

(continued from page 503)

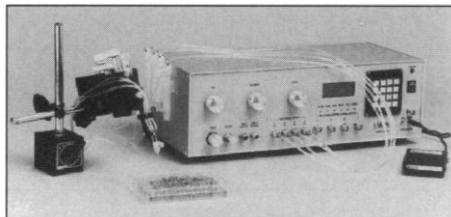
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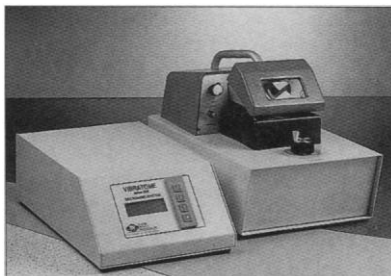


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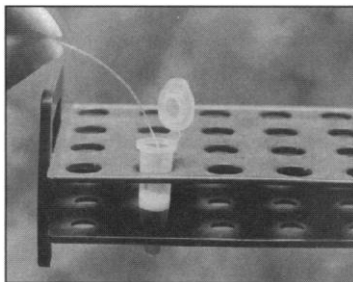
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Literature

Leica RM 2165: Sectioning Technology at Its Peak describes a fully motorized rotary microtome for universal use. It is suitable for routine applications in the medical laboratory, semi-thin sections required in biomedical research, and special applications including sectioning of small and hard samples such as elastomers and polymers in

industrial quality assurance and materials research. **Leica.** For information call +49 6224 143 233 or circle 148 on the Reader Service Card.

Guide to Techniques and Applications of Atomic Spectroscopy provides a quick reference to these techniques and how they can be used to solve analytical problems. It includes a section on the fundamentals of atomic spectroscopy, a listing of free reprints on a variety of applications, and a description of Perkin-Elmer's complete line of atomic spectroscopy instruments. **Perkin-Elmer.** For information call 800-762-4000 or circle 149 on the Reader Service Card.

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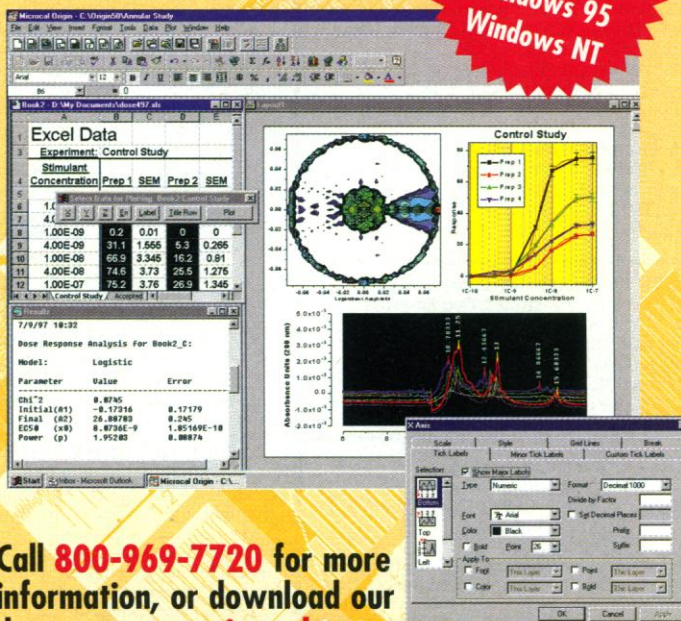
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POSITIONS OPEN

BIOLOGY DEPARTMENT HEAD

Applications are invited from persons qualified for appointment as Associate or Full Professor to serve as Head of the Department of Biology at James Madison University. Candidates must have a Ph.D. in a biological science, administrative experience, excellent interpersonal and communication skills, and the professional credentials to lead a department that has a strong record in both undergraduate teaching and research. Area of specialization is open. The Head will participate in teaching at the introductory level and at the advanced level in areas of special interest.

The Department Head is responsible for overseeing departmental curriculum, budget, and personnel actions. The Head is expected to consult and work effectively with all members of the department to reach departmental goals; encourage, advise, and assist faculty in reaching their full potential as teachers/scholars; and lead the department into a future with its changing educational environments. The department head must also work cooperatively with other department heads and university administrators, as a member of an administrative team.

The department has 21 full-time faculty members and 12 staff members or part-time instructors. In addition to the more than 700 undergraduate majors and 10 Master's students, the department makes a substantial contribution to the education of health-related majors and is committed to the university's General Education program. The department is one of five in the College of Science and Mathematics, has well equipped laboratories, and its faculty is currently active in a variety of research programs (see website: <http://www.jmu.edu/biology/>). The members are characterized as being very cooperative in solving problems, and in sharing equipment and resources. The department is also committed to collaborative efforts both with other departments and with other colleges.

The university is a state-aided institution with an enrollment of 13,700 undergraduate and 800 graduate students and is strongly committed to excellence in teaching and research. JMU is consistently highly ranked in national publications and is selective in its admissions. It is located in the heart of the Shenandoah Valley of Virginia, approximately 20 miles west of the Blue Ridge Mountains and Shenandoah National Park and 20 miles east of the Appalachian Mountains. The major population areas of Washington, D.C., Richmond, and Roanoke are about 2-hour drives. Harrisonburg, a city of 30,000, is about 15 minutes from the Shenandoah Valley Airport and less than an hour from the Charlottesville/Albemarle County Airport. James Madison University has as one of its objectives the development of a diverse student body. As a result, the university is seeking, in addition to outstanding qualities in the administrative and teaching sectors, faculty members with experience in advising, counseling, and teaching minority, female, and disabled students.

Anticipated date of employment is July 1, 1998. Salary is competitive. A complete application consists of a letter of application, curriculum vitae, philosophies of teaching and administrative leadership, long-term goals and research interests, and a list of at least five references including addresses, telephone numbers, and e-mail addresses. Applications received by December 1, 1997, will be assured consideration. Application materials should be sent to:

John W. Gilje, Chairman
Biology Department Head Search Committee
c/o College of Science and Mathematics, MSC 7502
James Madison University
Harrisonburg, VA 22807

James Madison University is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women, and persons with disabilities.

See website: <http://www.jmu.edu/biology/jobs.html> for details.

ASSISTANT PROFESSOR in invertebrate zoology. Preference for marine biology. This is a tenure-track position available fall 1998. Teaching load will include general biology (evolution, ecology, and organismal diversity, structure, and function), invertebrate zoology, marine biology, and biology seminar. Active participation in research with undergraduates expected. Ph.D. in biology and demonstrated excellence in teaching at the college level required. Send curriculum vitae, statements of teaching and research philosophy, and three letters of reference to: **Dr. Rob Stockhouse, Chairman Invertebrate Zoologist Search Committee, Department of Biology, Pacific University, Forest Grove, OR 97116.** Consideration of applications will begin November 3, 1997.

POSITIONS OPEN

FACULTY POSITIONS

The Department of Biology at California State University-Northridge invites applications for three tenure-track faculty positions at the **ASSISTANT PROFESSOR** level available August 1998.

MARINE BIOLOGIST/ECOLOGIST—Preference will be given to those candidates working in the near-shore environment on early life-history stages/recruitment and/or population dynamics of benthic organisms and who will complement existing faculty strengths. The successful applicant will be expected to develop an externally funded research program utilizing local marine facilities including those at the Southern California Marine Institute and Santa Catalina Island, and to supervise graduate (M.S.) research. Teaching responsibilities will include undergraduate courses (e.g., population biology and marine biology) and graduate seminars. Applicants should send a curriculum vitae, statements of teaching and research interests, and names and full addresses (including e-mail) of three references. Application deadline is November 17, 1997.

CELL/MOLECULAR BIOLOGIST—Applicants with interests in cellular and molecular biology will be considered; however, applicants with research interest in signal transduction or molecular endocrinology are especially encouraged to apply. Applicants should have postdoctoral training, teaching experience, and a strong commitment to teaching and research in an outstanding undergraduate and Master's-level setting. Candidates are expected to establish and maintain a vigorous externally funded research program. Teaching responsibilities may include courses for undergraduates, Master's-level students, and development of upper-division courses in their specialty. Submit a cover letter that includes a description of research plans, teaching philosophy, curriculum vitae, reprints of publications, and arrange to have three letters of reference sent. Application deadline is December 20, 1997.

MICROBIOLOGIST—Applicants must have a background in microbiology (preferably ecology/physiology) and either surface macromolecules or protein structure/function (e.g., protein analysis, folding, and assembly; recombinant, cell surface, or viral proteins; microbial toxins; signal transduction). The appointee must be able to teach courses in undergraduate general microbiology, and graduate-level microbiology in an area of specialty. Applicants must have Ph.D. in microbiology or related area, postdoctoral research experience, demonstrated research ability, evidence of teaching effectiveness, and strong commitment to teaching. Submit a letter of application outlining research interests, professional goals, and summary of teaching experience; curriculum vitae; official transcripts; and three letters of reference. Application deadline is December 20, 1997.

All candidates must be willing to occasionally teach undergraduate general biology. Please indicate which position you are applying for and send all information to: **Chair, Department of Biology, California State University-Northridge, 18111 Nordhoff Street, Northridge, CA 91330-8303.** The University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN NEUROBIOLOGY

The Neurobiology of Aging Laboratories (NAL) at the Mount Sinai School of Medicine invite applications for a **TENURE-TRACK FACULTY POSITION** in the area of neurophysiology. Although all qualified candidates will be given full consideration, investigators focusing on neocortical, hippocampal, or hypothalamic neurophysiology are especially encouraged to apply. Successful applicants at the Assistant Professor level will have completed postdoctoral training and show strong potential for developing an innovative program of sponsored research. Established investigators will be considered for appointment at a higher rank. Prior involvement in aging research, while desirable, is not required. NAL provides an outstanding intellectual environment that actively fosters interdisciplinary and collaborative research on the neurobiology of normal aging and age-disease. The department is housed in the newly constructed East Building in the Mount Sinai campus, occupying over 10,000 square feet of modern laboratory and office space. Salary and start-up funds are highly competitive, commensurate with rank. Interested applicants should submit curriculum vitae, a brief statement of research interests, and at least three letters of recommendation to: **Faculty Search Committee, Neurobiology of Aging Laboratories, Mount Sinai School of Medicine, Box 1639, One Gustave L. Levy Place, New York, NY 10029-6574.** We are an Equal Opportunity Employer fostering diversity in the workplace.



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Neuroscience Drug Discovery

Bristol-Myers Squibb is a recognized leader in discovering and developing novel cost-effective pharmaceutical therapies that improve health and quality of life. The Pharmaceutical Research Institute, Neuroscience Drug Discovery Group, has new and exciting opportunities focused on the identification of novel therapies for the treatment of major neuropsychiatric and neurodegenerative diseases.

Electrophysiology

Two positions are available for B.S./M.S. level scientists with two or more years of experience. One position requires experience with in vivo recording techniques and small animal surgery and handling. The second position requires experience using *Xenopus* oocytes as a system for the expression of cloned ion channels, and requires a familiarity with two-electrode voltage clamp techniques and mRNA oocyte preparation and microinjection. Dept. PRHNS476/8.

Transgenics

We have a position available for a Ph.D. with 3-5 years postdoctoral experience and a demonstrated track record in constructing mouse models for use in drug discovery. Direct experience in manipulating ES cells required. A background in Neuroscience research preferred. Dept. PRHTV465.

Behavioral Pharmacology

Two positions are available for Ph.D.s with 3-5 years of postdoctoral experience and B.S./M.S. level scientists with at least two years experience, which includes experience using and evaluating animal models of neurodegenerative disorders including Parkinson's disease, traumatic head injury, spinal cord injury, stroke, and peripheral neuropathies. The ability to develop these models and carry out appropriate behavioral studies to test the efficacy of potential therapeutic entities is essential. Dept. PRHN456644.

Smooth Muscle Pharmacologist

A position is available for a B.S./M.S. level scientist with two or more years experience in isolated smooth muscle pharmacology and hands-on experience using isolated vascular and/or other smooth muscle preparations in organ baths in vitro. Use of computer-controlled data capture and analysis systems desirable. Excellent microscopic surgical skills and experience with microvessels are assets. Candidates must possess a strong working knowledge of receptor theory and smooth muscle physiology and pharmacology. Dept. PRHNSHW472.

Cell Biologist with Experience in Protein Biochemistry

A challenging opportunity is available for an innovative scientist to join a multidisciplinary team developing novel therapeutics to treat neurodegenerative diseases. Candidates must have Ph.D., 3-5 years postdoctoral experience, and a consistent record of scientific achievement in the area of neural development or neurodegeneration. Training in cell biology and protein biochemistry, and experience developing assays to investigate mechanisms of signal transduction pathways also required. Dept. PRHNSSR469.

Microdialysis Associate

A position is available for an M.S./B.S. candidate with 2-4 years of experience with in vivo microdialysis to perform in vivo brain microdialysis experiments to support the development of novel therapeutics for a variety of neuro-psychiatric conditions. Candidates with extensive experience in HPLC and some in vivo techniques or experience with rodent stereotaxic surgery techniques and animal handling may be considered. Experience with data analysis and statistics would also be an advantage. Dept. PRHNSMT460.

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Faculty Position in Developmental Neurobiology

As part of a long-range commitment to neurobiological research at **St. Jude Children's Research Hospital (SJCRH)**, the Department of Developmental Neurobiology is seeking to expand through the recruitment of junior faculty. Preference will be given to applicants with research programs that complement the department's existing strength in mammalian neurodevelopment. In particular, investigators using contemporary approaches to elucidate the molecular basis of lineage determination in the mouse nervous system are encouraged to apply. It is anticipated that successful applicants will have graduated within the past five years and have already achieved recognition through high profile publications.

SJCRH has made a substantial investment in Developmental Neurobiology in terms of space and resources, thereby making it possible to offer very competitive packages for incoming junior faculty. This includes: salaries for the investigator and their personnel; new laboratory space; as well as start-up and continuing support for equipment and consumables. In addition, appointees have access to a range of institutional core facilities for protein and nucleic acid chemistry and transgenics. The department is already well equipped for most aspects of cell and molecular biology, transgenics, electrophysiology and anatomical analysis.

