the United States. Candidates who are established, independent investigators with outstanding research and training accomplishments and have demonstrated ability to obtain extramural research funding are especially encouraged to apply. Although all research areas will be considered, candidates with expertise in eukaryotic molecular, cellular or developmental genetics, human genetic diseases or their animal models, human or model organism genome analysis, or gene therapy are especially encouraged to apply. Applicants should send complete *curriculum vitae*, a brief description of current and future research interests (3–4 pages), a bibliography and reprints of significant publications, and recommendations from at least three references by December 1, 1994, to:

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

Wayne State University is an equal opportunity/affirmative action employer and invites applications from all qualified individuals.

Wayne State University—People working together to provide quality service

Postdoctoral Fellowships for Minority Candidates

St. Jude Children's Research Hospital, a premier research center for biomedical research offers a minority postdoctoral fellowship. Minorities defined by NIH guidelines as underrepresented populations must be American citizens or a permanent resident. The fellowship was established by the American Lebanese Syrian Associated Charities/St. Jude Children's Research Hospital's Board of Governors. Recent M.D., Ph.D., D.V.M. or Pharm.D. fellows are eligible to train with leading scientists in several basic biomedical research laboratories which include biochemistry, experimental oncology, experimental hematology, genetic, infectious diseases, immunology, pharmaceutical sciences, molecular pharmacology, tumor cell biology and virology/molecular biology.

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

Minority applicants should provide a curriculum vitae, a brief description of their research interests, and have three references. This should be sent to:



Academic Programs
**St. Jude Children's
Research Hospital**
332 N. Lauderdale
Memphis, TN 38105
USA

All information must be received by December 31, 1994.

An Equal Employment/Affirmative Action Employer

Association for Chemoreception Sciences Minority Travel Fellowships

The Association for Chemoreception Sciences (AChemS) is pleased to announce the availability of ten travel fellowships for graduate students and scientists interested or considering a career in the chemical senses. The awards are funded by the National Institute on Deafness and Other Communication Disorders to defray the cost of travel, meals, lodging, and registration to attend the annual meeting of AChemS in Sarasota, Florida on April 19–23, 1995.

Members of African-American, Hispanic-American, Native American, Pacific Islander, or other ethnic or racial groups under-represented in chemosensory research will be considered. Applicants need not be AChemS members, but must be U.S. residents. Awardees will be selected according to their academic background, experience, and research interests.

Applicants are requested to submit a brief statement of their research interests, their curriculum vitae, two letters of recommendation, and an indication of the minority group with which they identify by January 5, 1995 to:

Travel Fellowship Committee
AChemS Business Office
220 Westridge Dr.
Tallahassee, FL 32304



ASSISTANT PROFESSOR BIOLOGY with research specialty in Ecology. Candidates able to contribute to departmental interests in the biology of the Southeastern Coastal Plain will be given preference. Teaching responsibilities include ecology for majors and general biology. This tenure-track position starts September 1, 1995. Salary commensurate with qualifications. Ph.D. at time of appointment and commitment to excellence in teaching and research required.

Send a *curriculum vitae*, letter of application, statement of personal teaching and research goals, and names of three references to: Ecology Position, Dr. John Averett, Chair, Department of Biology, Georgia Southern University, Statesboro, Georgia 30460-8042. Postmark deadline is December 15, 1994. FAX (912) 681-0845.

Georgia Southern University, a 14,000 student unit of the University System of Georgia, is located in Statesboro, a community of approximately 25,000 residents. The Biology Department is rapidly growing and has a strong commitment to teaching and research excellence. There are currently 25 faculty, a Callaway Chair of Research, 35 M.S. degree students, and 650 undergraduate majors. The G.S.U. Botanical Garden, the Institute of Arthropodology and Parasitology, the Smithsonian Institution's National Tick Collection and the G.S.U. Herbarium are located on campus and are affiliated with the department.

The names of applicants and nominees, résumés and other general nonevaluative information are subject to public inspection under the Georgia Open Records Act. Georgia Southern is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodation(s) in the application process under the Americans with Disabilities Act should notify the search chair.



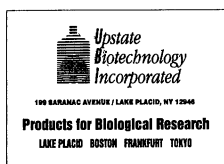
Executive Vice Chancellor

The University of Kansas Medical Center
The University of Kansas seeks applications or nominations for the position of Executive Vice Chancellor (EVC) of the Medical Center campus. The EVC is the principal administrative and academic officer of the Medical Center campus with direct responsibilities to the Chancellor of the University. The Medical Center campus includes the School of Medicine (Kansas City and Wichita), School of Nursing, School of Allied Health, Graduate Studies, and the University-owned hospital, providing both acute and chronic care and outpatient services. The Medical Center serves the needs of the metropolitan Kansas City area, the State of Kansas and the region. The EVC is expected to lead the Medical Center's teaching, patient care, and research programs and provide vision and innovation. Qualifications include an M.D. degree (preferred) or a Ph.D. in health care fields. The successful candidate must have extensive administrative experience at a university medical center and teaching hospital as a dean or vice chancellor or their equivalent.

The review of applications and nominations will begin on December 1, 1994.

Nominations, applications and inquiries should be directed to: Daniel Hollander, M.D., Chair-Search Committee for Executive Vice Chancellor, c/o Office of the Chancellor, 230 Strong Hall, The University of Kansas, Lawrence, KS 66045.

The University of Kansas is an Equal Opportunity and Affirmative Action Employer.



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MOLECULAR BIOLOGIST

Upstate Biotechnology, Inc. has a position immediately open for a Senior Scientist in molecular biology. The preferred candidate must be willing to interact and cooperate with other scientists working in the area of cell signalling.

Requirements include a Ph.D. in Biochemistry, Cell Biology or Molecular Biology with a minimum of three years of successful postdoctoral experience in Molecular Biology, preferably in an industrial environment. Candidates must have a strong background in recombinant DNA techniques including polymerase chain reaction technology, cDNA library construction and screening, plasmid construction, expression systems and protein production.

TECHNICAL SUPPORT SCIENTIST

Upstate Biotechnology, Inc. has a position immediately open for a Technical Support Scientist in the area of cell signalling. The candidate will interface with customers providing technical support about the company's products.

Requirements include a Ph.D. in Biochemistry, Cell Biology or a related field with a minimum of two to three years successful postdoctoral experience in cell signalling. The preferred candidate must possess good interpersonal skills and an excellent telephone manner.

We offer a competitive salary, moving expenses and excellent benefits. Interested qualified candidates should send their curriculum vitae and three professional references in confidence to: Josette Gaudreau, Upstate Biotechnology, Inc., 199 Saranac Avenue, Lake Placid, NY, 12946. Equal Opportunity Affirmative Action Employer.



CORNELL UNIVERSITY GRADUATE SCHOOL OF MEDICAL SCIENCES

announces a

Summer Internship Program for Minority College Students

The Cornell University Graduate School of Medical Sciences, located in New York City, is a semi-autonomous component of the Graduate School of Cornell University at Ithaca. It provides training leading to the Ph.D. degree in specific areas of the biomedical sciences. The school, which is composed of faculty drawn from Cornell University Medical College and The Sloan-Kettering Institute, has established a summer internship program for training under-represented minority college students in the biomedical sciences. The objective of the program is to awaken and foster an interest in biomedical research and it is aimed at students who plan to attend graduate school to get a Ph.D. degree. Students will gain hands-on research experience under the guidance of a faculty member. This program is open to students who have successfully completed their freshmen, sophomore, or junior years in college.