There are presently six faculty members in Developmental Neurobiology with research interests in the functional and anatomical organization of the developing nervous system, the control of neural death and regeneration, neural plasticity, molecular oncogenesis and the regulation of gene transcription. Those interested in joining this multidisciplinary department should arrange to have their CV, a brief research proposal and three letters of recommendation sent to the **Developmental Neurobiology Search Committee, Attention: Ms. Sharon Sisk, St. Jude Children's Research Hospital, 332 N. Lauderdale, Memphis, TN 38105.**

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Signal Transduction and Visual Systems

As part of a significant enhancement of its basic science programs and laboratory facilities, Cornell University Medical College is undertaking a major program initiative in the area of Neuroscience and is seeking to recruit tenure track faculty at all levels. We are especially interested in candidates with research interests related to developmental neurobiology, molecular neuroscience, signal transduction and retinal biology (with an emphasis in cell and/or developmental biology and genetics). Exceptional candidates in other related/appropriate fields will also be considered. Candidates for junior positions should demonstrate the potential for establishing a vigorous independent research program, and candidates for senior positions should have an outstanding record of productivity. Candidates may have Ph.D., M.D., or M.D.-Ph.D. degrees.

Recruited faculty will receive generous start-up support. Candidates may participate in the Graduate School of Medical Sciences program which includes faculty from the Cornell University Medical College and the Sloan-Kettering Institute. Applications should include a curriculum vitae, statement of research interests, and the names and addresses of three references. Applications should be sent to: Jack Barchas, M.D., Chair, Neuroscience Recruitment Team, Box # 27, Cornell University Medical College, 1300 York Avenue, New York, NY 10021.

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THE ROBERT A. SILVER CHAIR for research in NEURODEVELOPMENTAL DISORDERS affecting the behavior of children

The University of South Florida is seeking applications from qualified individuals for the Robert A. Silver Endowed Chair for research in developmental disorders that affect the behavior or mental well-being of children. The successful applicant will also serve as Director of the David R. Murphey Laboratory at the University's Institute for Research in Psychiatry.

The focus of the chairholder's scientific activity is expected to include studies aimed at discovering cellular and molecular mechanisms involved in the development of the central nervous system and the role that these play in the etiology, course, and treatment of disorders that affect the mental well-being or behavior of children.

Applicants should possess an M.D. or Ph.D. degree, or the equivalent, and have a record of nationally recognized research and accomplishment in areas relevant to understanding mechanisms that shape and determine the structure and function of the human central nervous system. They should also have demonstrable skill and experience with external grant support, as well as evidence of leadership, administration, and teaching skills.

Applications and inquiries should be addressed to:

**Anthony Reading, M.D., Sc.D. Chair,
Robert A. Silver Search Committee,
3515 E. Fletcher Avenue, Tampa, Florida
33613, (813) 972-7050.**

The deadline for applications is
November 30, 1997.

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The Science of Agricultural Genetics

RESEARCH MANAGER — 2 Positions (Job #CP-802)

Crop Protection — Maize Transformation

Two openings exist for team leaders who will focus on the introduction of crop protection traits into Pioneer germplasm via plant transformation. The successful candidates will develop and implement the most efficient methodology for production of transgenic maize, and be a contributing member of a large interdisciplinary team designed to aggressively move products from the lab to the field. Minimum requirements are a Ph.D. in plant sciences or a related field, plus 3-5 years direct experience in maize transformation, or a M.S. in plant sciences plus 6-8 years relevant experience. Strong leadership abilities plus excellence in written and verbal communications are required, as is extensive familiarity with statistics and MS Office software. Application deadline: November 3, 1997.

RESEARCH ASSOCIATE (Job #CP-803)

Crop Protection — Maize Transformation

An opening exists on a team focused on the introduction of new crop protection traits into Pioneer maize germplasm by plant transformation. The successful candidate will conduct experiments to produce transgenic maize plants for gene evaluation and product development. Minimum requirements include a M.S. or B.S. in plant sciences or closely related fields with an additional 1-2 years experience in plant transformation and tissue culture, preferably with maize. Strong leadership abilities plus excellence in written and verbal communications are required, as is extensive familiarity with statistics and MS Office software. Application deadline: November 3, 1997.

RESEARCH ASSOCIATE (Job #CP-804)

Crop Protection

A research associate position in molecular pathology is available to isolate genes and promoters toward disease resistance. Duties will include construction and screening of cDNA and genomic libraries, DNA cloning and analysis of gene expression, DNA and RNA isolation, Southern and Northern blot assays. The candidate should have good knowledge and bench experience in molecular plant/pathogen interaction, signal transduction, cDNA library construction and gene isolation, PCR technology, plant transformation, and transgene expression analyses. Expertise in molecular technologies and plant pathology is desired. Good communication and organization skills and ability to work independently are essential. This position requires a M.S. degree with more than 2 years experience in molecular biology/plant pathology or a related field. Application deadline: November 17, 1997.

RESEARCH ASSOCIATE (Job #AB-803)

Analytical Biochemistry

The Department of Analytical Biochemistry is looking for a highly motivated individual to join the Protein Assay Development Lab in Trait and Technology Development. We require experience in immunoassay development such as ELISAs, western blots, dot blots, enzyme assays, trouble shooting existing assays and a knowledge of conjugation chemistry. The successful candidate will participate in research of emerging detection systems with an emphasis on increased efficiency and high throughput. This person will be expected to work independently and may be asked to supervise others. Minimum requirements are a B.S. in biological sciences or equivalent plus 4-6 years experience. Good communication skills and knowledge of PC computer software such as Excel, Word, and PowerPoint are essential. Familiarity with statistics will be considered a plus. Applications received by November 7, 1997 will be assured of consideration; however, applications will be considered until the position is filled.

SENIOR RESEARCH ASSOCIATE (Job #AB-805)

Analytical Biochemistry — Spectroscopy

The successful candidate will join a laboratory that is responsible primarily for developing spectroscopic and electrochemical methods for identifying and characterizing various constituents in corn, soybeans, and other field crops developed by Pioneer. The primary responsibility of the successful candidate will be to conduct experiments leading to the development of new spectrometric- and/or electrochemical-based assays that support Research within Pioneer. Experiments will be designed and conducted to meet clearly defined goals and timelines. An M.S. degree or equivalent in Analytical Chemistry or related field or a B.S. in Analytical Chemistry or related field plus 3 years relevant experience is required. A thorough understanding of multivariate calibration development as applied to spectroscopic data is essential. Experience with digital signal processing techniques (i.e. Fourier Filtering, Finite Impulse Response, etc.) is highly desired as well as an understanding of NIR, FT-IR and Raman spectroscopies. In addition to strong technical expertise, the successful candidate must have the ability to work independently and as a member of an interdisciplinary team. Proficiency in IBM-compatible PC software is desired but not required. Strong interpersonal and communications skills are a must. Applications received by November 1, 1997 will be assured of consideration; however, applications will be considered until the position is filled.

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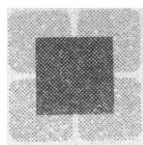
NIMH NATIONAL TRAINING PROGRAM IN COMPLEX SYSTEMS AND BRAIN SCIENCES AT FLORIDA ATLANTIC UNIVERSITY PRE-AND POSTDOCTORAL FELLOWSHIPS

Predocutorial and Postdoctoral fellowships are available, funded by NIMH (Division of Basic Brain and Behavioral Sciences). Individuals with undergraduate degrees in pertinent disciplines are invited to apply for this 5-year training program leading to the Ph.D. degree in Complex Systems and Brain Sciences. The Program is administered through the Center for Complex Systems established in 1985. The aim of the Program is to couple theoretical concepts and methods for handling complex systems to specific experimental research in the cognitive and brain sciences.

Graduate training consists of a core curriculum in non-linear dynamics and neuroscience (including computational modeling and cognitive science). Postdoctoral candidates should have a strong interdisciplinary interest.

Research areas include: sensorimotor coordination and learning, human brain imaging and event-related potentials, brainstem mechanisms of behavior, neural growth and development, ion channel dynamics, speech production and perception, neurolinguistics, visual perception, mathematics of complex systems, nonlinear dynamics, neural networks and robotics.

Applicants should send a letter of interest, GRE scores (graduate fellows only), vitae, and 3 letters of reference to: Rhona Frankel, Program in Complex Systems and Brain Sciences, Florida Atlantic University, 777 Glades Road, Boca Raton, FL 33431. E-mail: frankel@walt.ccs.fau.edu. Please visit our website: <http://www.ccs.fau.edu>.



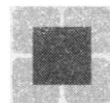
MOLECULAR GENETICS OF HUMAN DISEASE Center for Molecular Genetics The Lerner Research Institute The Cleveland Clinic Foundation

Several faculty positions are available in the Center for Molecular Genetics at the Cleveland Clinic Lerner Research Institute. Successful applicants will be expected to develop a competitive research program in an area which relates to human genetic disease in its widest sense. Although appointments can be made in any field, individuals working in Neuro-oncology and Neurogenetics are particularly encouraged to apply. A proven ability to apply state-of-the-art molecular genetic techniques to the study of human disease is required and the Cleveland Clinic has abundant clinical material available as a resource to support human genetic research. Excellent salaries and benefits along with generous start-up support for equipment, supplies, and personnel are available. The Cleveland Clinic Lerner Research Institute, with approximately 100 principal investigators and an annual research budget of \$83M, provides an exciting environment for molecular genetics research. Salary and rank are open and depend on the qualifications and experience of the candidate.

Applicants should send their curriculum vitae and a statement of research interests with names, addresses, and telephone numbers of three individuals from whom letters of reference can be obtained to:

The Chairman
Molecular Genetics Search Committee - NC30
The Lerner Research Institute
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, Ohio 44195

The Cleveland Clinic Foundation is an Equal Opportunity/Affirmative Action Employer.



Faculty Positions in the Department of Neurosciences The Cleveland Clinic Foundation Lerner Research Institute

The Department of Neurosciences seeks outstanding candidates to fill several Faculty positions. While the search is focused at the Assistant Staff level, qualified Associate or Full Staff candidates will be considered. Applicants must have a Ph.D. and/or M.D. and an active, independent research program that utilizes state-of-the-art techniques to investigate cellular and molecular aspects of neurobiology. Candidates with research programs in glial development, cortical development, synapse function, cell signaling, or pathogenesis of human CNS disease are encouraged to apply. Excellent departmental facilities and generous start-up funds are available.

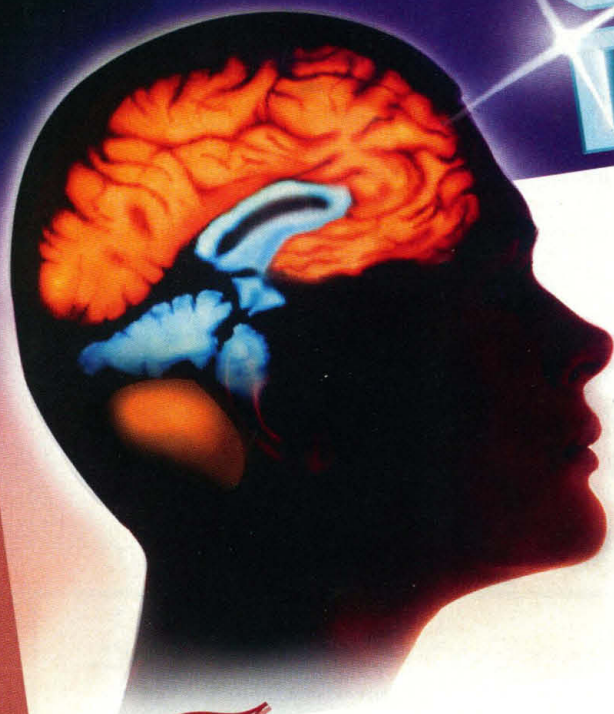
The Department of Neurosciences and the Lerner Research Institute are undergoing rapid growth. The Department of Neuroscience has strong programs in developmental and cellular neurobiology, excitable membranes, cell signaling, and human genetics. Opportunities for interactions with Clinical Neurosciences Departments are plentiful.

Start date is October, 1998, and coincides with the opening of the Lerner Research Institute in October, 1998. Candidates should submit a curriculum vitae, a list of publications, a brief statement of research interests, and three letters of reference to:

Search Committee
Department of Neurosciences NC30
Lerner Research Institute
The Cleveland Clinic Foundation
9500 Euclid Avenue
Cleveland, Ohio 44195

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CNS DRUG DISCOVERY



This is your opportunity to join Wyeth-Ayerst Research, a major division of Fortune 100 American Home Products Corporation. As a research-intensive company, we are focused on finding breakthroughs in treating or preventing serious health problems. We are currently seeking scientists within CNS Drug Discovery at our Princeton, New Jersey facility.

The innovative research being conducted at Wyeth-Ayerst promise a new generation of drugs for the treatment and prevention of such debilitating disorders as Alzheimer's Disease, schizophrenia, depression, anxiety, stroke and Parkinson's Disease, as well as a more profound insight into the disease processes associated with these illnesses.

Current programs within CNS at Wyeth-Ayerst Research rest on a firm foundation of expertise in molecular and cell biology coupled with the integration of those disciplines with the more traditional CNS research areas of neurochemistry, behavioral pharmacology, electrophysiology and molecular neuroanatomy. The strengths that emerge from within an organization possessing such a diverse array of talent and scientific skills, focused on common objectives and with shared appreciation for scientific discovery, are tremendous. We are optimistic that our scientists will capitalize on many new insights and discoveries to initiate new therapeutic approaches for the treatment of neurological diseases.

We invite B.S., M.S., and Ph.D.-level scientists to join our world-class team in CNS Drug Discovery. Wyeth-Ayerst offers a competitive salary and benefits package along with one of the best employee stock option award programs in the pharmaceutical industry.

Please send your resume with salary requirements to: **Wyeth-Ayerst Research, Human Resources Dept., Position # OPSCI-CNS, P.O. Box 7886, Philadelphia, PA 19101-7886**, or fax your resume (in fine mode if possible) directly into our centralized Research resume database at **(610) 989-4854**. E-mail: **jobs@RAMAIL1.wyeth.com** (ASCII format, no attachments, subject: resume). Principals Only.

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- 15 Awards Annually
- Scholarships up to \$25,000
- Two Summer Internships at a Merck Research Facility

An applicant must:

- Be a full-time student at any four-year college or university
- Have junior year academic status
- Major in a life or physical science
- Have a minimum cumulative and major field GPA of 3.3 (4.0 point scale)

GRADUATE

SCIENCE RESEARCH
DISSERTATION FELLOWSHIPS

- 12 Fellowships Annually
- Fellowship Stipends up to \$25,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Be enrolled full-time in a Ph.D. or equivalent doctoral program in a biomedical life or physical science
- Be within 2 years of completing dissertation research

POSTDOCTORAL

SCIENCE RESEARCH
FELLOWSHIPS

- 10 Fellowships Annually
- Fellowship Stipends up to \$40,000
- Department Grants of \$15,000
- Support for 12-24 months

An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow during the 1998 calendar year at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American and U.S. citizens or permanent residents.

Applications must be postmarked by January 15, 1998

For application forms and more information, please contact your department chairperson or Jerry L. Bryant, Ph.D., by mail at *The College Fund/UNCF*, 8260 Willow Oaks Corporate Drive, P.O. Box 10444, Fairfax, VA 22031-4511, by fax (703) 205-3574, or by E-mail: uncfmerck@uncf.org

Visit our web site: www.uncf.org

Molecular Biologist

Be at the forefront of drug development research with the DuPont Merck Pharmaceutical Company. We are focused on meeting unmet medical needs through the discovery and development of innovative compounds leading to novel pharmaceuticals. We have an opportunity for a BS/MS level scientist to join our quantitative gene expression group.

The successful candidate will have a broad-based knowledge of molecular biology procedures including cDNA cloning, DNA sequence analysis, RT-PCR, northern analysis, and RNase protection along with substantial experience culturing mammalian cell lines. BS/MS degree in Molecular Biology or related field and 2-3 years of work experience required.

Our location, in Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. The DuPont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package. To be considered, please forward your resume to: Human Resources-(SD-JOB), The DuPont Merck Pharmaceutical Company, Experimental Station, 400/2413, P.O. Box 80400, Wilmington, DE 19880-0400. An equal opportunity employer, M/F/D/V.

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Merging Strengths...Emerging Opportunities.

AgrEvo Canada Inc.

Leading Canadian Agriculture into the Twenty-First Century.

As a result of rapid expansion, AgrEvo Canada Inc. a leader in crop production, plant protection and environmental health both in North America and the world, has an excellent opportunity for:

Manager—Biotechnology Research.

Responsibilities include the direction of a research group based in AgrEvo Canada Inc., Saskatoon, Saskatchewan Canada, which will be linked to a local *Brassica* oilseeds breeding team and forming part of a global biotechnology research team within AgrEvo/PGS.

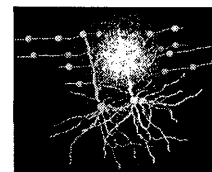
Position assists in the development of global research objectives and the implementation of these objectives at the local research site and in providing technical expertise in the identification and assessment of emerging technologies in Canada and U.S.

Position requires a PhD and expertise in plant molecular and/or cell biology with an emphasis in plant biotechnology and 3-5 years experience in a scientific research role.

Experience in research project management preferred. Strong communication and interpersonal skills, as well as ability to participate in a global research environment, essential.



Submit resume and references to:
Human Resources Department
AgrEvo Canada Inc.
295 Henderson Drive
Regina, Saskatchewan S4N 6C2
Fax: 306.721.1844



DEPARTMENT OF NEUROBIOLOGY

UAB is a Carnegie Division I research institution with over 250 million dollars in annual research grant support. The University has widely recognized centers of excellence including the AIDS Center, Comprehensive Cancer Center and Civitan Center for the study of mental retardation/developmental disorders. The Schools of Medicine and Dentistry have expanded their commitment to the neurosciences by forming the Department of Neurobiology as a new Basic Health Science Department. The department currently has 10 primary and 25 secondary faculty with additional faculty recruitment underway.

➤ The primary Neurobiology faculty already have received considerable support and recognition for their research and training efforts including: an NSF predoctoral training grant in Cellular and Molecular Neurobiology, an NIH Developmental Disabilities Research Center Grant, a Lucille P. Markey Foundation Center Development Grant, a W.M. Keck Foundation Center Development Grant, and individual awards including an NIH Javits Investigator Award, Alfred P. Sloan Fellowships and an NIH Fogarty Foundation Sr. International Fellowship.

➤ The primary faculty currently hold 33 research and training grants and are supervising the training of 21 graduate students and 16 postdoctoral fellows in the department.

➤ Students enter the department directly or through programs such as the UAB Neuroscience Graduate Training Program or the MD/Ph.D. program.

➤ The department currently occupies 25,000 square feet in the recently constructed Civitan International Research Center with custom-designed laboratories and a wide range of state-of-the-art core facilities including molecular neurobiology, cell culture and oocyte expression, 3-dimensional quantitative imaging, laser scanning confocal microscopy, calcium imaging and electron microscopy/immunocytochemistry.

➤ Individual investigator's laboratories are fully equipped for study of ion channel biophysics, calcium imaging, molecular neurobiology, biochemistry and electrophysiology.

Primary Faculty

•Michael J. Friedlander, Ph.D.
Professor and Chair

•John J. Hablitz, Ph.D.
Professor

•Craig C. Garner, Ph.D.
Associate Professor

•Stuart C. Mangel, Ph.D.
Associate Professor

•Harald W. Sontheimer, Ph.D.
Associate Professor

•David S. Weiss, Ph.D.
Associate Professor

•Robin A.J. Lester, Ph.D.
Assistant Professor

•Lucas D. Pozzo-Miller, Ph.D.
Assistant Professor

•Michael W. Quick, Ph.D.
Assistant Professor

•Anne B. Theibert, Ph.D.
Assistant Professor

The primary faculty have particular research and training strengths in the following areas:

- Neurobiology of disease** with emphasis on seizures, neurodegeneration, brain injury and tumors, and developmental disorders including mental retardation
- molecular and biophysical properties of **ion channels**
- neurotransmitter receptor and transporter** function and molecular neuropharmacology
- inter-and intracellular **signaling and transduction**
- glial biology** and electrophysiology
- molecular basis of **synapse formation** and assembly
- synaptic plasticity** and development
- quantitative cellular **image analysis** including **calcium compartmentalization**

Individuals with interest in graduate studies, postdoctoral fellowships and research track-faculty positions are encouraged to contact the department for more information regarding educational, training and career opportunities. Send inquiries to:

Michael J. Friedlander, Ph.D. Tel 205-934-0100
Professor and Chair, Fax 205-934-6571
Department of Neurobiology email mjf@nrc.uab.edu
1719 6th Avenue South,
University of Alabama at Birmingham
School of Medicine
Birmingham, AL 35294

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In the world of health care, few companies are in a position to do so much for so many people as Hoffmann-La Roche. Our mission is to identify and satisfy the health care needs of the world. In our never-ending quest for innovative products, we exercise imagination, ingenuity and an uncompromising pursuit of discovery.

**Bioinformatics,
 Principal Scientist/Ph.D Level**

We are expanding our group of scientists applying DNA chip technology in pursuit of novel targets for Oncology, Inflammation and Metabolic diseases. Join this gifted and committed team and your major responsibilities will include DNA-chip design, identification of function through sequence analysis and complex pattern detection in expression data.

To qualify, you should have a Ph.D. in Biological Sciences or Computer Science and at least 2 years' experience or equivalent in the fields of genomics research, sequence/structure analysis or related research. Demonstrated expertise in search algorithms and methods, data analysis and problem solving is a requirement, as is experience with UNIX workstations. A solid insight into biological problems and superior communication skills are also keys to success.

We offer competitive salaries and a benefit package that includes on-site child care and fitness centers. For consideration, please forward your resume to: **Human Resources, Hoffmann-La Roche, 340 Kingsland Street, Bldg. 76/508, Dept. Code SS1017JH, Nutley, NJ 07110.** We appreciate your interest in Hoffmann-La Roche but can only respond to qualified candidates. Hoffmann-La Roche is an equal opportunity employer fully committed to diversity in the workplace.

Roche

FELLOWS PROGRAM

1998

Applications are invited for postdoctoral fellowships at the Beckman Institute for Advanced Science and Technology at the University of Illinois at Urbana-Champaign. The Beckman Institute is a multi- and interdisciplinary research center that focuses on three main research themes: Biological Intelligence, Human-Computer Intelligent Interaction, and Molecular and Electronic Nanostructures.

The Beckman Institute Fellows Program provides an excellent opportunity for young scholars to initiate a post-Ph.D. career of independent research in a stimulating and supportive interdisciplinary environment. The fields of research encompassed by the fellowships program include the behavioral and biological sciences, chemistry, engineering, and physics.

1998 Fellows will be appointed for up to 3 years, beginning as early as June 1998, and no later than December 1998. The stipend is \$40,000/year, plus benefits and a research budget. Selection of Fellows is based on evidence of professional promise, capacity for independent work, outstanding achievement to date, and interdisciplinary research interests corresponding to one or more of the Institute's programs.

<http://www.beckman.uiuc.edu>

Application Procedure:

Application packets should be requested from:
 Keven Haggerty, Office of External Affairs and Research
 Beckman Institute for Advanced Science and Technology
 University of Illinois, 405 North Mathews Avenue, Urbana, IL 61801
 Tel: (217) 244-9489; Fax: (217) 333-2922; E-mail: haggerty@uiuc.edu

Deadline:

A postmark no later than Friday, January 9, 1998; Announcement of Fellows on or about April 15, 1998

BECKMAN INSTITUTE

The Beckman Institute Fellows Program is supported by funding from the Arnold and Mabel Beckman Foundation. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

University of Toronto Faculty of Medicine Departments of Biochemistry & Medical Genetics and Microbiology

Applications are invited for two tenure stream faculty positions to build on our strengths in research on the structure and function of macromolecules. The positions will be located in the Medical Sciences Building on the downtown campus of the University of Toronto which is directly adjacent to several excellent hospital-based research institutes.

Department of Biochemistry — The Department is seeking to fill a position in the area of protein synthesis, folding, and intracellular trafficking. This is a designated area for recruitment to augment existing research strengths in chaperone mediated protein folding and intracellular protein targeting.

Departments of Biochemistry & Medical Genetics and Microbiology — The second position, in the fields of computational structural biology and/or genomics/evolution, will be a joint appointment in the Departments of Biochemistry & Medical Genetics and Microbiology. These Departments are home to an expanding group focused on structure determination, folding, and dynamics.

Requirements include a Ph.D. degree or equivalent and at least two years of post-doctoral training. The successful applicants will be expected to establish excellence in an independent research programme, to compete effectively for external funding, and to contribute to the Departmental teaching programmes. Effective July 1, 1998, the appointments will normally be made at the Assistant Professor level although outstanding applicants at a higher level will be considered. Salary will be commensurate with qualifications and experience.

Applicants should forward a curriculum vitae outlining current and long-term research objectives and arrange for three letters of reference to be sent directly to **Chair of the Search Committee, Department of Biochemistry, University of Toronto, Toronto, Ontario, Canada M5S 1A8.** The closing date for applications is January 1, 1998.

WWW site

<http://bioinfo.med.utoronto.ca>

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men including members of visible minorities, aboriginal peoples, and persons with disability.

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incredible people
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What does your work mean to you? At Genentech, our work represents a commitment to progress, a quest for discovery. What matters to us? Something incredibly simple – bettering human health. Whether experimenting with a next-generation medicine, or producing one of our five marketed products in manufacturing, you'll play a critical part in making our vision a reality. Each day, we make it more real. If you share that passion for life, imagine what we could do with your help. It's incredible, and extraordinary.

www.gene.com

Research Assistant/Research Associate

Provide technical support for the *Xenopus* oocyte assay in this challenging role. Collect, process, microinject, stain and analyze *Xenopus* embryos while maintaining database information. You will be responsible for implementing microinjection, whole mount in situ hybridization and immunohistochemistry protocols, as well as identifying additional marker probes and antibodies for this assay. This position is available on a contract basis for 1-3 years.

We seek a highly motivated individual with a BS or equivalent and previous experience in embryology and microinjection. In situ hybridization or immunohistochemistry experience is a plus. Excellent communication, organizational and problem-solving skills are vital and the ability to work as part of a team is required. HT (ASCP) registered candidates are encouraged to apply.

Our progressive benefits package includes full medical/dental/vision, 3 weeks vacation, a stock purchase plan and health club membership. Send your resume, indicating Job Code SCI935, to: Genentech, Inc., Human Resources, P. O. Box 1950, South San Francisco, CA 94083-1950. Please use plain typefaces, we cannot accept faxes. You may e-mail your resume indicating Job Code to jobs@gene.com (ASCII files only with a maximum line width of 76 characters). Genentech is an Equal Opportunity Employer. We value the contributions of our diverse workforce.

MAKE A DIFFERENCE IN THE QUALITY OF LIFE

The Hyland Division of Baxter Healthcare, a global leader in human protein therapeutics, is seeking energetic individuals who can contribute effectively in a multi-disciplinary research & development environment in the following areas:

SENIOR RESEARCH SCIENTIST

We seek a dynamic individual with demonstrated broad expertise in the biochemical investigation of proteins to participate in the study of structure and function of protein therapeutics under development. Applicants must be thoroughly versed in a wide variety of analytical techniques and their application to the study of protein structure and function, including strong evidence of publications and other scientific contributions. Prior experience in a multi-disciplinary approach to product development is required, along with demonstrated understanding of product development and the relation of business goals to technical objectives. Excellent interpersonal and communication skills are essential. The successful candidate will make key recommendations to develop program plans, lead and evaluate technical activities. A Ph.D. in biochemistry with relevant postdoctoral and industrial experience is required.

RESEARCH SCIENTIST

We seek an individual with demonstrated expertise in the clinical application and function of immunoglobulins, with emphasis in the area of infectious diseases. The successful candidate will lead and conduct research and development activities to identify and evaluate product opportunities, and will provide technical input to support business objectives. A strong background in Clinical Immunology and Microbiology is required. The ability to interact in a group setting, excellent communication skills and a knowledge of clinical issues are essential. A Ph.D. degree in Immunology with relevant experience is required.