The program consists of semi-independent research projects carried out in laboratories at either Cornell University Medical College or Sloan-Kettering Institute, a seminar course on opportunities and career tracks for doctorates in the biomedical sciences, and a weekly journal club. Dates for the program are: **June 12 to August 4, 1995. Deadline for applying is February 15, 1995.**

Subsidized housing, a modest food allowance and a stipend of \$3,000.000 will be provided for the 8-week program. **Students must have medical insurance for the period involved.** Applicants must be U.S. citizens or have permanent visa status.

This program is supported by:

1. The Marcus M. Reidenberg Research Program receiving funding from the Departmental Associates of the New York Hospital-Cornell Medical Center and the Sloan-Kettering Institute
2. A training grant from the National Institutes of Health, National Heart, Lung, and Blood Institute.

To receive additional information and an application form call or write to.

**Ms. Francoise Freyre, Program Coordinator
Cornell University Graduate School of Medical Sciences
445 East 69th Street, New York, NY 10021
Phone: 212-746-6120
Fax: 212-746-8906**

ASSISTANT DIRECTOR

Bone Biologist

SmithKline Beecham, a worldwide leader in pharmaceutical research, is seeking an Assistant Director for the Bone Biology Unit within the Department of Cellular Biochemistry. This Unit carries out basic and applied research on many aspects of the cellular mechanisms involved in bone resorption and formation.

The selected individual will plan, implement and supervise research aimed at the discovery, evaluation and development of novel therapeutic agents for osteoporosis. The individual will be involved in hypothesis testing *in vitro* and *in vivo*, and the final selection of development candidate molecules. He/she will also take a leadership role in a variety of multidisciplinary osteoporosis research programs and will have direct supervisory responsibility for 6-8 scientists.

The qualified candidate will have a Ph.D. in Bone Biology, or related area, and a minimum of 4 years' postdoctoral experience, as well as an excellent record of scientific achievement as evident from publications, patents, symposia and presentations. Supervisory experience, excellent communication skills, and the ability to work effectively with individuals of varied backgrounds and disciplines are required. Industry experience is preferred.

Our state-of-the-art research facility is located in suburban Philadelphia, near Valley Forge, PA. SmithKline Beecham offers a competitive compensation benefits package and a stimulating team environment. For confidential consideration, send your resume to: SmithKline Beecham Pharmaceuticals, Dept. H0105, P.O. Box 799, Conshohocken, PA 19428. We are an Equal Opportunity Employer, M/F/D/V.



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Challenging the natural limits.

Head of Centre

Centre for Research into Marine Pests

\$55K - \$76K Salary + Superannuation

Division of Fisheries, Hobart, Tasmania, Australia

The CSIRO Division of Fisheries is Australia's largest marine living resources research group operating throughout Australian and adjacent waters. It undertakes a diverse range of strategic and tactical research in support of the fishing and mariculture industries, and the management of environment issues in coastal and estuarine waters. We are currently establishing a Centre for Research on Introduced Marine Pests (CRIMP) which will provide a national focus for research aimed at assessing the impacts and possible control of introduced species in Australian waters. An important role for the Centre will be to develop collaborative links with CSIRO Divisions working on the biological control of terrestrial pests and to seek ways of applying this expertise to the control of introduced marine species.

To head the Centre we are looking for an enthusiastic and innovative scientist who will provide scientific leadership and management of research and support staff. We are seeking someone with an excellent record of research in either marine community ecology or biological control with the capacity to link multi-disciplinary areas to achieve desired outcomes. Familiarity with introduced marine pests/ballast water issues or experience in the development and application of biological control techniques to marine or terrestrial pests would be desirable. You must have a PhD or equivalent experience and a capacity to liaise and negotiate at all levels of government, industry and the community.

The Centre will be based at Australia's largest marine laboratories in Hobart, Tasmania, the Divisional headquarters. The position is tenured/permanent and we will offer assistance with relocation and immigration procedures.

Dr Ron Thresher (phone +61 02 325 378; e-mail Ron.Thresher@ml.csiro.au) can provide more details about the position and Mrs Toni Cracknell (phone +61 02 325 383) can provide a detailed job description and selection criteria.

Applications should quote Ref No FC94/11 and be framed against the selection criteria. It should provide details of your qualifications, work experience, the names of at least two referees and be addressed to: **The Human Resources Manager, CSIRO Division of Fisheries, GPO Box 1538, Hobart, Tasmania 7001 Australia** by 16 December 1994.

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adcomp61588

Pro-Neuron, Inc.

**Protein Chemistry
Molecular Biology
Organic Chemistry**

Protein Chemist. The successful candidate will have experience in the area of protein purification and characterization at both the research and production level and will be expected to investigate the enzymology of tumors and the potential for new drug targeting approaches. The candidates should have a Ph.D., a good understanding of protein chemistry, protein purification systems and enzymology. Knowledge of tissue culture, cancer biology, and antibodies would be an asset.

Molecular Biologist. To investigate the properties of novel pharmaceutical agents at the level of gene expression. Candidates should have a MSc and some experience with RNA purification, RT PCR, and quantitative PCR. A background in pharmacology would be an advantage.

Synthetic Organic Chemist. Candidates should have a Ph.D., 0-5 years experience in modern methods of synthesis (manipulating hazardous or toxic compounds) and analysis (HPLC, NMR), a concern for safety, and good communication skills. Background in cancer chemotherapy would be an advantage.

These challenging positions are opportunities for energetic highly motivated individuals to play a significant role in developing products and participating in the success of the company.

Pro-Neuron, Inc. is a dynamic development stage pharmaceutical company. We offer an excellent salary and a comprehensive benefits package. For immediate consideration, please send resume with salary history to: Pro-Neuron, Inc., 1530 E. Jefferson Street, Rockville, MD 20852, Dept. JK

Pro-Neuron, Inc.
An Equal Opportunity Employer

PLANT SYSTEMATIST MYCOLOGIST/CELL BIOLOGIST MIAMI UNIVERSITY, OXFORD Department of Botany

Applications are invited for two tenure-track Assistant Professorships beginning August 1995 on the Oxford campus. Successful candidates will join a growing, broadly-based department committed to educational and scholarly excellence and faculty diversity. A Ph.D. degree in Botany or a closely related discipline is required along with a genuine commitment to excellence as a teacher-scholar. Postdoctoral experience is preferred. Successful candidates will teach courses at the introductory as well as the advanced level and develop a vigorous, extramurally-funded research program.

Plant Systematist. We seek a broadly-trained plant systematist/taxonomist using modern molecular techniques to address fundamental questions in plant systematics and to complement existing departmental and interdepartmental programs. Areas of research interest may include but are not limited to plant evolution, economic botany/ethnobotany, tropical botany, and conservation biology.

Mycologist/Cell Biologist. We seek a broadly-trained mycologist/cell biologist to complement and expand our core teaching and research programs in mycology and related disciplines. Research interests should emphasize modern cellular, physiological, and/or molecular approaches to fungal biology, including but not limited to fungal physiology, plant pathology, and ecological interactions of fungi. Use of electron and/or confocal microscopy as a research tool is beneficial.