Baxter Healthcare is synonymous with products, systems and services devoted to improving health care throughout the world. We provide a smoke-free environment, competitive compensation and benefits. Please forward your resume in confidence (*indicating on the outer envelope the position of interest*) to: Baxter Healthcare, Hyland Division, Human Resources, 1720 Flower Avenue, Duarte, CA 91010, USA; FAX: 626-305-5020; e-mail: blindem@baxter.com. *An Affirmative Action / Equal Opportunity Employer.*

Biotech Group, Hyland Division

Baxter

POSITIONS OPEN

FACULTY POSITION IN GENERAL BIOLOGY

The Department of Biology, Middle Tennessee State University (MTSU), invites applications for a tenure-track position (Number 103390) **ASSISTANT/ASSOCIATE PROFESSOR**, doctorate required, starting August 1998. Position subject to funding availability. The successful applicant must have a broad background in biology. Primary teaching duties in one-semester nonmajors course. Evidence of excellence in teaching essential. Demonstrated interest in instructional technology required. Research/public service is expected. Applicant reviews begin 24 November. Send application referencing position number, transcripts, and three letters of reference to: **Dr. Sarah Barlow, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. E-mail: sbarlow@mtsu.edu.** *Equal Opportunity/Affirmative Action/ADA Employer.*

FACULTY POSITION IN CONSERVATION BIOLOGY (BOTANY)

The Department of Biology, Middle Tennessee State University (MTSU), invites applications for a tenure-track position (Number 103150) **ASSISTANT/ASSOCIATE PROFESSOR**, doctorate required, starting August 1998. Position subject to funding availability. The successful applicant must have a broad background in botany and plant ecology. Research/public service is expected as is the teaching of lecture/laboratory in the above areas and in a nonmajors course. Applicant reviews begin 24 November. Send application referencing position number, transcripts, and three letters of reference to: **Dr. Kurt Blum, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. E-mail: fcbailey@frank.mtsu.edu.** *Equal Opportunity/Affirmative Action/ADA Employer.*

FACULTY POSITION IN ANATOMY AND PHYSIOLOGY

The Department of Biology, Middle Tennessee State University (MTSU), invites applications for a tenure-track position (Number 103280) **ASSISTANT/ASSOCIATE PROFESSOR**, doctorate required, starting August 1998. Position subject to funding availability. Responsibilities include teaching human Anatomy and Physiology, other vertebrate courses, and develop a course in environmental physiology. Research/public service is expected. Applicant reviews begin 24 November. Send application referencing position number, transcripts, and three letters of reference to: **Dr. William Stewart, Committee Chair, Box 60, MTSU, Murfreesboro, TN 37132. E-mail: wstewart@frank.mtsu.edu.** *Equal Opportunity/Affirmative Action/ADA Employer.*

FACULTY POSITION IN NEUROETHOLOGY CORNELL UNIVERSITY

The Section of Neurobiology and Behavior invites applications for a tenure-track position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D., an excellent record of scientific productivity, and a commitment to undergraduate and graduate teaching. Candidates should have research interests in behavioral neurobiology with expertise in one or more of the following areas: sensory and motor systems physiology, evolutionary neurobiology, computational neuroscience. Send application, curriculum vitae, and three letters of reference to: **Chair, Neuroethology Search Committee, Section of Neurobiology and Behavior, Cornell University, Ithaca, NY 14853-2702.** Review of applications begins November 15, 1997. *Women and minority candidates are strongly encouraged to apply. Cornell University is an Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION IN NEUROSCIENCE

The Department of Neuroscience at the University of Virginia seeks to recruit an Established Investigator in the areas of cellular, molecular (especially genetic), or developmental neuroscience. Applicants should have a distinguished record of scholarly activity and a well-established research program. We anticipate making this appointment at the **ASSOCIATE or FULL PROFESSOR** level.

Applicants should submit a curriculum vitae which includes a summary of current research activities, and the names and telephone numbers of three references to:

Faculty Search Committee

c/o Oswald Steward, Ph.D., Professor and Chair
Department of Neuroscience
University of Virginia Health Sciences Center
Charlottesville, VA 22908

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

POSITIONS OPEN

DEPARTMENT CHAIR CHEMISTRY AND BIOCHEMISTRY

The Department of Chemistry and Biochemistry at the University of Maryland, College Park, invites applications and nominations for Chair of the department. The Chair is the chief administrative officer of the department, with overall responsibilities for faculty and staff recruitment, budget, promotion, and instruction. The unit is part of the College of Life Sciences, and the Chair reports to the Dean of the College. The successful candidate will have an earned doctorate and be eligible for appointment at the rank of Professor. We are seeking candidates with outstanding records in research and in education, along with administrative skills and vision to help lead the department through a major growth phase.

The department teaches 500 undergraduate majors in two curricula, biochemistry and chemistry. The unit offers M.S. and Ph.D. degrees in biochemistry and in chemistry, and its faculty members participate in several interdepartmental graduate programs. More than 160 graduate students are currently conducting research in the department, and the unit employs approximately 100 students as graduate teaching assistants. The department awards an average of 13 M.S. and 24 Ph.D. degrees a year.

The department currently consists of 38 tenure-track faculty and has an operating budget of \$5.5 million. Last year, the faculty received \$8.5 million in external funds to support research. The unit is slated to grow to fifty faculty members over the next five years. This expansion will be accompanied by major renovations in the Chemistry Building and the addition of a \$27 million replacement wing. The department will also benefit from a number of ongoing initiatives in the College, including the establishment of a Center for Biomolecular Structure and Organization and of the Joint Institute for Food Safety and Applied Nutrition, a partnership between the University of Maryland and the Food and Drug Administration.

Applications should be received by January 9, 1998, to receive full consideration, but the search will continue until the position is filled. Materials, including a letter of application, curriculum vitae, and the names and addresses of four references, should be directed to: **Dr. Albert Ades, Chair, Chemistry and Biochemistry Search Committee, College of Life Sciences, 1118 Symons Hall, The University of Maryland, College Park, MD 20742.**

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

FACULTY POSITIONS MOLECULAR GENETICS AND MICROBIOLOGY University of New Mexico School of Medicine

The Department of Molecular Genetics and Microbiology at the University of New Mexico School of Medicine invites applications for two tenure-track faculty positions at the **ASSISTANT/ASSOCIATE PROFESSOR** levels. Candidates must have a Ph.D. or equivalent degree and evidence of research productivity (publications, postdoctoral experience, and/or external funding). For both positions, teaching experience, external funding, and the potential to participate in collaborative research within the department are desired (for department research interest see website: <http://som.unm.edu/index.html/micro/micro.html>). For the first position, research experience in molecular genetic and biochemical approaches to fundamental cellular function is desired, including gene regulation, and DNA/RNA dynamics (replication, recombination, mutagenesis, repair and splicing). For the second position, research experience in host-pathogen interactions is desired, including innate and acquired defense mechanisms, cell biology of microbial invasion, and genetic regulation of host susceptibility/resistance to infection. The applicant will be expected to develop a vigorous, externally funded research program and to participate in teaching of medical and graduate students. Interested individuals should submit a letter of application including a two- to three-page description of research interests, plans and support, curriculum vitae, and the names of three references. For best consideration, applications must be received by December 1, 1997. Salary and rank will be commensurate with experience. Send applications to: **Molecular Genetics Search Committee or Host-Pathogen Search Committee, c/o Dolores Tarin, Department of Molecular Genetics and Microbiology, University of New Mexico, School of Medicine, Albuquerque, NM 87131.** *UNM is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION MOLECULAR GENETICS OF CANCER THE OHIO STATE UNIVERSITY

The Department of Molecular Genetics and the Division of Human Cancer Genetics in the Comprehensive Cancer Center at The Ohio State University are initiating a search for two tenure-track faculty members at the **ASSISTANT or ASSOCIATE PROFESSOR** level. We are interested in applicants who are using molecular, genetic, and/or population genetic approaches to study important problems relevant to cancer, including cancer predisposition. A highly competitive recruiting package is available, which includes an attractive salary, newly renovated laboratory space, and substantial funds for equipment and initial operating expenses. The Ohio State University is undergoing a major expansion in the field of human cancer genetics (under the leadership of **Dr. Albert de la Chapelle**) and the molecular life sciences which will involve the hiring of more than 30 new faculty over the next few years. The Ohio State University is the flagship institution of the state's higher education system. The campus includes the College of Biological Sciences, the College of Medicine and Public Health, and other colleges in the health sciences. The University is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.5 million people. Columbus has been ranked by Newsweek as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, and a statement of the nature of the planned independent research program. Applicants should also arrange to have at least three recommendation letters sent to the department. Applications will be accepted until suitable candidates are hired. Information about the University, the Department of Molecular Genetics and the Division of Human Cancer Genetics in the Comprehensive Cancer Center can be obtained by contacting the OSU website: <http://www.osu.edu>. Application materials should be sent to: **Cancer Search Committee, Department of Molecular Genetics, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210.**

OSU is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION UCLA INTEGRATIVE NEUROSCIENCE

The Departments of Neurobiology and Psychology seek applicants for a joint tenure-track position at the **ASSISTANT PROFESSOR** level in integrative neuroscience. We particularly invite applicants working in the area of cortical visual processing, but will consider all outstanding applicants whose work bridges significantly between neurophysiological and behavioral levels of analysis.

The appointee should be prepared to teach at the undergraduate, graduate, and/or medical school levels. Ph.D. and/or M.D. and postdoctoral experience are required. For all positions, submit a curriculum vitae (include telephone, FAX, and e-mail), two (2) copies of reprints and preprints, and a statement of research interests and professional goals. Also arrange for three letters of recommendation to be sent. The application deadline is 15 December 1997. Send application materials to: **Integrative Neuroscience Search, Department of Psychology, Box 951563, UCLA, Los Angeles, CA 90095-1563.** *The University of California is an Equal Opportunity Employer.*

ENDOWED PROFESSORSHIP IN PLANT MOLECULAR GENETICS

The Department of Botany at The University of Texas at Austin seeks an internationally recognized scientist currently of Associate or Professorial rank to hold the D. J. Sibley Endowed Professorship in Plant Molecular Genetics. Applicants should have an established, active research program in the broadly defined field of plant molecular biology. This recruitment is part of a university-wide initiative to expand research programs in molecular biology. Applicants should send curriculum vitae, statement of research and teaching interests, and the names and addresses of three references to: **Dr. Stan Roux, Search Committee, Department of Botany, University of Texas, Austin, TX 78713. E-mail: sroux@uts.cc.utexas.edu.** Consideration of applicants will begin November 24, 1997, and continue until a suitable candidate is selected. *The University of Texas, Austin is an Affirmative Action/Equal Opportunity Employer.*

SIBIA NEUROSCIENCES, INC., has established an impressive record in the development of innovative technologies integral to neuroscience research and drug discovery. We are seeking experienced Scientists in several areas of investigation to support our efforts to identify and develop the neuropharmaceuticals of the future.

**PLEASE VISIT OUR BOOTH AT
THE SOCIETY FOR NEUROSCIENCE
MEETING, OCTOBER 26-29
IN NEW ORLEANS.**

NEUROPHARMACOLOGY

BS/MS with 2-3 years training in neuropharmacology with emphasis on rodent experimentation involving on-line micro-dialysis using HPLC techniques and stereotaxic surgery.

BEHAVIORAL PHARMACOLOGY (COGNITION)

Ph.D. with at least 2 years experience with models of cognition. Position entails the evaluation of novel compounds in rodent models of attention and learning/memory for treatment of cognitive disorders, and the identification and development of *in vivo* models to support novel therapeutic targets. Expertise in operant behavior and stereotaxic surgery is essential.

PHARMACOLOGY (PAIN)

Ph.D. with a minimum of 2 years' experience in acute and chronic pain models. Primary responsibility is the evaluation of novel compounds in models of analgesia. Experience with chronic constriction injury and spinal nerve lesion required, as is knowledge of the cellular mechanisms underlying pain.

SAFETY PHARMACOLOGY

Ph.D. with 2+ years' experience performing safety pharmacology in rodents and interpreting experimental data. Experience performing surgical procedures, including cannulation, is desirable.

MOLECULAR BIOLOGY

Ph.D. with 2-3 years post-doctoral and at least 2 years relevant research experience in an academic or industrial setting. Must have experience with identification, cloning, and expression of CNS receptor and ion channels, as well as with *in situ* hybridization and immunohistochemical mapping techniques in the nervous system. Knowledge of transgenic and knock-out mice desirable.

SYNTHETIC CHEMISTRY

BS/MS with at least 2 years synthetic chemistry experience. A solid working knowledge of NMR, chromatography, and MS is required, as is the ability to synthesize, purify, and characterize organic compounds by modern methods.

Located on San Diego's beautiful La Jolla coastline, SIBIA Neurosciences offers not only a challenging environment in an aesthetically pleasing setting, but also a competitive salary and benefits package. Send your C.V. with the names of 3 references to: Lynn Alba, SIBIA Neurosciences, Inc., 505 Coast Blvd., South, Suite 300, La Jolla, CA 92037; phone (619) 452-5892; fax (619) 452-9279; email lalba@sibia.com; Web site www.sibia.com. EOE.

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WORLD LEADERSHIP IN PHARMACEUTICALS



Hoechst Marion Roussel, a world leader in pharmaceutical-based healthcare, is dedicated to extending and enhancing human life through discovery, development and manufacture of innovative products. Additional dedicated resources have created the following opportunities within our expanding Oncology Disease Group at our U.S. Strategic Research Center in Bridgewater, NJ:

Sr. Signal Transduction Scientist

We are seeking a group leader within our Oncology Disease Group for originating Signal Transduction research projects and overseeing the daily performance of the people working on these projects.

Requirements:

- Ph.D. in Cell Biology, Molecular Biology, Biochemistry or recognized equivalent
- Minimum 4 years pharmaceutical industry experience (beyond post-doc), including managerial and supervisory background
- Experience in either signal transduction targets such as AP-1, JUN, FOS, MAPK pathways, transcription factors or retinoblastoma protein, p53, and other cell cycle targets
- Significant record of scientific publication
- Excellent written and verbal communication skills

Sr. Tumor Research Biologist

We are seeking a group leader for our Tumor Biology Group. This individual will be responsible for, in collaboration with the Head of Disease Group Oncology, determining the strategy for efficient drug testing and assessment of drug effects in tumor models.

Requirements:

- Ph.D. or DVM/Ph.D. in Pharmacology, Pathology or recognized equivalent field
- Minimum of 8 years experience (industry experience preferred) in tumor model use for drug testing, including experience with human tumor xenografts in nude and scid mice, working knowledge of and hands-on experience in tumor pathology, immunohistochemistry, and *in situ* hybridization
- Experience with *in vivo* models of angiogenesis, tumor model development, and tumor cell culture is highly desirable
- Published record of accomplishment in drug testing and development
- Excellent verbal and written communication skills

Cell/Molecular Biologists

These individuals, in collaboration with Sr. Oncology Associates, will be responsible for assisting in the design of and performing experiments in cell cycle and signal transduction research.

Requirements:

- MS (or BS with a minimum of four years experience) in Biology or recognized relevant disciplines
- Experience in molecular biology (Northern and Southern blotting, cloning, recombinant DNA techniques and functional expression), biochemical techniques (Western blotting, enzyme assays and protein electrophoresis), and/or cell biology
- Experience with baculovirus expression technology is preferred
- Specific expertise in signal transduction or cell cycle is desirable

Join a company where your individual contributions are recognized and acknowledged. These positions, located in our modern complex in a pleasant suburban setting, provide a competitive salary with a flexible benefits program, a company Performance Sharing Plan and immediate participation in 401(k) Savings and Retirement Plans. For consideration, mail your resume (suitable for scanning) with salary history/requirements, indicating position of interest, to: **Staffing Manager, D103-H, Ref# 1997BW0016, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, or e-mail: jobs@hmri.com.** For additional company information, we invite you to visit our website: www.hmri.com. An affirmative action employer M/F/D/V.

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POSITIONS OPEN

FACULTY POSITIONS STRUCTURAL BIOLOGY AND PROTEIN STRUCTURE/FUNCTION

The Biochemistry Department of North Carolina State University invites applications for two **TENURE-TRACK POSITIONS**. One position is in structural biology and can be filled at any rank. The second position is in protein structure/function and will be recruited at the Assistant Professor level. Individuals with strong research programs in other areas of biochemistry may also be considered. The new positions will complement existing areas of excellence in nucleic acid structure/function, NMR, molecular virology, and plant molecular biology. The Department is in the College of Agriculture and Life Sciences, is affiliated with the College of Physical and Mathematical Sciences, and has interactions with many scientists in the Research Triangle area. Both positions have competitive start-up packages. Qualified applicants should provide a curriculum vitae, a research statement, and a description of teaching interests. Applicants at the junior level should request three reference letters be sent directly. Senior applicants should provide names of three references. The review process will begin December 1, 1997, and continue until the positions are filled. Application material should be sent to:

Chair, Faculty Search Committee
Department of Biochemistry
Box 7622, 128 Polk Hall
North Carolina State University
Raleigh, NC 27695-7622

All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, veteran status, or disability.

TENURE-TRACK FACULTY POSITION MICROBIOLOGIST

The Department of Molecular Biology and Microbiology, University of Central Florida, invites applications for a nine-month appointment to begin August, 1998, at the **ASSISTANT/ASSOCIATE/FULL PROFESSOR** level depending on qualifications. A Ph.D. in microbiology or related fields, a strong publication record, and potential for excellence in teaching are required. Preference will be given to candidates with expertise in industrial/applied microbiology and a post-doctoral experience of three or more years. Applicants to the senior levels should be currently funded. The successful candidate is expected to develop an externally funded research program and to teach at the undergraduate and graduate levels in his/her specialty. The department is a major participant in the new Institute for Diagnostics and Drug Discovery. Salary and start-up funds are competitive and commensurate with experience and education. The appointee will enjoy ample laboratory space in a new research facility being planned. Review of candidates will begin on December 1, 1997. Qualified individuals may forward a letter of intent, curriculum vitae, a statement of research, and three letters of reference to: **Karl X. Chai, Ph.D., Search Committee, Department of Molecular Biology and Microbiology, University of Central Florida, Orlando, FL 32816-2360.** UCF is an Affirmative Action/Equal Opportunity Employer. As an agency of the State of Florida, all application materials and selection procedures are available for public review.

ANIMAL PHYSIOLOGY UNIVERSITY OF UTAH

The Department of Biology seeks applications for a tenure-track position in animal physiology at the **ASSISTANT PROFESSOR** level. We are interested in Physiologists with postdoctoral experience who work at the system and organismal levels but are also able to relate their research to broader issues in evolutionary biology. Ours is a large, integrated biology department with strength in many areas, including functional and evolutionary morphology and neuroethology. Applicants should submit their curriculum vitae, statement of research and teaching interests, copies of two or three recent publications, and should arrange to have three letters of recommendation sent to: **Animal Physiology Search Committee, Department of Biology, 257 South 1400 East, University of Utah, Salt Lake City, UT 84112.** Review of completed applications will begin December 1, 1997, and will continue until the position is filled.

The University of Utah is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

POSITIONS OPEN

VIROLOGY FACULTY POSITION DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

The University of Texas Medical Branch

The Department of Microbiology and Immunology at the University of Texas Medical Branch invites applications for a tenure-track faculty position at any academic level. The successful applicant is expected to develop, or have previously established, an innovative independent research program in virology. We are particularly interested in individuals whose research focuses on the molecular mechanisms of replication and pathogenesis of RNA viruses. We offer a competitive start-up package, modern laboratory space, and an interactive environment with excellent opportunities for productive collaborations with colleagues in the basic science and clinical departments, the Sealy Centers for Molecular Science and Structural Biology, and NIAID-funded Hepatitis C Research Center, and ACTG, and the WHO Collaborating Center for Tropical Diseases. Please send applications, including a summary of past accomplishments, future research plans, and the names, addresses, and telephone numbers of three references to:

Virology Search Committee
Department of Microbiology and Immunology
The University of Texas Medical Branch
301 University Boulevard
Galveston, TX 77555-1019

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HUMBOLDT STATE UNIVERSITY DEPARTMENT OF BIOLOGICAL SCIENCES Three Positions: Bacteriology, Population Genetics, Marine Invertebrate Zoology

TENURE-TRACK FACULTY POSITIONS starting August 1998. Bacteriology: Requires Ph.D. in biological sciences, with emphasis in microbiology. Primary responsibilities will be to teach courses in bacteriology and microbiology. Population genetics: Requires Ph.D. in biological sciences with an emphasis in population and evolutionary genetics; expertise in molecular genetics is essential. Primary responsibilities will be to teach courses in population genetics, genetics, and evolution. Marine invertebrate zoology: Requires Ph.D. in biological sciences with emphasis in marine invertebrates. Emphasis in morphology, systematics, or ecology of invertebrates preferred. Primary responsibilities will be to teach invertebrate zoology and other appropriate courses. All: Other duties will include advising undergraduates and Master's students and serving on faculty committees. Research is expected. Send résumé, three letters of recommendation, and academic transcripts to: **Bacteriology Search Committee, Population Genetics Search Committee, or Invertebrate Zoology Search Committee, Department of Biological Sciences, Humboldt State University, Arcata, CA 95521-8299; Telephone: 707-826-3245; FAX: 707-826-3201.** Completed application materials must be postmarked by January 10, 1998. *Equal Opportunity/Affirmative Action Employer. Women, persons with disabilities, and minorities are encouraged to apply.*

TWO FACULTY POSITIONS CELL AND MOLECULAR BIOLOGY

The Whitney Laboratory, a research center of the University of Florida, invites applications for two tenure-track positions at the rank of **ASSISTANT PROFESSOR**. These will be 12-month, state-funded, full-time research positions. Candidates will be expected to develop high quality, extramurally funded research programs that use marine animals as models for basic biological research. We are seeking individuals whose research will complement, but extend existing programs.

The Whitney Laboratory is a center for marine biomedical research and biotechnology, and provides an exceptional, highly interactive research environment. Areas of current research include sensory biology, developmental biology, pharmacology, and neurobiology.

Applicants should submit a complete curriculum vitae together with a statement of research interests and three letters of recommendation to: **Dr. Peter Anderson, Director, Whitney Laboratory, 9505 Ocean Shore Boulevard, St. Augustine, FL 32086.** Deadline for application: December 31, 1997.

Detailed information about the Whitney Laboratory is available at [website: http://whitney.ufl.edu](http://whitney.ufl.edu).

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

POSITIONS OPEN

ASSISTANT PROFESSORSHIPS (THREE) DEPARTMENT OF BIOLOGICAL SCIENCES ILLINOIS STATE UNIVERSITY

Three tenure-track positions are available beginning August 1998:

Biological/botanical diversity. We seek a colleague broadly trained in biological/botanical diversity. Mycology or phycology are among the specializations that we will consider. Research should complement faculty groups in cellular/molecular biology, ecology/evolutionary biology, genetics, physiology, or systematics. Technical experience in electron microscopy is highly desired. The person hired will contribute to teaching of biological diversity, plant diversity, and teach an organismal specialty course. (**Joseph E. Armstrong, Chair**).

Microbiology. We seek a colleague with research in molecular bacterial pathogenesis. Teaching will include an advanced course in microbial pathogens and contribution to undergraduate microbiology courses. (**Brian J. Wilkinson, Chair**).

Population genetics/population biology. We seek a colleague with research in experimental or theoretical population/quantitative genetics or conservation genetics. Participation in our graduate Conservation Biology Sequence expected. Teaching responsibilities will include population genetics and at least one of the following courses: conservation biology; evolutionary ecology; or biostatistics. (**Steven A. Juliano, Chair**).

Extramurally funded research programs, teaching courses at the graduate and undergraduate levels, and supervision of undergraduate, M.S., and Ph.D. student research expected. Postdoctoral experience preferred. Additional information can be found at [website: http://www.bio.ilstu.edu/search/](http://www.bio.ilstu.edu/search/).

Send curriculum vitae, statement of research/teaching interests; up to three publications; and names, addresses, telephone numbers, and e-mail addresses of three references to indicated search committee chairs at: **Department of Biological Sciences, Illinois State University, Normal, IL 61790-4120.**

Applications should be received by 10 December 1997. Minorities and women are encouraged to apply. Illinois State University is an Affirmative Action/Equal Opportunity Employer.

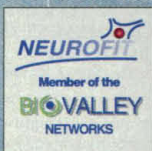
TENURE-TRACK POSITION IN HUMAN MOLECULAR GENETICS University of California, San Francisco

A tenure-track position is available in the Department of Orthopaedic Surgery and Program in Biomedical Science for an **ASSISTANT/ASSOCIATE PROFESSOR**. Outstanding candidates whose research examines the genetic, molecular, or cellular basis of human diseases affecting the musculoskeletal system will be given preference. The successful candidate will be expected to establish a vigorous, independent research program and contribute to teaching residents and medical students. Qualifications include an M.D., Ph.D., or both. Candidates with demonstrated experience in teaching and success in acquiring independent funding are especially encouraged to apply. Review of applications will begin October 15, 1997, and will continue until the position is filled. Submit a letter of application, a summary of teaching and research goals, a curriculum vitae with the names of three references and send to: **Dr. David S. Bradford, Professor and Chairman, Department of Orthopaedics, University of California, San Francisco, 500 Parnassus Avenue (MU-320W), San Francisco, CA 94143-0728 or Dr. Charles Epstein, Professor/Pediatrics and Co-Director, Program in Human Genetics, University of California, San Francisco, Box 0748, San Francisco, CA 94143-0748.** University of California, San Francisco is an Affirmative Action/Equal Opportunity Employer.

BEGINNING JANUARY 1, 1998

VISTING ASSISTANT PROFESSOR to teach human anatomy and physiology January term, human physiology laboratories spring semester 1998, and separate courses in human anatomy and human physiology, including lecture and laboratory summer 1998. Possibility of continuing through the 1998-99 school year. Ph.D. in biology and demonstrated excellence in teaching at the college level required. Send curriculum vitae, statement of teaching philosophy, and three letters of reference to: **Dr. Rob Stockhouse, Chairman A&P Search Committee, Department of Biology, Pacific University, Forest Grove, OR 97116.** Consideration of applications will begin November 3, 1997.

Preclinical research & drug discovery for neurological diseases



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POSITIONS OPEN

TWO TENURE-TRACK FACULTY POSITIONS IN THE DEPARTMENT OF ANATOMY AND NEUROBIOLOGY

Applications are invited for two tenure-track positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. These positions require a Ph.D. or M.D. degree with at least two years of postdoctoral experience. Successful candidates will be expected to establish an extramurally funded, independent research program with focus at the cellular/molecular level and foster collaborative interactions with other faculty. Areas of research currently represented in the department include circadian rhythms, pineal neuroendocrinology, influences of alcohol and aging on bone metabolism, mechanisms of fetal alcohol-induced neuronal death, developmental regulation of cell suicide/cycle, hormones and aging, spinal cord injury, mechanisms of visual processing, and comparative hematology. Candidates will also be expected to participate in teaching medical and graduate students and contribute to other departmental activities. Preference will be given to individuals with demonstrated experience in teaching either histology or gross anatomy to medical students. Please send curriculum vitae with e-mail address, statement of research interests, and the names and addresses of three references to: **David Earnest, Ph.D., Department of Human Anatomy and Medical Neurobiology, College of Medicine, Texas A&M University Health Science Center, College Station, TX 77843-1114.** The deadline for receipt of applications is January 15, 1998. *Texas A&M University is an Equal Opportunity/Affirmative Action Employer committed to diversity.*

FACULTY POSITION KANSAS STATE UNIVERSITY

The Department of Anatomy and Physiology invites applications from individuals who can teach the respiratory physiology section of a team-taught physiology course for first-year veterinary students. Candidates should have postdoctoral experience, a robust publication record, and an extramurally funded research program or have an established research program with considerable potential for securing extramural funding. Preference will be given to candidates whose research interests complement departmental programs in cardiovascular physiology, immunophysiology, or neurobiology. The position is a tenure-track faculty position (70 percent research, 30 percent teaching) at the **ASSISTANT/ASSOCIATE PROFESSOR** level; D.V.M. and/or Ph.D. required. Position available August 1, 1998.

Applications should include a curriculum vitae, a statement of research and teaching interests, addresses of three references, and reprints of three representative publications. Applications will be received until December 15, 1997, or until the position is filled. Send application to: **Dr. Jon D. Dunn, Professor and Department Head, Department of Anatomy and Physiology, College of Veterinary Medicine, VMS 228, Kansas State University, 1600 Denison Avenue, Manhattan, KS 66506-5602.** *Kansas State University is an Equal Opportunity Employer/Affirmative Action Employer.*

PROFESSOR OF GEOBIOLOGY

The Department of Earth, Atmospheric, and Planetary Sciences at MIT invites qualified candidates to apply for a new faculty position in geobiology. The level of the appointment will depend on qualifications. We seek an outstanding Biologist deeply interested in both research and teaching who has specific expertise in the interactions between organisms and geologic, hydrologic, oceanic, or atmospheric processes. Of particular interest are individuals who specialize in ecosystem dynamics or evolutionary/developmental biology. The successful candidate will be an individual who focuses on theory and quantitative analysis but who also knows in depth and uses observations. One or more of the current programs at MIT in the earth, atmospheric, hydrologic, oceanic, biological, climatic, and planetary sciences are expected to provide a significant and welcome resource to the new faculty member for interdisciplinary studies.