The Miami Botany department currently has 15 full-time faculty, over 120 undergraduate majors, and 36 full-time graduate students. The department offers B.S. and B.A. degrees in Botany and Botany-Environmental Science, M.A., M.S., and Ph.D. degrees in Botany, and a Master of Arts in Teaching degree. The Oxford campus, located 35 miles northwest of Cincinnati, has over 16,000 students and is recognized as one of the nation's best liberal arts universities. The Turrell Herbarium, an interdepartmental Electron Microscope Facility with state-of-the-art cryofixation capability, greenhouse/plant growth chamber facilities, field research plots, an Ecology Research Center, extensive analytical instrumentation, and partnership in a Howard Hughes Medical Institute grant offer outstanding support for scholarship. Interaction with faculty and students in other disciplines is encouraged.

Candidates should submit application materials (curriculum vitae, a statement of teaching philosophy and interests, a statement of research interests, and not more than three reprints of representative research), and should arrange to have three letters of reference sent to: **Dr. Kenneth Wilson, Chair, Plant Systematics Search Committee** or **Dr. Jerry McClure, Chair, Mycology/Cell Biology Search Committee, Dept. of Botany, Miami University, Oxford, OH 45056.** Fax 513-529-4243. Review of application materials begins 1 December 1994. MIAMI UNIVERSITY OFFERS EQUAL OPPORTUNITY IN EMPLOYMENT AND EDUCATION.

CORNELL
UNIVERSITY

TENURE TRACK POSITION EXPERIMENTAL BIOPHYSICS

The School of Applied and Engineering Physics at Cornell University is seeking applicants for a new tenure track assistant professorship with experimental research concentration in the application of physics to the study of biological systems. Candidates must be able to develop a successful independent research program, and to participate effectively in the teaching of the undergraduate applied physics curriculum, and biophysics courses at the undergraduate and graduate level. Substantial institutional support for research program start-up will be available. Depending upon research interests the successful candidate can benefit from association with Cornell's interdisciplinary research centers, national facilities, and national resources. These include the Cornell High Energy Synchrotron Source (CHESS); the Cornell Biotechnology Center; the NIH funded Resources: the Biomedical Technology Resource for Macromolecular Diffraction, the Developmental Resource for Biophysical Imaging and Opto-electronics, and the Parallel Processing Resource for Biomedical Scientists; the National Nanofabrication Facility; the Center for Theory and Simulation in Science and Engineering, a national supercomputer facility; and the Materials Science Center. Substantial interactions with the Cornell Biophysics and Bioengineering Programs and associated research programs in the Chemical Engineering, Biochemistry, Chemistry, Physics, and Neurobiology academic units at Cornell will be encouraged.

An appointment is expected to begin September 1995, but an earlier or later start is possible upon the mutual agreement of the successful candidate and the School. Applications, which should include a resume, a statement of research interest, a publication list, copies of most important publications or preprints, and three letters of recommendation or the names of three references, should be submitted to Professor Robert A. Buhman, Director, School of Applied and Engineering Physics, 210 Clark Hall, Cornell University, Ithaca, New York 14853-2501. The deadline for receipt of applications is Feb. 15, 1995, or until the position is filled.

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PENNSTATE



Graduate Study in Biology in the Areas of:

- **Ecological Physiology** including autotrophic symbiosis, ecotoxicology, organismal performance, and comparative physiology.
- **Molecular Developmental And Cell Biology** including signal transduction, developmental role of the cytoskeleton, hormone action, mechanisms of cell growth and differentiation, and molecular basis of development.
- **Molecular Evolutionary Genetics** including molecular population genetics, molecular phylogenetics, statistical analysis of molecular genetic data.
- **Physiology** including biology of aging, molecular neuroendocrinology, and neuroplasticity.

For more information about the Department of Biology contact,

Graduate Secretary
Department of Biology
The Pennsylvania State University
208 Erwin W. Mueller Laboratory
University Park, PA 16802-5301
Telephone (814) 863-7034
Email: hap2@psuvm.psu.edu

On the Internet, check World Wide Web URL:

<http://www.cac.psu.edu/~sww4/Biology/Biology.html>
An Equal Opportunity University



The Gladstone Institute of Cardiovascular Disease, University of California, San Francisco.

Postdoctoral positions available in the labs of:

Israel F. Charo, M.D., Ph.D.: Research on the role of monocyte/macrophages in early atherosclerosis. Current projects are focused on the recently cloned receptor for monocyte chemoattractant protein 1 (MCP-1) and related receptors in the rapidly emerging family of cytokines known as the chemokines. Methodology includes expression of receptors in *Xenopus* oocytes and mammalian cells to examine signaling pathways and ligand binding domains, as well as the development of transgenic mice. Experience in molecular biology, signal transduction, or transgenic mice is desirable.

Bruce R. Conklin, M.D.: Research on cell signaling and gene therapy. Focus is on basic mechanisms of receptor activation and the engineering of cell surface receptors to selectively effect an expansion of transfected tissues. Methodology involves expression of mutant receptors in mammalian cells, signaling assays and gene transfer into mice. Experience in molecular biology, signal transduction and gene expression desirable.

Thomas L. Innerarity, Ph.D.: **Two positions:** Study the molecular mechanism and physiology of apoB RNA editing. This would involve the characterization of the recently developed transgenic mice expressing apoB mRNA editing activity. The second position will use transgenic animals to investigate the genetic disorder familial defective apoB100 and the mutations of apoB100 that disrupt LDL binding to the LDL receptor.

Stephen G. Young, M.D.: Research on the structure and function of apolipoprotein B (apo B). Analysis of transgenic mice expressing human apo B and analysis of mice with targeted apo B gene mutations. Development of new mouse models to study apo B structure/function and apo B gene expression. Experience with transgenic mice and/or molecular biology techniques is desirable.

Candidates should possess an M.D. or Ph.D. in molecular biology or biochemistry. Competitive salary and benefits. Send C.V. and names of three references to: Postdoctoral Recruitment; Gladstone Institute of Cardiovascular Disease, UCSF; P.O. Box 419100; SF, CA 94141-9100. AA/EOE.

Chairman Department of Physiological Sciences

The University of Florida, College of Veterinary Medicine invites applications and nominations for the position of Chairman, Department of Physiological Sciences, which covers the disciplines of anatomy, physiology, pharmacology, toxicology and clinical pathology. The department is involved in graduate training in the above areas of specialization through study toward M.S. and Ph.D. degrees.

As one of six colleges in the University's Health Science Center, the College of Veterinary Medicine provides excellent opportunities for collaborative programs in many aspects of biomedical research. As one of four colleges and schools associated with the Institute of Food and Agricultural Sciences it fosters interests in food animal production systems, tropical diseases, wildlife and environmental programs.

Qualifications for the position include a doctoral degree in a relevant discipline with preference given to individuals also holding the DVM degree (or equivalent). An established record of excellence in research, a commitment to excellence in veterinary and graduate training and a commitment to academic service programs is required. Applicants or nominees should be eligible for appointment as full professor and membership in the Graduate faculty of the University of Florida.

Letters of application should include a curriculum vitae outlining academic training, teaching, research and diagnostic experience and present professional activities. Also needed are a list of publications, a statement of professional goals and names of at least three persons who can provide letters of reference. Salary will be commensurate with training and experience (academic rank) of the successful applicant. Detailed position description is available upon request. Applicant deadline is December 31, 1994 or until filled. Send application addressed to Dr. Atwood Asbury, Search Committee Chairman, College of Veterinary Medicine, University of Florida, Box 100136, Gainesville, FL 32610-0136. The University of Florida is an equal opportunity affirmative action employer.