Interested scientists should send a curriculum vitae, a one-page description of research plans, and the names of three professional references to: **Prof. Thomas H. Jordan, Head, Department of Earth, Atmospheric, and Planetary Sciences, Massachusetts Institute of Technology, Building 54-926, Cambridge, MA 02139-4307.** E-mail: thj@mit.edu; FAX: 617-253-8298. *MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.*

POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER

Immediate opening for a **SENIOR TENURED** or a **JUNIOR TENURE-TRACK** faculty position in an interdepartmental Molecular Medicine Program. Rank will be commensurate with ability and experience. The laboratories for the Program are housed in a modern building containing 80,000 sq. ft. of research space. A wide variety of core facilities as well as 300 and 500 MHz NMR spectrometers, R-axis II X-ray data collection, and an array of computational and molecular graphics facilities are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The Program seeks an individual of outstanding research potential who is employing chemical approaches to study important biological problems. Areas of specific interest include, but not limited to, bioorganic chemistry, protein or nucleic acid chemistry, development of novel chemical probes, drug design and action, medicinal chemistry, drug-macromolecule interactions, protein-ligand interactions, and macromolecule structure.

Applicants should send a curriculum vitae, statement of research interests, and names of three references to: **Dr. Michael P. Czech, Director, Program in Molecular Medicine, University of Massachusetts Medical School, 373 Plantation Street, Worcester, MA 01605.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION. Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine at Hershey invites applications for a tenure-track faculty position at the rank of **ASSISTANT PROFESSOR** from outstanding candidates who will develop a research program of excellence in studies of the synthesis, interactions, and functional roles of oncogenes and growth factors. Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience, and a strong record of research accomplishments. Successful applicants are expected to establish an extramurally funded research program. Excellent research facilities, strong departmental and intradepartmental graduate student training programs, and macromolecular synthesis and sequencing core facilities all contribute to the productive research environment within the Department. Participation in the Department's graduate and medical student teaching programs is expected as well as participation in the Life Sciences Consortium of The Pennsylvania State University. Applicants should send their curriculum vitae, a statement of research interests, and the names of three references to: **Dr. Richard J. Courtney, Chair, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, Department 21, H107-S, 500 University Drive, Hershey, PA 17033.** *Affirmative Action/Equal Opportunity Employer.*

INSECT PHYSIOLOGIST. The Department of Entomology invites applications for a tenure-track **ASSISTANT PROFESSOR** position. The successful applicant will be expected to establish a comprehensive program on the physiology of the red imported fire ant with a goal of developing an ecologically and environmentally sound insect management system. We are looking for applicants with an established record of publication and potential for obtaining extramural funding. Teaching responsibilities will include courses in insect physiology and an area of his or her specialty. Submit letter of application, résumé, transcripts, list of publications (including selected reprints), statement of research interests and career goals, and the names of four references to: **Dr. Lane Foil, Search Committee Chair, Department of Entomology, Louisiana State University Agricultural Center, Baton Rouge, LA 70803-1710.** FAX: 504-388-1643. The closing date is December 7, 1997. *Louisiana State University Agricultural Center is an Equal Opportunity/Affirmative Action Employer.*

INSTRUCTOR POSITION, Department of Pediatrics, Pulmonary Division, Case Western Reserve University School of Medicine. This faculty position is available for a highly qualified candidate with research interest in cystic fibrosis, particularly in the area of animal models of the defense against infection of this disease. Applicants with independent funding especially favored. Please submit curriculum vitae and names of three references before December 1, 1997, to: **P. Davis, M.D., Ph.D., Pediatric Pulmonary Division, Rainbow Babies and Childrens Hospital, 11100 Euclid Avenue, Cleveland, OH 44106.** *Case Western Reserve University is an Equal Opportunity Employer and qualified minority applicants are encouraged.*

POSITIONS OPEN

California State University-Fullerton, Department of Biological Science is seeking applicants for a full-time tenure-track position as **ASSISTANT PROFESSOR OF BIOLOGY** with expertise in cellular developmental biology to begin 20 August 1998. Candidates must be committed to excellence in teaching at both the undergraduate and Master's levels and to the development of a productive research program involving students at both levels. Applicants must have a Ph.D., at least two years of postdoctoral experience, a strong background in cellular developmental biology, and an ability to teach a core course in cell and developmental biology and upper-division/Master's-level elective courses in area of expertise. Send curriculum vitae (including a history of grant support); research plans and at least three reprints; a summary of teaching philosophy (including teaching experience and elective course preferences); and three letters of recommendation to: **Cellular Developmental Biology Search, Department of Biological Science, California State University-Fullerton, P.O. Box 6850, Fullerton, CA 92834-6850.** Review of applications will begin 12 January 1998 and continue until a suitable candidate is appointed. *Affirmative Action/Equal Opportunity Employer/ADA Employer. Women and minority candidates are particularly encouraged to apply.*

FACULTY POSITION DEPARTMENT OF NEUROLOGICAL SURGERY University of California, San Francisco

The Department of Neurological Surgery invites applications for a full-time faculty member to join the Brain Tumor Research Center at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Applicants must have a Ph.D. in pharmacology, cell biology, molecular biology, or biochemistry, and have a demonstrated interest in DNA damage and repair pertaining to oncogenesis and chemotherapy resistance of brain tumors. Applicants should submit a curriculum vitae, a statement of future research plans, and the names and addresses of three references by November 14, 1997, to: **Dennis F. Deen, Ph.D., Brain Tumor Research Center, University of California, San Francisco, CA 94143-0520.** *The University of California, San Francisco is an Affirmative Action/Equal Opportunity Employer. The University undertakes Affirmative Action to assure Equal Employment Opportunity for underutilized minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.*

FACULTY POSITION FRED HUTCHINSON CANCER RESEARCH CENTER

The Fred Hutchinson Cancer Research Center is seeking a **FULL MEMBER** specializing in cell cycle, DNA repair, drug discovery, or yeast genetics. The successful candidate is expected to share the responsibility of Co-Director of The Seattle Project with **Dr. Stephen Friend** as well as maintain an independent research program. The Seattle Project is focused on developing genetic approaches both to identify new targets for cancer therapy, and to optimize current chemotherapeutic strategies. The position will have the opportunity for an affiliate appointment at the University of Washington.

Candidates should send a curriculum vitae, a concise statement of their research plans, and three letters of recommendation to:

**The Seattle Project Co-Director Search Committee
Fred Hutchinson Cancer Research Center
1124 Columbia Street
Mailstop: M477
Seattle, WA 98104**

FHCRC is an Equal Opportunity Employer committed to work force diversity.

DEPARTMENT OF CHEMISTRY FACULTY POSITION University of California-Santa Barbara

Tenure-track **ASSISTANT PROFESSOR** position, for teaching and research in organic chemistry. Ph.D. required, postdoctoral experience desirable. Strong interest in teaching, and record of research accomplishment required. Position open until filled; applications received by December 1, 1997, given preference. Forward curriculum vitae, selected reprints, brief description of research interests and plans, and arrange to have at least three letters of recommendation sent to: **Chair, Organic Search Committee, Department of Chemistry, University of California, Santa Barbara, CA 93106-9510.**

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One research field has a bigger chance of making a breakthrough.
One research company has a bigger chance of making it.

Despite rapid progress into the causes and treatments of neurological diseases, we still have a great deal to learn about the brain. Merck Sharp & Dohme (MSD) is the UK subsidiary of Merck & Co., Inc; one of the world's most successful research based pharmaceutical companies, and we are leading the way in this field.

Our purpose-built Neuroscience Research Centre is set in 29 acres of parkland on the Hertfordshire/Essex border. We are one of the company's premier research facilities and the only one dedicated to the scientific investigation of neurobiological diseases. The site features technically advanced laboratories designed to our scientists' own specifications and has excellent facilities for staff. Our multidisciplinary teams include some of the finest chemists, molecular biologists, biochemists and pharmacologists in the field.

The work we carry out here will eventually unlock more of the mysteries of the brain, enabling us to generate even better treatments for anxiety, depression, Alzheimer's disease, schizophrenia, stroke, migraine and other brain disorders. As people live longer, there is a higher incidence of these conditions and a greater demand for effective treatments to combat them.

At MSD we are confident that we are making great progress towards meeting that demand.

If you'd like to find out more about the breakthroughs we've made so far, and the job opportunities here, please write to The Personnel Department at Merck Sharp & Dohme Research Laboratories, Terlings Park, Eastwick Road, Harlow, Essex CM20 2QR, England. Please quote Ref No: SCGEN97.



MERCK SHARP & DOHME

Research Laboratories

Center for Genomics Research Functional Genomics Unit at Karolinska Institute Seeks to Identify Postdoctoral Fellows and Junior Faculty Members

In May of 1997 the most extensive university-industry collaboration in Sweden was proudly announced. At that time, Pharmacia & Upjohn agreed to support a new Center for Genomics Research at Karolinska Institute in Stockholm. This new Center has Departmental status at Karolinska Institute and has secured existing laboratory space from September of 1997. In addition to the Center itself, collaborations with leading preclinical as well as clinical research groups throughout the Karolinska Institute are currently being established.

At this time we especially encourage applications from individuals whose areas of investigation and/or interest are among the following :

- Antisense strategies
- Behavioral analyses of transgenic/"knockout" mice
- Mouse and Rat models of CNS diseases
- Drug target validation approaches
- Other model systems for functional genomics studies

Letter of interest and Curriculum Vitae may be directed to:

Dr. Claes Wahlestedt, Director
Center for Genomics Research
KAROLINSKA INSTITUTET
S-171 77 Stockholm, Sweden
Fax: + 46 8 32 39 50
e-mail: claes.wahlestedt@cgr.ki.se



**Pharmacia
& Upjohn**



POSITIONS OPEN

TWO TENURE-TRACK FACULTY POSITIONS VERTEBRATE ZOOLOGIST DEVELOPMENTAL BIOLOGIST

The Moorhead State University Biology Department invites applications for two tenure-track faculty positions at the **ASSISTANT PROFESSOR** level, to begin August 20, 1998. We seek: (1) A Vertebrate Zoologist with specialization preferably in one of the following fields: vertebrate anatomy, ornithology, or aquatic biology. Teaching responsibilities include: upper-level classes in vertebrate anatomy and the applicant's area of specialization, introductory human anatomy and physiology, a survey class in human biology for the University's liberal studies program, and laboratory sections in introductory biology. (2) A Developmental Biologist with a strong background in molecular biology. Teaching responsibilities include: upper-level classes in developmental biology and molecular biology, survey classes for the University's liberal studies program, and laboratory sections in introductory cell biology and zoology. Qualifications for both positions include a Ph.D. or equivalent, broad training in the biological sciences, and research experience in the area of specialization. Evidence of potential for excellence in undergraduate teaching is required. The successful candidate will engage in research activities that involve undergraduates. Ability to utilize computers in teaching and research is required. Visit website: <http://www.moorhead.msus.edu/~biology/> for additional information. Screening of completed applications will begin December 1, 1997, and continue until the positions are filled. Send résumé, graduate and undergraduate transcripts, statements of teaching philosophy and research interests, and three current letters of reference to: **Chair, Vertebrate Zoologist Search Committee or Chair, Developmental Biologist Search Committee, c/o Dr. Mary A. Shimabukuro, Department of Biology, Moorhead State University, Moorhead, MN 56563. E-mail: shima@mhd1.moorhead.msus.edu; FAX: 218-236-2168; Telephone: 218-287-5000.** Moorhead State University is an Equal Opportunity/Affirmative Action Educator and Employer.

Biology. Mercer University seeks a tenure-track **ASSISTANT PROFESSOR** with a Ph.D. in biological sciences, broad training in genetics or molecular biology, and promise of excellence in teaching and scholarly activity. We are interested in candidates able to contribute to general science education and/or the University's interdisciplinary studies programs. Duties will consist of teaching five courses per academic year to include introductory biology, genetics, and one or more of the following: microbiology and immunology. Research involving undergraduates is encouraged. Salary is commensurate with experience and qualifications. Send letter of application, current curriculum vitae, statements of teaching philosophy and professional interests, and arrange to have official undergraduate and graduate transcripts and three confidential letters of reference sent to: **Thomas A. Huber, Chair, Department of Biology, Mercer University, 1400 Coleman Avenue, Macon, GA 31207.** Review of applications will begin on November 24, 1997, and will continue until position is filled. Mercer University is a comprehensive institution of 6,800 students enrolled in eight colleges and schools. The historic core of the University, the College of Liberal Arts is a selective, residential institution serving nearly 1,900 students and enrolling 1,450 undergraduate majors. The University and College associate with a rich Baptist heritage with education programs distinguished by their rigor and their commitment to academic freedom. Mercer University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE POSITION available in the Infectious Diseases Division at the University of Cincinnati College of Medicine. Studies involve analysis of cellular and humoral immune responses to *Pneumocystis carinii*, including both *in vivo* and *in vitro* experiments. Minimum qualifications: Ph.D. in immunology or related field with extensive experience in immunology, at least two years of postdoctoral research experience focused on the immunological response to microbial pathogens. Experience involving lymphocyte proliferation assays, cytokine analysis, T cell clones, and cell transfer/depletion studies desired. Candidates should have experience working with small laboratory animals. Salary commensurate with qualifications/experience. Send cover letter, résumé, and name/telephone numbers of three references to: **Jane Buchanan, University of Cincinnati, P.O. Box 670560, Cincinnati, OH 45267-0560. FAX: 513-558-2089.**

POSITIONS OPEN

NEUROSCIENCE FACULTY POSITIONS UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE

The Department of Cell Biology, Neurobiology, and Anatomy at the University of Cincinnati College of Medicine invites applications for two new tenure-track positions at the rank of **ASSISTANT or ASSOCIATE PROFESSOR**. Applicants should have a Ph.D. and at least two years of postdoctoral experience. We are seeking (1) a Molecular/Cellular Neuroscientist, preferably with an interest in neuronal or glial signal transduction; and (2) an Integrative/Systems Neuroscientist with expertise in modern neuroanatomical techniques. Outstanding candidates in other areas of neuroscience are also encouraged to apply. Successful candidates are expected to develop strong, funded independent research programs and contribute to interdisciplinary medical and graduate teaching programs. Generous start-up packages and competitive salaries are available. Applicants should send curriculum vitae, a concise statement of research accomplishments and plans, and three letters of reference to:

**Michael N. Lehman, Ph.D.
Chair, Neuroscience Search Committee
University of Cincinnati College of Medicine
P.O. Box 670521
Cincinnati, OH 45267-0521
Telephone: 513-558-7628
FAX: 513-558-4343
E-mail: michael.lehman@uc.edu**
*The University of Cincinnati is an Affirmative Action/
Equal Opportunity Institution.*

ENVIRONMENTAL GEOLOGY SURFICIAL PROCESSES—GEOHYDROLOGY UNIVERSITY OF MICHIGAN

The Department of Geological Sciences has requested permission to fill a tenure-track position at the **ASSISTANT PROFESSOR** level or, in exceptional cases, at a higher level, to begin September 1998. We seek applicants with broad research interests in: the physical or chemical aspects of geohydrology; a quantitative understanding of Earth surface processes; and/or environmental geochemistry. We expect the applicant to develop a vigorous research program and to teach at both the graduate and undergraduate levels, including involvement in our new environmental geology degree program. Regular participation in introductory earth science courses is expected. A Ph.D. is required. Interested persons should send a curriculum vitae, names of five persons from whom the Department may request letters of recommendation, and brief statements of their research and teaching interests to: **Prof. Eric J. Essene, Search Committee Chair, Department of Geological Sciences, University of Michigan, Ann Arbor, MI 48109-1063. E-mail: essene@umich.edu.** Applications should be received by December 31, 1997. *The University of Michigan is an Affirmative Action/Equal Opportunity Employer.*

MICROBIAL ECOLOGIST. The University of Mississippi Department of Biology seeks an **ASSISTANT PROFESSOR** (nine-month, tenure-track) in the area of microbial ecology beginning fall 1998. Ph.D. in biology, microbiology, or ecology and record of publication in peer-reviewed journals required. University-level teaching experience desirable. Preference will be given to candidates whose research questions involve genetic techniques and approaches. Teaching duties will include freshmen biology and undergraduate and graduate courses in area of specialty and may include genetics and introductory microbiology. Development of extramurally funded research program involving graduate students and yielding high-quality publications expected. Send curriculum vitae, letter of teaching and research interests and goals, and names, telephone numbers, and mailing and e-mail addresses of three references to: **Dr. Glenn Parsons, Search Committee Chair, Department of Biology, University of Mississippi, University, MS 38677. Telephone: 601-232-7204; e-mail: bygrp@olemiss.edu.** Review of applications begins 1 December 1997 and continues until position is filled. Visit website: <http://www.olemiss.edu> for more information. *Women and minorities are particularly encouraged to apply. The University of Mississippi is an Affirmative Action/Americans with Disabilities Act/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BOTANY

Weber State University invites applications for a tenure-track, nine-month position in botany, beginning fall semester, 1998. Teaching duties include, but are not limited to, a lower-level course in fundamentals of botany and upper-level courses in plant anatomy, and morphology and reproduction of plants. Preference given to candidates who have a mycology background as well. Continuing or developing a research program involving undergraduate students is expected. A strong commitment to undergraduate teaching is required. Ph.D. required. Preference also given to candidates with teaching and postdoctoral research experience. Salary competitive and commensurate with experience. Campus and community: Weber State University is a modern 400-acre campus which serves 14,000 students. The university offers baccalaureate degrees in seven colleges and Master's degrees in education and accounting. The university is committed to supporting excellence in instruction, recognizing the central importance of students, valuing diversity, maintaining a professionally and intellectually active faculty, providing a cultural focus for the surrounding community, and offering a unique blend of professional and liberal arts educational opportunities. The university is located in Ogden, Utah, 30 miles north of Salt Lake City at the foot of the Wasatch Mountains. Ogden is part of a metropolitan area of 120,000 people and is rich in cultural and year-round outdoor recreational opportunities. Application: Send a letter of application which includes your teaching philosophy and approaches to instruction in undergraduate botany in general and plan anatomy specifically, curriculum vitae, a statement of research interests, and three letters of reference by December 15, 1997, to: **Dr. Eugene G. Bozniak, Chair, Department of Botany, c/o Human Resource Department, 1016 University Circle, Ogden, UT 84408-1016. Telephone: 801-626-6176; FAX: 801-626-7445; e-mail: ebozniak@weber.edu.** For more information contact our website: <http://www.weber.edu>. *Weber State University is an Affirmative Action/Equal Opportunity Employer.*

MICROBIOLOGY FACULTY POSITION NORTHEASTERN UNIVERSITY

The Department of Biology invites applications for a **TENURE-TRACK ASSISTANT PROFESSORSHIP**. Qualifications include a Ph.D. and postdoctoral experience. The successful candidate will be expected to develop an externally funded research program in an area that complements and supplements our current research strengths in microbiology. Additionally, the individual will be expected to participate enthusiastically in undergraduate and graduate teaching. Our website: www.dac.neu.edu/biology/ will provide information about the department.

Applicants should send a curriculum vitae, a statement of research and teaching interests, and should arrange to have at least four letters of reference forwarded independently to: **Biology Faculty Search Committee, 414 Mugar Building, Northeastern University, Boston, MA 02115.** Review of applications will begin on November 15, 1997. *Northeastern is an Equal Opportunity/Affirmative Action/Title IX University. Women and minority candidates are especially encouraged to apply.*

JOHNS HOPKINS UNIVERSITY ASSISTANT PROFESSOR MOLECULAR BIOLOGY

The Department of Biochemistry invites applications for a tenure-track faculty position at the Assistant Professor level. All applicants with research interests in eukaryotic molecular biology will be considered, but we are especially interested in individuals who intend to investigate fundamental aspects of cancer biology. Applicants should have significant research accomplishments and a strong commitment to graduate training. The successful candidate will be expected to establish a dynamic research program. Applications should include a curriculum vitae, copies of major publications, a concise statement describing research accomplishments and future research plans, and three letters of recommendation. These materials should be sent to: **Dr. Roger McMacken, Chair, Department of Biochemistry, Johns Hopkins University, School of Public Health, 615 North Wolfe Street, Baltimore, MD 21205.** The deadline for receipt of all materials is November 14, 1997. *The Johns Hopkins University actively encourages interest from women and minorities and is an Equal Opportunity/Affirmative Action Employer.*

**Breakthrough
OPPORTUNITIES**

*GeTex
Pharmaceuticals,
Inc., an emerging
pharmaceutical company
developing novel polymer
technology for therapeutic applications,
is seeking experienced professionals for the
following positions:*

**Senior Scientist
In Vivo Pharmacology**

We are seeking a scientist with a Ph.D. in the biological sciences with at least 3-5 years of experience, or an individual with an M.S. degree with 8+ years of experience in the metabolic disease area. Extensive expertise in conducting *in vivo* metabolic studies and in developing bioassay methodologies is required. A background in obesity research, lipid metabolism or digestive diseases is highly preferred. The candidate will develop appropriate animal models for our obesity program and be a key member of our interdisciplinary drug discovery effort. Please refer to job code CA001.

**Research Associate
Biochemistry**

We are seeking an individual with a BS/MS degree in biochemistry or a related area and 3 or more years' experience. This individual will be involved in the drug discovery effort for our anti-obesity program. The candidate should have experience with HPLC analyses and in performing enzyme assays. Please refer to job code CA002.

GeTex offers you the opportunity to work in an exciting environment that allows you to take part in the development of leading edge technology. For immediate consideration, please send your resume to: Human Resources, GeTex Pharmaceuticals, Inc., Nine Fourth Avenue, Waltham, MA 02154. An Equal Opportunity Employer.

GeTex
PHARMACEUTICALS, INC.

GLOBAL CAREER OPPORTUNITIES

Cooperative
Research
Centre
Molecular
Plant
Breeding



The Cooperative Research Centre for Molecular Plant Breeding is seeking new staff trained in areas of plant molecular biology, breeding, genetics, physiology or biochemistry. The CRC commenced operation on 1st July, 1997. The CRC will develop, test and implement effective strategies for the use of molecular technologies into cereal and pasture grass breeding programs. These strategies will provide the research base, tools and training for the next generation of plant breeders. The CRC is a collaborative grouping of researchers from many organisations with total resources of about \$10 million per annum. The core participants are: University of Adelaide, Southern Cross University, The South Australian Research and Development Institute, Agriculture Victoria and CIMMYT in Mexico. Further information about the CRC is available from the Director, Dr Peter Langridge, Waite Campus, University of Adelaide, Glen Osmond SA 5064, Australia; Email plangridge@waite.adelaide.edu.au

SEVEN POST-DOCTORAL POSITIONS-AUSTRALIA & MEXICO

UNIVERSITY OF ADELAIDE

POSITION NO: 31225 - Develop strategies for effective screening of cereal genotypes with respect to soil, microbes (particularly mycorrhiza) and genetic factors for improved acquisition of soil phosphorus and zinc. Experience in plant nutrition required. Further information and applications: Prof. S Smith, Email ssmith@waite.adelaide.edu.au or Prof. RD Graham, Fax +61 8 8303 7109. Applications close: 7 November 1997. Salary: A\$38,092-A\$40,899.

POSITION NO: 31255 - Assist in the coordination of the Abiotic Stress Program and provide overall supervision of molecular work directed to the development and implementation of molecular markers for nutritional efficiency and stress tolerance into the Australian cereal and pasture grass breeding programs. Experience in plant molecular genetics and plant nutrition, soil science, biochemistry, breeding or bioinformatics. Further information and applications: Prof. RD Graham, (08) 8303 7292, Email rgraham@waite.adelaide.edu.au Applications close: 14 November 1997. Salary: A\$38,092-A\$40,899.

*Applications should be addressed to Head, Department of Plant Science, Waite Campus, University of Adelaide, Private Mail Bag 1, Glen Osmond SA Australia 5064.

PLANT SCIENCES AND BIOTECHNOLOGY, LA TROBE, AGRICULTURE VICTORIA.

POSITION NO: NRE 139000 - Develop and apply molecular markers, particularly microsatellites, to pasture grass improvement. Experience in molecular genetics required. Further information: Prof. German Spangenberg, Fax +61 8 5333 6959. Email spangenberg@psb.agvic.gov.au Applications close: 30 October 1997. Salary: A\$35,306-A\$48,547.

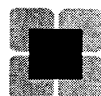
TWO POSITIONS NO: NRE 139984 AND 050938 - Identify, isolate and characterise genes for pasture grass improvement and produce transgenic germplasm. Experience in plant molecular biology, including gene isolation and analysis, plant developmental biology, biochemistry and/or biochemistry. Further information: Prof. German Spangenberg, Fax +61 8 5333 6959. Email spangenberg@psb.agvic.gov.au Applications close: 30 October 1997. Salary: A\$35,306-A\$48,547.

*Applications should be addressed to The Regional Personnel Officer, Department of Natural Resources and Environment, Level 4, Cnr Main and Doveton Sts., Ballarat, Victoria, 3350, Australia.

CIMMYT, MEXICO

TWO POSITIONS - Position 1: Develop molecular markers for various abiotic and biotic stress tolerances of wheat. **Position 2:** Develop transgenic wheat varieties with biolistic and Agrobacterium-mediated methods. Experience in plant genetics, biology, biochemistry, molecular biology/genetics/pathology and/or genetic engineering. Further information and applications: Ms Krista Baldini, CIMMYT, Lisboa 27, Apdo. Postal 6-641 06600 Mexico, D.F. MEXICO. Phone (525) 726 9091, Email rh@cimmyt.mx Applications close: 22 October 1997.

TMPA94135



THE CLEVELAND CLINIC FOUNDATION LERNER RESEARCH INSTITUTE

Chair, Department of Immunology

We are seeking a Chair for the Department of Immunology, which will occupy 20,000 sq. ft. in the new Lerner Research Institute building due for completion in the fall of 1998. The Lerner Research Institute has a commitment to excellence in basic and applied biomedical research with an annual budget in excess of \$50 million. The expansion of this department recognizes the Cleveland Clinic's traditional excellence in transplantation, tumor immunology and rheumatology, and its commitment to the study of immunologically based diseases and basic immune mechanisms. The present department consists of seven scientists with active research programs in regulation of T-cell function, cytokine signaling and monocyte/macrophage mediated inflammation. We are seeking candidates with outstanding national reputations as molecular or cellular immunologists with the vision and energy to recruit other talented scientists to build a world class department which will take advantage of the strengths of clinical programs. The Chair will be provided with generous space and start-up support, and recruitment packages for new staff.

Salary and fringe benefits are highly competitive. A curriculum vitae and names and addresses of three references should be sent to: **Bryan R. G. Williams, Ph.D., Search Committee for the Chair of Immunology, Cleveland Clinic Research Institute, NN10, 9500 Euclid Avenue, Cleveland, Ohio 44195.** On the Web - <http://www.ccf.org/ri/ccfri.html>. The search committee will receive applications through November 30, 1997. The Cleveland Clinic Foundation is an Equal Opportunity Employer.

EUROPEAN CAREER OPPORTUNITIES



University of Zurich

The Department of Zoology
invites applications for a

Research Position in Ecology

behavioral ecology, population genetics, or evolutionary biology. Our research projects aim at combining theoretical and empirical as well as ultimate and proximate approaches to the study of adaptation in vertebrates, especially amphibians and birds. Further information can be found on our home page: <http://www.unizh.ch/zool/depts/ecol/index/html>.

Applicants must possess a Ph.D.; some postdoctoral experience is advantageous. The successful candidate is expected to participate in ongoing research and teaching programs and to develop his/her own program. The position is available from January 1998 to December 1999 for a period of two years. Continuation thereafter cannot be guaranteed.

If you are interested, please send me your application with curriculum vitae, list of publications, summary of research goals, and three letters of reference until November 15, 1997.