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**Alpha-Beta Technology is the
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TECHNOLOGY**

SCIENTIST **Structural Carbohydrate Chemistry**

This individual will be involved in projects requiring the generation, isolation, derivation, and characterization of oligosaccharides derived from yeast glucan. Candidates must have a Ph.D., and a strong background in carbohydrate chemistry. Comprehensive experience with chromatographic techniques and spectral interpretation of carbohydrates is required. Synthetic organic chemistry experience is desired.

SCIENTIST **Chemistry**

Develop new and evaluate existing analytical methods for use and support of Betafectin and other drug candidates. You will optimize analytical procedures and chromatographic or electrophoretic conditions and validate methods in accordance with current industry standards. Candidates must have a Ph.D. in Analytical Chemistry or Analytical Biochemistry and 0-2 years of experience in analytical chemistry and methods development/validation. Demonstrated ability to independently propose, plan, and successfully implement research projects as well as the desire to perform bench work in a fast-paced, team-oriented environment essential. Postdoctoral candidates will also be considered.

Alpha-Beta Technology offers excellent compensation and comprehensive benefits. Send your resume to Alpha-Beta Technology, Human Resources, Dept SM1094, One Innovation Drive, Worcester, Massachusetts 01605.

An equal opportunity employer.

Wasting Disorders: Molecular and Clinical Aspects February 23-26, 1995 Bonaventure Resort and Spa Fort Lauderdale, Florida

This symposium will provide a current review for the basic scientist and clinician interested in the development and management of malnutrition. The symposium will examine the maintenance and loss of nutritional homeostasis from the point of view of the organism, the organ, the cell, and the molecule.

Invited Speakers:

Bruce Bistrian	Joseph Brozek	Peter Durie
William J. Evans	Carl Grunfeld (Chair)	Mark Hellerstein
Steven Heymsfield	Gerald T. Keusch	Donald P. Kotler (Chair)
Kent Lundholm	Dwight E. Matthews	Lyle Moldower
Miriam E. Nelson	Maxine Papadakis	F. Xavier Pi-Sunyer
Michael J. Rennie	Irwin Rosenberg	Ronenn Roubenoff
Hans P. Sauerwein	Morris Schambelan	Jamie Von Roenn
Robert R. Wolfe	Vernon Young	Thomas Ziegler

Submission of abstracts for posters is encouraged. For more information regarding brochures, registration and poster abstract forms, please contact:

Leslie Nies, Sero Symposia, USA
100 Longwater Circle, Norwell, MA 02061
Tel: 800-283-8088 or 617-982-9000
FAX 617-982-9481



Harvard University

Summer Fellowship Program for Minority Undergraduates Graduate Studies in Organismic and Evolutionary Biology

The Department of Organismic and Evolutionary Biology invites applications from minority college students to its Graduate Program and to its Summer Fellowship Program for Minority Undergraduates.

Faculty in this Department conduct research in the areas of ecology, genetics, behavior, physiology, paleontology, marine biology, biological oceanography, population biology, molecular evolution, functional morphology, plant and animal systematics.

The Graduate Program has a diverse student body of women and men advised by faculty members who share a primary commitment to train scientists pursuing a greater understanding of the evolution of the earth's life processes. Modern research facilities, combined with the natural history collections and libraries of the Harvard University Herbaria and the Museum of Comparative Zoology, provide unique opportunities for meeting the challenges inherent in this pursuit. Financial aid is available to all accepted students. **The application deadline is December 15, 1994.**

The Summer Fellowship Program focuses on college sophomores, juniors and seniors from under-represented cultural groups. The goal of the program is to increase cultural diversity among scientists in the future. Students selected for the program spend eight weeks, from mid-June to mid-August, on the Harvard campus doing laboratory research. Stipends, room, and board are available to all accepted students. **The application deadline is March 15, 1995.**

For more information and application forms contact:

Dept. of Organismic & Evolutionary Biology
Harvard University
26 Oxford Street
Cambridge, MA 02138, 617/495-2305

Harvard is an equal opportunity/affirmative action employer.

POSITIONS AVAILABLE

Molecular Genetics of Cancer

Scientists/Senior Scientists Diagnostics Development

ONCOGENETICS, a leading R&D and clinical oncology laboratory, is pioneering the laboratory development and clinical application of gene discoveries for early detection of cancer. We offer an outstanding opportunity for exceptional individuals to become key members of the scientific/development team, which includes Ph.D. and M.D. staff in molecular genetics, clinical genetics, cytogenetics, and pathology. A comprehensive salary and benefits package includes equity in the company.

A Ph.D. or equivalent degree in molecular biology or molecular genetics is required. Ideal candidates will have the capability, interest and hands-on expertise to direct independently one or more projects to develop gene-based diagnostic applications for cancer prognosis and inherited cancers.

Please send curriculum vitae and cover letter to:



ATTN: James Sommercorn, Ph.D.
 1120 West Watkins Road, Phoenix, AZ
 85007-4091

THE ENVIRONMENTAL AND OCCUPATIONAL HEALTH SCIENCES INSTITUTE PISCATAWAY, NEW JERSEY, USA

presents

BENZENE '95:

An International Conference on Toxicity-Carcinogenesis-Epidemiology

June 17 - 20, 1995

Discussions will focus on the mechanisms by which benzene and its metabolites induce bone marrow depression and leukemia. Emphasis will be placed on exposure to benzene; benzene metabolism and toxicokinetics; cellular toxicology in bone marrow cells; progression from bone marrow damage to leukemia; chromosome damage; biomarkers; human epidemiology; and risk assessment.

Voluntary presentations are invited.

For further information contact: Jill Braun
 at (908) 932-9271; (908) 932-8726 FAX

EOHSI is jointly sponsored by the University of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School and Rutgers, The State University of New Jersey.

Director Center for Environmental and Human Toxicology

The University of Florida, College of Veterinary Medicine invites applications and nominations for the position of Director of the Center for Environmental and Human Toxicology. This is a multidisciplinary center with campus-wide responsibilities for the development of interdisciplinary programs addressing both basic and applied toxicology needs in Florida, nationally and internationally.

The Director is responsible for providing leadership for high priority interdisciplinary research and educational programs in environmental and human toxicology. Essential qualifications include demonstrated research competence in planning, evaluating, and conducting interdisciplinary research in toxicology. Administrative experience and/or demonstrated potential to work effectively in a coordinating and organizing role are desirable. Academic requirements include the Ph.D. degree with training in toxicology.

The Director is expected to develop and maintain a productive program in his/her area of expertise. The Director will be administratively responsible to the Chairperson of the Department of Physiological Sciences, College of Veterinary Medicine. The Affirmative Action Plan of the University of Florida must be accepted, promoted, and implemented.

Letters of application should include a curriculum vitae outlining academic training, teaching, research and diagnostic experience and present-professional activities. A listing of publications, statement of professional goals and names of at least three persons who can provide letters of reference are also requested. Salary will be commensurate with training, experience and academic rank of the successful applicant.

Detailed position description is available upon request. Applicant deadline is December 31, 1994 or until filled. Send application addressed to Dr. Webb, Search Committee Chairman, College of Veterinary Medicine, University of Florida, Box 100144, Gainesville, FL 32610-0144. The University of Florida is an equal opportunity affirmative action employer.

**Biological Sciences in Public Health
at the Harvard School of Public Health**



(Ph.D.) Program



*offered through the Division of Medical Sciences,
Harvard University Faculty of Arts & Sciences,
Graduate School of Arts & Sciences*

Students wishing to study cellular and molecular biology or physiology as they pertain to major problems in public health should apply. Working in the areas of Cardiovascular Gene Expression, Molecular & Cellular Toxicology, Physiology and the Environment, Nutrition/Biochemistry, Cancer Biology, and Tropical Public Health, students will apply state of the art technology to the solution of real life problems. Laboratory research focuses on both clinical and basic scientific investigation aimed at the *prevention* of disease.

Admissions Deadline: December 15, 1994

**1995 Minority Undergraduate
Summer Internship Program
for upcoming juniors and seniors**

This 10-week residential program offers housing plus living expenses while doing hands-on laboratory research.

Admissions Deadline: March 8, 1995

To request further information or applications contact:

Ruth Kenworthy, Administrator
Division of Biological Sciences
Harvard School of Public Health
677 Huntington Ave., Building 2-#102
Boston, MA 02115
(617) 432-4470 phone.
"Kenworthy@CVLAB.HARVARD.EDU"

EXECUTIVE DIRECTOR

**Stephen Birch Aquarium-Museum
Scripps Institution of Oceanography
University of California, San Diego**

The Scripps Institution of Oceanography at the University of California, San Diego, seeks a visionary leader to guide its unique public education and outreach program—The Stephen Birch Aquarium-Museum—into the next century. The successful candidate will be a collaborative, energetic, and dynamic individual who has the scientific credibility, knowledge, and creativity to work closely with scientists and faculty at Scripps in the translation of institution research into effective public exhibit and educational programs. He/she will have the stature, interpersonal skills, and personal qualities to work nationally to develop successful fundraising and community outreach programs.

Most importantly, the candidate selected will have a deep personal commitment to communicating scientific concepts and principles to the lay public of all ages. A Ph.D. in oceanography, biology, or earth sciences preferred.

The Scripps Institution of Oceanography is one of the world's oldest, largest, and most important centers for research, education, and public service in the marine and earth sciences. Founded in 1903, Scripps' original charter required it to maintain and operate a public aquarium and museum. The first public program was initiated in 1905 and has operated continuously since, providing "a window into the Scripps Institution." The present program occupies a new facility—The Stephen Birch Aquarium-Museum. Opened in September 1992, it contains over 50,000 gross square feet of interior exhibit and support space and 20,000 square feet of exterior exhibit space. Attendance is in excess of 400,000 per year with over 60,000 K-12 school children participating in extensive education programs. The annual budget is approximately \$2.1 million.

Salary commensurate with experience. Apply by 12/20/94, referencing Job #106442-D, to: UCSD Human Resources, 10280 N. Torrey Pines Rd., Ste. 266, La Jolla, CA 92093-0967. Fax (619) 534-8020. AA/EOE.

UCSD
University of California, San Diego



**CORNELL UNIVERSITY
GRADUATE SCHOOL OF MEDICAL SCIENCES**

**GRADUATE STUDY TOWARD
THE PHD OR MD-PHD DEGREE
IN THE BIOMEDICAL SCIENCES**

The Cornell University Graduate School of Medical Sciences, composed of faculty drawn from Cornell University Medical College and The Sloan-Kettering Institute for Cancer Research, provides opportunities for graduate study leading to the PhD or combined MD-PhD degree in various fields of the biomedical sciences. Programs of study include *Biochemistry and Structural Biology, Cell Biology and Genetics, Immunology, Molecular Biology, Neuroscience, Pharmacology, and Physiology and Biophysics*. Special funding is available for interdisciplinary training in *Molecular and Cellular Biology* and in *Molecular Medicine*.

Successful applicants will be awarded full graduate fellowships covering living expenses and tuition. Low-cost university housing is available for all students, and the student health plan provides ambulatory care and hospitalization for all registered students and their qualifying dependents.

The Cornell University Graduate School of Medical Sciences is part of the New York City Campus of Cornell University at Ithaca, New York. It is a component of a large biomedical research complex extending along York Avenue on Manhattan's East Side, including Cornell University Medical College-New York Hospital, The Memorial-Sloan Kettering Cancer Center, The Hospital for Special Surgery, and The Rockefeller University. These institutions constitute one of the world's outstanding centers for biomedical research and education, as well as for medical diagnosis and treatment.

The Cornell University Graduate School of Medical Sciences is committed to the successful recruitment and training of qualified women and members of underrepresented minority groups, including, but not limited to, African Americans, Alaskan Natives, American Indians, Hispanic Americans, and Pacific Islanders.

Cornell University is an Equal Opportunity/Affirmative Action Employer

To receive additional information
and an application kit, call or write to:

To receive additional information and an application kit, call or write to:
Cornell University Graduate School of Medical Sciences
445 East 69th Street, New York, NY 10021
tel: 212-746-6565; fax: 212-746-8906



**TENURE-TRACK POSITION
IN STRUCTURAL BIOLOGY AT THE
NATIONAL INSTITUTES OF HEALTH
BETHESDA, MARYLAND**

A tenure-track position is available for a structural biologist to establish an independent research program in the Laboratory of Molecular Biology, NIDDK, NIH. Applicants for this position should have a record of achievement in some area of structural biology. Salary will be commensurate with credentials and research experience.

Research in the Laboratory is concerned with DNA transcription, transposition and recombination, and with the structures of nucleic acids and proteins, including protein complexes, HIV proteins and proteins of the immune system. The Laboratory is located in Building 5 on the NIH campus in Bethesda, Maryland, just outside Washington, D.C. Senior scientists in the Building include Gary Feisenfeld, Martin Gellert, Kiyoshi Mizuuchi, William Eaton, Marius Clore, Angela Gronenborn and Ad Bax.

Interested candidates should send a curriculum vitae, copies of major publications, a research plan and arrange to have three letters of reference sent to:

David R. Davies
Laboratory of Molecular Biology
NIDDK, NIH
Bldg, 5, Room 338
9000 Rockville Pike
Bethesda, MD 20892-0560
(301) 496-4295
(301) 493-0201 Fax

Deadline for receipt of applications is
December 15, 1994.

NIH is an Equal Opportunity Employer



Lectureship in Anatomy

Applications are invited for a Lectureship in the Department of Anatomy (Ref. 94/95-14), tenable from 1 January 1995. The appointment will be made on a fixed-term basis for a period of three years, with a possibility of renewal.

Applicants should have a higher degree in a relevant scientific subject with postdoctoral research experience, or a medical or dental degree and research/clinical experience. The appointee is expected to undertake general teaching duties for pre-clinical students of medicine and dentistry in one or more anatomical specialties, to conduct research and to supervise postgraduate students. Preference will be given to applicants who have research interests in one of the department's existing areas of expertise which include Anthropology, Cancer Biology, Molecular and Cell Biology, Neurobiology, Neuroendocrinology and Reproductive Biology.

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 5 October 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 1/2% 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@hkuvml.hku.hk" (specify "get apptment filelist" for list of vacant posts, "get" under the individual post file for details and "help" for listserv commands). Closes **9 December 1994**.

Lectin BioPharma Inc. (LBI), is a Ventura, California-based developmental stage company engaged in the research and development of prophylactic products based on the exploitation of lectins. Our unique technology has given us a proprietary edge in taking on the multifaceted challenges associated with a diverse range of human infectious diseases, including sexually transmitted diseases (STDs). Join us as we aggressively pursue new product development programs as a member of our R&D team.

Senior Microbiologist

The motivated senior scientist we seek must possess a Ph.D. in Microbiology, a minimum of three years of post-doctoral experience, preferably in the field of STDs, and experience with carbohydrates and/or carbohydrate-binding proteins. Experience with *in vitro* and *in vivo* evaluation of anti-infectives, a clear understanding of experimental design, and the ability to create focused strategies that advance projects are also highly desirable.

LBI offers a very stimulating research environment in which team synergy and scientific curiosity are encouraged. We offer a competitive salary and benefits package. For confidential consideration, please send a letter of introduction, resume, and a list of publications to **Human Resources Department, Lectin BioPharma Inc., 1673 Donlon Street, Suite 205, Ventura, CA 93303**. LBI is an equal opportunity employer.

FACULTY POSITIONS BIOMEDICAL ENGINEERING LOUISIANA TECH UNIVERSITY

The **Biomedical Engineering Department** at Louisiana Tech University invites applications for two tenure-track positions:

Senior Researcher at Associate Professor or Professor rank: Seeking experienced researcher with focus on biomedical applications of microsensors/microdevices. Candidates must have demonstrated the ability to establish and sustain an externally funded research program and supervise graduate-student research. Limited teaching responsibilities in specialty area. Opportunity to interact with staff and facilities of Louisiana Tech University Institute for Micromanufacturing and LSU School of Medicine in Shreveport.

Associate or Assistant Professor: Applicants will be expected to teach undergraduate/graduate courses (including physiological control systems) and direct graduate-student research. Candidates must have demonstrated the ability to establish an externally funded research program. Teaching experience is preferred.

The Biomedical Engineering Department offers a nationally-recognized academic program with emphasis on systems physiology and rehabilitation engineering. Degrees are offered at the B.S. (ABET-accredited), M.S. and Ph.D. levels with an enrollment of over 175 undergraduate and 35 graduate students. The Department's Board of Regents-funded Center for Rehabilitation Science and Biomedical Engineering provides opportunities for professional growth and for interactions with the LSU School of Medicine in Shreveport and the University's Institute for Micromanufacturing. The University is developing world-class resources for development of micro-structures, devices and systems.

Candidates for either position must have earned a doctorate in Biomedical Engineering or a related field, and be US citizen/permanent resident. Preference will be given to candidates with strong background in animal experimentation and systems physiology. Send curriculum vitae, statement of teaching and research interests/goals, and names and addresses of at least three references to Dr. Stan A. Napper, Chair of Search Committee, Biomedical Engineering Department, Louisiana Tech University, P.O. Box 10348, Ruston, Louisiana 71272 (phone 318-257-2645, FAX 318-255-4175, e-mail san@enr.latech.edu). Applications will be reviewed starting February 1, 1995; positions are available September 1, 1995.

Louisiana Tech University is an equal employment university.
Women and minorities are encouraged to apply.



GEORGIA SOUTHERN UNIVERSITY. The Chemistry Department invites applications for a tenure-track position in Analytical Chemistry to begin September 1, 1995. Applicants must have an earned Ph.D. in Analytical Chemistry by the time of appointment, command of written and spoken English, and demonstrated teaching and research abilities. Rank and salary dependent upon qualifications. The successful candidate will teach general chemistry and analytical chemistry and will be expected to develop an effective research program in collaboration with undergraduate students. Applicants should submit, postmarked no later than November 30, 1994, a letter of application, *curriculum vitae*, unofficial undergraduate and graduate transcripts, and the names and telephone numbers of three references to: **Dr. Bill Ponder, Department of Chemistry, Landrum Box 8064, Georgia Southern University, Statesboro, GA 30460-8064**. Applicants should also arrange to have letters of recommendation sent from their references to the search chair. The names of applicants and nominees, résumés and other general non-evaluative information are subject to public inspection under the Georgia Open Records Act. Georgia Southern is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodation(s) in the application process under the Americans with Disabilities Act should notify the search chair.

GEORGIA SOUTHERN UNIVERSITY. The Chemistry Department invites applications for a tenure-track position in biochemistry to begin September 1, 1995. Applicants must have an earned Ph.D. in biochemistry by the time of appointment, command of written and spoken English, and demonstrated teaching and research abilities. Rank and salary dependent upon qualifications. Research and teaching interests in molecular biology preferred. The successful candidate will teach general chemistry and biochemistry and will be expected to develop an effective research program in collaboration with undergraduate students. Applicants should submit, postmarked no later than November 30, 1994, a letter of application, *curriculum vitae*, unofficial undergraduate and graduate transcripts, and the names and telephone numbers of three references to: **Dr. Bill Ponder, Department of Chemistry, Landrum Box 8064, Georgia Southern University, Statesboro, GA 30460-8064**. Applicants should also arrange to have letters of recommendation sent from their references to the search chair. The names of applicants and nominees, résumés and other general non-evaluative information are subject to public inspection under the Georgia Open Records Act. Georgia Southern is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodation(s) in the application process under the Americans with Disabilities Act should notify the search chair.

WYETH-AYERST RESEARCH

Women's Health Research Institute

Wyeth-Ayerst is a global leader in women's health-care products and research, helping to improve the lives of women every day. We are now the number one provider worldwide of hormone replacement therapy and hormonal contraceptive products and at the forefront of international efforts to improve women's health through research and education.

SENIOR SCIENTIST REPRODUCTIVE ENDOCRINOLOGY

Currently we have an opportunity available for a Senior Scientist within the Reproductive Endocrinology Group. This position, focusing on key aspects of reproduction, requires a solid background in the biology and pharmacology of reproduction. This person will be responsible for the establishment and development of in vitro and in vivo model systems for progestational and estrogenic activity. A Ph.D. in Pharmacology or related field with 0-3 years post-doctoral experience is required. A background in progestin receptor pharmacology and development of animal models is desirable.

Wyeth-Ayerst offers an excellent compensation and benefits package in a highly professional environment. Please respond by sending your resume with salary history/requirements to: Wyeth-Ayerst Research, Human Resources, Position S-66-S, P.O. Box 8299, Philadelphia, PA 19101-0082. Equal Opportunity Employer, M/F/D/V responses encouraged.



Minority Traineeships in Oceanography

The Woods Hole Oceanographic Institution offers special educational opportunities in oceanography for minority undergraduate U.S. citizens or permanent residents. These awards are designed to provide training and research experience in Woods Hole for students who have completed at least two semesters of undergraduate study in physical or natural science, mathematics, or engineering and have an interest in oceanography or oceanographic engineering.

Traineeships may be awarded for a ten to twelve week period in the summer or for a semester during the academic year and may be renewed the following year. The Trainee is paid a stipend of \$325 per week, plus round trip travel to Woods Hole. This program is jointly sponsored with the:

Northeast Fisheries Science Center, National Marine Fisheries Service, NOAA and the Branch of Atlantic Marine Geology, U.S. Geological Survey

Application deadline for Summer 1995 is March 1, 1995.

**WOODS HOLE
OCEANOGRAPHIC
INSTITUTION**

Write for application forms to:
Education Office P.O. Box B,
Woods Hole
Oceanographic Institution
Woods Hole, MA 02543
Or call (508) 457-2000 ext. 2200



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NEW JERSEY MEDICAL SCHOOL

FACULTY OPENINGS

The University of Medicine and Dentistry of New Jersey- New Jersey Medical School, Newark, New Jersey, is seeking applications at the Assistant Professor to Full Professor level to fill the following openings:

PROFESSOR

Academically oriented pathologist to assist in coordinating all of the educational programs of the Department of Pathology and in addition, will develop Quality Assurance programs for departmental service functions. Qualifications include five to ten years of experience at tenured professorial level in a similar position, as well as a track record of scholarly publications. Board certification in diagnostic pathology as well as demonstrated excellence (awards, etc.) in teaching are essential requirements.

PROFESSOR

Academically oriented pathologist to coordinate all Anatomic Pathology Services. Candidate chosen will serve as chief of Anatomic Pathology and Vice Chairman. Must have appropriate academic and clinical credentials for this position.

ASSOCIATE PROFESSOR/ PROFESSOR

Academically oriented surgical pathologist to direct the Division of Surgical Pathology at University Hospital. Must have broad experience in all aspects of diagnostic pathology as well as a track record of scholarly accomplishments.

ASSOCIATE PROFESSOR/ PROFESSOR

Academically oriented cytopathologist with clinical research interest in fine needle aspiration, image analysis and immunostaining techniques. Candidate chosen will serve as Division Director for Cytopathology. Must be board certified.

ASSISTANT PROFESSOR/ ASSOCIATE PROFESSOR

Board certified academically oriented pathologist with at least two year fellowship experience in oncologic pathology and molecular diagnostics. Must have track record of scholarly publications and research experience.

ASSISTANT/ASSOCIATE PROFESSOR

Two positions. Research Faculty to participate in ongoing studies of DNA replication and molecular immunology.

ASSISTANT/ASSOCIATE PROFESSOR

Board certified Pathologist with Fellowship training in Anatomic and Molecular aspects of hematopathology.

Candidates should send their curriculum vitae to **Dr. Stanley Cohen, Chairman, Department of Laboratory Medicine and Pathology, UMDNJ-NJMS, 185 South Orange Avenue, Newark, NJ 07103.** Letters of recommendation should be sent directly to Dr. Cohen. The University of Medicine and Dentistry of New Jersey is an equal opportunity/affirmative action employer.

Instructors come here for the same reasons students do. Excellence in Education

We concentrate on student success through teaching excellence. If you share such a vision, we invite you to become part of an academic community which makes teaching its top priority and student success its chief reward.

FACULTY POSITIONS

- Biology
- Chemistry
- Geography
- Geology
- Physical Science
- Physics

Academic areas require a minimum of a Masters Degree which includes 24 semester hours of upper division and/or graduate credit in the field to be taught.

SALARY RANGE: \$31,944 - \$54,848

A separate faculty application and a complete set of unofficial copies of transcripts (inclusive of degree(s) conferred) are required for each discipline for which an applicant applies. All applications must be received by the Employment Office and clocked in by 5:00p.m. on the final closing date, March 8, 1995. To request a faculty application, please call the Maricopa Community College District Toll-Free Number, 1-800-25-TEACH, or in Maricopa County, (602)731-8491, Monday-Friday, 8:00a.m.-5:00p.m. MST. Or using your automated fax machine, call our automated fax modem line, (602)731-8481, Code: 01. AA/EOE, Women and Minorities are encouraged to apply.

**Maricopa Community Colleges
Employment Department
2411 West 14th Street, Tempe, AZ
85281-6941**

**Setting the
Standard.**



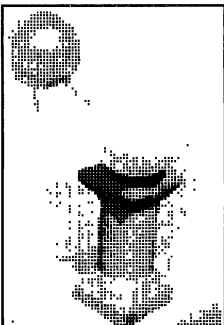
Chandler-Gilbert • Estrella Mountain • GateWay • Glendale • Mesa • Paradise Valley
Phoenix College • Rio Salado • Scottsdale • South Mountain • Maricopa Skill Center

Minority Medical Faculty Development Research Fellowships

The Minority Medical Faculty Development Program, sponsored by the Robert Wood Johnson Foundation, has up to 12 positions beginning in 1996. The program offers postdoctoral research fellowships to physicians from under-represented minority groups as defined by the Association of American Medical Colleges (African-Americans, Mexican-Americans, Native Americans, and mainland Puerto Ricans who have completed at least college and medical education on the mainland). These individuals must have demonstrated superior academic and clinical skills and must be committed to careers in academic medicine with special interest in **BIOMEDICAL RESEARCH, CLINICAL INVESTIGATION, OR HEALTH SERVICES RESEARCH**. The fellowship supports four consecutive years of research training. Each Fellow will receive an annual stipend of up to \$50,000 with 5% increases per year and a fixed \$25,000 annual grant toward support of research activities.

Applicants must be U.S. citizens and must have completed formal clinical training by the projected time of entry into the program. The application deadline is March 31, 1995; applications must be requested by February 28, 1995.

For further information and application materials, contact James R. Gavin III, M.D., Ph.D., Program Director, Minority Medical Faculty Development Program, 4733 Bethesda Avenue, Suite 350, Bethesda, MD 20814. Telephone (301) 913-0210.



Molecule of the Year!

This award has been described as science's equivalent of the Academy Award! For advertisers, the SCIENCE Molecule of the Year issue represents a great opportunity to create award-winning hires. Which molecule will win this year? Find out in the 23 December issue of SCIENCE. Advertise in the issue everyone will be waiting for this December.

The Molecule of the Year issue publishes 23 December 1994.

Advertising space reservation deadline is 6 December 1994.

Call Debbie Cummings at (202)326-6541.

SCIENCE

INTEGRATIVE BIOLOGISTS Arizona State University

The Department of Zoology invites applications for **two** tenure-track positions at the level of Assistant Professor beginning in Fall 1995 from biologists who are studying questions that integrate multiple levels of organization.

Position 1 - An integrative biologist who uses an evolutionary or organismal perspective to study questions at the molecular to organismal level. Individuals using theoretical, comparative, or experimental approaches in fields such as cellular/developmental biology, neuroscience, morphology, physiology, and genetics are encouraged to apply.

Position 2 - An integrative biologist who uses evolutionary or ecological perspectives to study questions integrating multiple levels of organization at the organismal level or above. Researchers using theoretical or empirical approaches are encouraged to apply.

Candidates for both positions must have demonstrated a strong commitment to teaching and basic research, and must have a Ph.D. in an appropriate area by August 1995. Applicants should forward a curriculum vitae, selected reprints, statements of teaching and research, with the latter addressing the integrative nature of their work, and arrange for three letters of reference to be sent directly to **Dr. Neil F. Hadley (Position #1) or Dr. Stanley H. Faeth (Position #2), Department of Zoology, Box 871501, Arizona State University, Tempe, AZ 85287-1501**. Review of applications will begin December 15 and continue until each position is filled.

Applications from two individuals for a single shared appointment will be considered.

Arizona State University is an Affirmative Action/Equal Opportunity Employer.



**PRE-DOCTORAL
AND
POST-DOCTORAL
TRAINING PROGRAMS**

RESEARCH PROGRAMS

Genome Organization
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Neurobiology
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**EVOLUTIONARY BIOLOGY
ASSISTANT PROFESSOR**

Florida International University, The State University of Florida at Miami, seeks a tenure-track Assistant Professor in Evolutionary Biology. Candidates with exceptional expertise in the mathematical issues of phylogeny reconstruction and/or analysis of molecular population genetic data will be given preference. We seek a candidate who is eager to collaborate in interdisciplinary studies. The successful candidate will develop undergraduate and graduate courses, supervise M.S. and Ph.D. students, and pursue research in their area of interest. A Ph.D. and vigorous research program in area of specialization required, postdoctoral experience is preferred. The position is available for the Fall 1995, semester. To apply send curriculum vitae, 3 letters of reference, and representative publications to: Dr. Joel Trexler, Chair Evolutionary Biology Search Committee Department of Biological Sciences, Florida International University, Miami, FL 33199; FAX: (305) 348-1986. Applications must be postmarked on or before December 23, 1994. FIU is an Equal Access/Affirmative Action/Equal Opportunity Employer and a member of the State University System of Florida.

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NATURAL RESOURCES POLICY: Grand Valley State University, a regional comprehensive university that emphasizes excellence in teaching and service to its geographic region and encourages faculty research that can include students, is seeking a person with a Ph.D. in natural resources or a related environmentally oriented program. The position is tenure-track at the Assistant or Associate Professor rank. Responsibilities include teaching courses in research management and policy, environmental impact assessment, environmental regulations, environmental ethics, senior seminars, special topics in area of expertise, and others as qualified. Other assignments include advising majors and serving on committees. Preference will be given to those with an undergraduate degree in a natural science, teaching experience, and demonstrated experience or interest in research involving undergraduates. Excellent communication skills and field experience are required. Salary commensurate with experience and qualifications. Applications must be received by December 2, 1994. Send letter of application, transcripts, statement of teaching philosophy and research interests, curriculum vitae, and three letters of recommendation to Dr. Melvin Northup, Chair, Search Committee, Department of Biology, Grand Valley State University, Allendale, Michigan 49401. EEO/AA/ADA

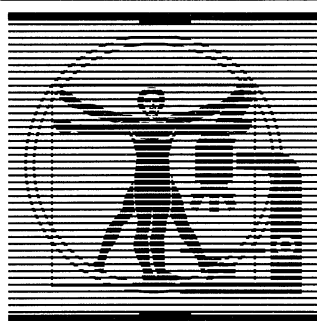
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PLANT BIOLOGY: Ph.D. in biology, botany, or related field. Coursework and experience in the area of structure and/or function of fungi or non-seed plants. Interest in horticulture of plant pathology would be a plus. Field experience required. Responsibilities include teaching courses in plants and fungi, general biology, and others as qualified as well as to develop courses in the area of expertise. Address response to Chair of Plant Biology Search Committee.

FRESHWATER FISH BIOLOGY: Ph.D. in biology, ecology, zoology, or related field. Coursework and experience in the area of natural history and ecology of freshwater fishes that could include behavior, ecological genetics, evolution, or physiological ecology. Applicants with background primarily in fisheries management will not be considered. Field experience required. Responsibilities include teaching courses in fish biology, ichthyology, general biology, and others as qualified as well as to develop courses in the area of expertise. Address response to Chair of Fish Biology Search Committee.

CELL BIOLOGY: Ph.D. in cell biology, biology, zoology, or related field. Coursework and experience in the area of cell biology, cell physiology, and developmental biology. Responsibilities include joining others in teaching courses in cell and molecular biology, embryology, general biology, genetics, and others as qualified as well as to develop courses in the area of expertise. Address response to Chair of Cell Biology Search Committee.

Preference will be given to those with teaching experience and demonstrated experience or interest involving undergraduates. Excellent communication skills are required. Salary commensurate with experience and qualifications. Applications must be received by December 2, 1994. Send letter of application, transcripts, statement of teaching philosophy and research interests, curriculum vitae, and three letters of recommendation to: **Department of Biology, Grand Valley State University, Allendale, Michigan 49401. EEO/AA/ADA**



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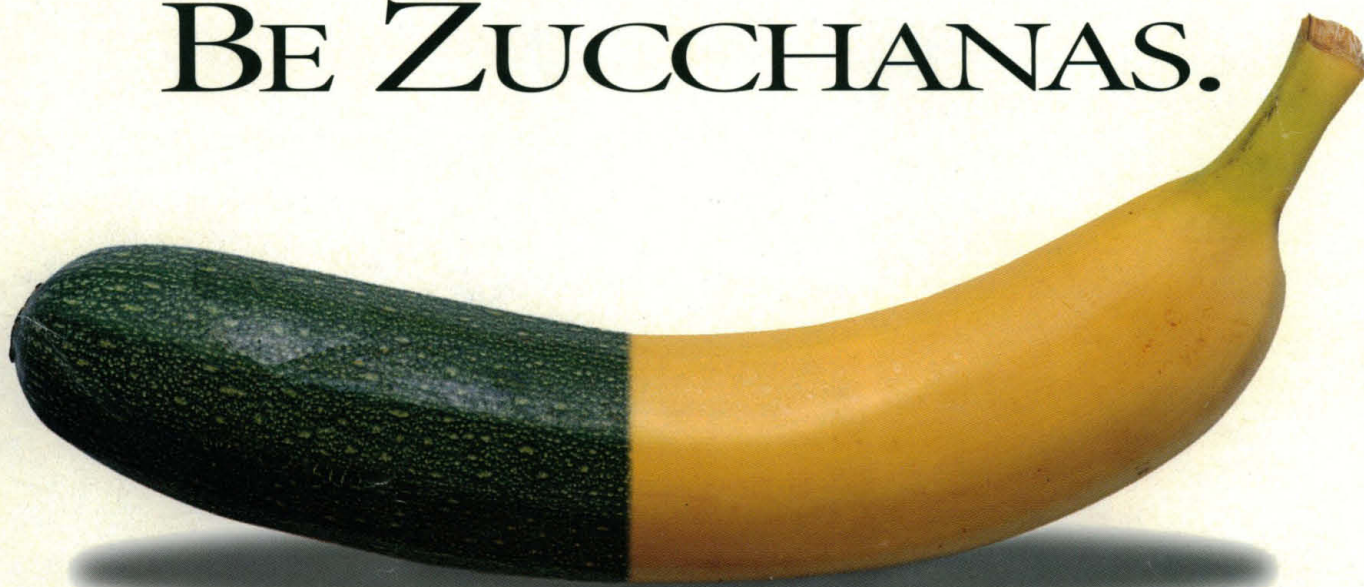
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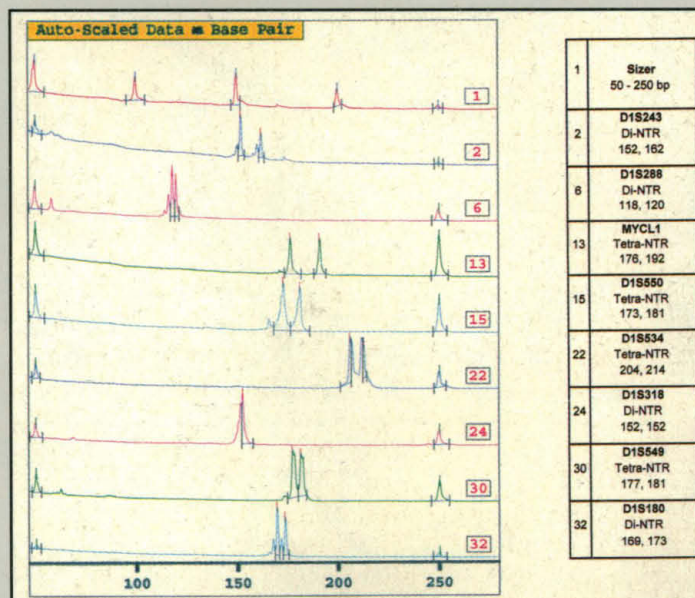
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