Prof. Dr. Heinz-Urich Reyer

Zoologisches Institut der Universität Zürich

Winterthurerstrasse 190, CH-8057

Zürich, Switzerland

FAX: ++41-635 68 17, E-mail: ulireyer@zool.unizh.ch

POSITIONS OPEN

TWO TENURE-TRACK ASSISTANT PROFESSORSHIPS IN DEVELOPMENTAL BIOLOGY University of Minnesota

Two new tenure-track positions are available in the Developmental Genetics Center, headed by **Dr. Christopher Wylie**, in the University of Minnesota Medical School. All areas of research in eukaryotic developmental biology will be considered, but particular consideration will be given to those using molecular and/or genetic approaches to developmental problems. Candidates should have a Ph.D. and/or M.D. degree, at least two years of postdoctoral experience, and a proven record of high quality research (as shown by acceptance or publication of papers in quality, peer-reviewed journals). *Successful candidates must be U.S. citizens or be able to secure permanent resident status, and must provide verification of highest degrees.* Candidates will be expected to develop strong, independent research programs that lead to external funding. The ability to interact and collaborate within the various groups is strongly encouraged and multi-user facilities are available to promote such interactions. Teaching will be in the appropriate professional courses offered by the Medical School and/or graduate programs and all letters of recommendation must address both the candidate's research and teaching abilities. All faculty in the Center hold primary appointments in basic science or clinical departments within the Medical School. Starting salary will be commensurate with education and experience.

Please send a curriculum vitae, research statement, and three letters of recommendation to: **Bonita Bartholomew, University of Minnesota, Institute of Human Genetics, Developmental Genetics Search Committee, Box 206 Mayo, 420 Delaware Street S.E., Minneapolis, MN 55455-0392 USA.** The last date for receipt of applications is November 20, 1997.

The University of Minnesota is an Equal Opportunity Educator and Employer.

ASSISTANT PROFESSOR MOLECULAR BIOLOGY AND BIOCHEMISTRY

A tenure-track Assistant Professor position is now available in a vital, young, and expanding program at a dynamic university in a beautiful, metropolitan setting. Special consideration will be given to candidates with expertise in protein biochemistry, including application of physical or chemical techniques and quantification of molecular interactions; however, applicants in other research areas will also be considered. Applicants must have several years of postdoctoral experience and strong written and oral communication skills. The person hired will be expected to develop a vigorous, extramurally funded research program and to participate in graduate and undergraduate teaching. Salary, space, start-up funds, and facilities are competitive and the program is well-equipped with modern instrumentation. Review of applications will begin on November 14 and continue until the position is filled. Applicants should forward a complete curriculum vitae and research prospectus, and arrange to have three letters of recommendation sent to: **Dr. Gerald M. Carlson, Head, Division of Molecular Biology and Biochemistry, Search Committee 1, School of Biological Sciences, University of Missouri-Kansas City, 5100 Rockhill Road, Kansas City, MO 64110-2499.** *An Affirmative Action/Equal Opportunity Employer.*

TERRESTRIAL ECOLOGIST. The Ecology and Evolutionary Biology Department at Rice University is seeking to fill a tenure-track position at the level of **ASSISTANT PROFESSOR.** We are particularly interested in someone with a strong research record at the community or higher level whose research has a strong computational or statistical component, but we will consider any excellent candidate who will complement our current faculty in ecology or conservation biology. Teaching responsibilities will involve participation in introductory and advanced courses in ecology and/or conservation biology. Rice is a private research university with a strong commitment to the highest standards of education at the graduate and undergraduate level. Interested applicants should send a curriculum vitae, statements of teaching and research interests, relevant reprints, and three letters of recommendation to: **Search Committee, Department of Ecology and Evolutionary Biology, MS-170, Rice University, 6100 South Main, Houston, TX 77005** by November 1, 1997. E-mail: sandose@ruf.rice.edu. *Women and minorities are encouraged to apply. Rice University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

UNIVERSITY OF CALIFORNIA, SANTA BARBARA ASSISTANT PROFESSOR, VISION SCIENCE

The Department of Psychology invites applications for a tenure-track position in the area of vision science. For particulars see full advertisement in the current APS Observer, APA Monitor, or at **website: <http://www.psych.ucsb.edu/position/visionfac.htm>**. Deadline November 15, 1997. *Equal Opportunity/Affirmative Action Employer.*

Augustana College is seeking an **ASSISTANT PROFESSOR** in the Department of Biology as a Plant Physiologist with an active interest in ecology. This is a full-time tenure-track position. The successful applicant for this position will: teach an advanced-level course in plant function and structure, develop another course to be determined, participate with other staff members in teaching introductory biology, and provide January interim offerings. The successful applicant also will be required to direct undergraduates in publishable research and to seek extramural funding to help support that research. Among available equipment items and facilities are a VG SIRA II isotope ratio mass spectrometer with elemental analyzer, a Li-Cor LI-6200 portable photosynthesis system, a Beckman HPLC system, and two new Eonair computer-controlled ecological chambers. Start-up funds will be available. Qualifications: A Ph.D. in plant physiology and a broad understanding of plant biology and ecology are required. A strong commitment to continuing professional/scholarly growth and to the mission of a church-related, liberal arts college. Salary is competitive; dependent upon qualifications. Excellent fringe benefits. Closing date: Review of files begins on November 15, 1997. Contact person: **Dr. Lansing M. Prescott, e-mail: prescott@inst.augie.edu**. Send letter of application to include a statement of educational philosophy, current goals, curriculum vitae, high quality copies of undergraduate and graduate school transcripts (unofficial), and names and telephone numbers of three current references to: **Dean of the College, Augustana College, Box 763, Sioux Falls, SD 57197. Telephone: 605-336-5545; FAX: 605-336-4450; e-mail: rhanson@inst.augie.edu; website: <http://www.augie.edu>.** *Augustana College is an Equal Opportunity/Affirmative Action/Title IX Employer. Qualified women and minority applicants are encouraged to apply.*

ENVIRONMENTAL SCIENTIST. Austin College seeks applicants for a tenure-track **ASSISTANT PROFESSOR** position beginning August 1998. Ph.D. required. Successful candidate will have a strong background in both chemistry and biology, broad interests in interdisciplinary environmental issues, and a strong commitment to undergraduate education. Teaching will be primarily within the environmental studies curriculum with some responsibilities in college-wide programs. The candidate will be expected to develop a research program involving undergraduates. Austin College is a selective liberal arts institution. Send letter of application, curriculum vitae, graduate transcripts, three letters of reference, and one-page descriptions of teaching philosophy and research interests to: **David Jordan, Vice President for Academic Affairs, Austin College, Sherman, TX 75090-4440.** Review of applications begins November 3, 1997. Visit Austin College's **website: <http://www.austinc.edu>** for additional information. *Affirmative Action/Equal Opportunity Employer.*

GRAND VALLEY STATE UNIVERSITY invites applications for a tenure-track faculty position in biochemistry at the **ASSISTANT PROFESSOR** level to begin August 1998. A Ph.D. in biochemistry or chemistry is required, and the successful candidate must possess a strong commitment to undergraduate education, undergraduate research, and demonstrate excellence in teaching. Preference will be given to candidates with expertise in modern biotechnology or gene expression. Application review will begin November 10, 1997. Applicants should send letter of application, résumé, statement of teaching philosophy, brief summary of proposed undergraduate research projects listing instrumentation requirements, and arrange to have three confidential letters of reference mailed to: **Dr. Harvey Nikkel, Chair, Chemistry Department, Grand Valley State University, Allendale, MI 49401.** *GVSU is an Equal Employment Opportunity/Affirmative Action/Americans with Disabilities Act Employer and encourages applications from minorities and women.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGY DEVELOPMENTAL BIOLOGY AND ICHTHYOLOGY

The Biology Department at the University of New Mexico is seeking applicants for two full-time tenure-track positions at the Assistant Professor level, to begin August 15, 1998, in: (1) developmental biology; (2) ichthyology/Curator of Fishes.

Minimum Requirements: Ph.D. in biology or related discipline. Preferred characteristics: Postdoctoral experience; potential for developing an independent, vigorous research program; commitment to excellence in teaching at the undergraduate through graduate level; and ability to work in a broad-based biology department. Competitive salary and start-up funds provided.

Specific information concerning job requirements and applications can be obtained on the World Wide Web at **website: <http://biology.unm.edu/welcome.html>** or request by FAX: 505-277-0304 to:

Developmental Biology Search Committee
or

Ichthyology Search Committee
Department of Biology
University of New Mexico
Albuquerque, NM 97131-1091
Telephone: 505-277-3411
FAX: 505-277-0304

Website: <http://biology.unm.edu/welcome.html>

Completed applications must be received by December 17, 1997.

UNM is an Equal Opportunity/Affirmative Action Employer and Educator.

ASSISTANT PROFESSOR POSITIONS IMMUNOLOGY AND ANIMAL PHYSIOLOGY

The Department of Biological Sciences, Mississippi State University, invites applications for two tenure-track, nine-month Assistant Professor positions to begin 16 August 1998. Successful applicants will be expected to direct M.S. and Ph.D. students and develop strong, extramurally funded research programs. Applicants should be committed to excellence in undergraduate and graduate teaching. For the immunology position the area of research expertise is open (Search Committee Chair: **Dr. Dwayne A. Wise; e-mail: daw1@ra.msstate.edu**). For the animal physiology position all areas of research from molecular to ecological physiology will be considered (Search Committee Chair: **Dr. Walter J. Diehl; e-mail: wjdiehl@ra.msstate.edu**). Qualifications for both positions include a completed Ph.D. and a record of research productivity; teaching and postdoctoral experience are desirable. Applicants should send a curriculum vitae, selected reprints, and a concise statement of research and teaching interests and arrange to have three letters of reference sent to the appropriate search committee chair:

Department of Biological Sciences
P.O. Drawer GY
Mississippi State University
Mississippi State, MS 39762

For more information Telephone: 601-325-3120 or visit our **website: <http://www.msstate.edu/Dept/BioSciences/bio.html>**. Screening will begin 1 December 1997 and will continue until the position is filled. *Mississippi State University is an Affirmative Action/Equal Opportunity Employer.*

POPULATION BIOLOGY CLARKSON UNIVERSITY

The expanding Biology Department seeks applications for a tenure-track position as an **ASSISTANT PROFESSOR** beginning August 1998. Postdoctoral experience, publications, and evidence of grantsmanship are required. The successful candidate will teach genetics and specialty environmental courses while maintaining an active, extramurally funded research program involving undergraduates. Clarkson is a private, nondenominational, technological university with about 3,000 students; M.S. and Ph.D. degrees are offered in several science departments. The university is in a college town nestled between the Adirondacks and the St. Lawrence River and is near three other colleges. Candidates should send their curriculum vitae, statements of research interests and teaching philosophy, and names of three to five potential references to: **Dr. Michael H. Roberts, Chair, Biology Department, Clarkson University, Potsdam, NY 13699-5805.** Review of applications will begin November 1. *Clarkson University is an Equal Opportunity/Affirmative Action Employer.* Position # 46-97

NATIONAL CANCER INSTITUTE
DIVISION OF CANCER BIOLOGY

CHIEF, CANCER GENETICS BRANCH
#CA 97-2509

Opening Date: October 6, 1997 Closing Date: November 17, 1997

The Division of Cancer Biology (DCB), National Cancer Institute (NCI) is currently recruiting for a Branch Chief position which may be filled in the following series and grades: GS-401 (Biologist); 403 (Microbiologist); 440 (Geneticist); 601 (Health Science Administrator); or 1320 (Chemist) - 15. Maximum promotion potential for this position is GS-15. The announcement number is CA 97-2509.

The DCB, NCI plans, manages, coordinates and evaluates a grant and contract-supported program of extramural basic and applied research on cancer etiology, immunology, genetics and biology. The DCB, NCI, also establishes priorities and allocates resources for support of research and advises the Institute Director on opportunities and needs for extramural research in cancer etiology, biology and associated areas of science.

The Cancer Genetics Branch (CGB) plans, develops, directs and supports a national extramural program of basic research on genes that, when altered, lead to malignant transformation and tumor progression. The Chief, CGB, leads the Branch in the following activities:

- Establishing program priorities and evaluating the effectiveness of CGB programs;
- Informing and advising individual scientists and institutional science management officials on scientific opportunities, NCI program priorities, NIH and NCI funding instruments, scientific review policies and procedures, and preparing grant applications;
- Recommending funding priorities and strategies for the support of cancer genetics-related research to DCB and NCI management; and
- Planning, organizing and conducting meetings and workshops to further program objectives, identifying and evaluating new research trends, and interacting with the scientific community to facilitate advances in cancer genetics research.

Salary ranges from \$75,935 - \$98,714 per annum. Benefits: Health and life insurance options, retirement, paid holidays, vacation and sick leave. Salary includes locality pay.

BASIC QUALIFICATIONS: U.S. citizenship is required. Applicants must meet the basic experience and educational qualification requirements for U.S. government Biologist, Microbiologist, Geneticist, Health Science Administrator, or Chemist positions. In order for us to validate your qualifications, it is mandatory that you submit the following with your resume or application: A. An undergraduate and graduate transcript or a course list which includes grades and semester hours received per course for all courses; B. A current curriculum vitae; and C. A description of your proficiency in the following Knowledge, Skills or Abilities (KSAs):

1) Broad and current knowledge of genetics, developmental biology, molecular biology, or other biomedical research disciplines that are relevant to formulation of program goals in basic cancer genetics (Note, if you do not meet the minimum level of this KSA, you will not receive further consideration for the position); 2) Ability to plan, develop and implement a comprehensive scientific research program in basic cancer genetics including the formulation of program objectives, goals, and initiatives; 3) Ability to provide scientific leadership; manage scientific programs, resources, and personnel; set program priorities; and assess program effectiveness; 4) Ability to communicate clearly in writing about scientific and administrative issues; 5) Ability to communicate clearly orally about scientific and administrative issues; 6) Ability to establish and maintain effective collaborative relationships with other scientists and with institutional administrative staff.

APPLICATION PROCEDURES: The NCI recruitment bulletin for this position contains complete application procedures and lists all mandatory information which you must submit in your application. To obtain the recruiting bulletin, call 1-800-728-JOBS (for local calls, 301-594-2953). When prompted, enter the "Fax ID Number" 1899 for CA 97-2509. You will be prompted for your fax machine number. If you have any questions on qualification requirements or application procedures, or if you wish to obtain a position description or other information, please contact Mr. Kuong Tran, Personnel Management Assistant, NCI, at (301) 402-2812.

Please submit your resume, SF-171 Application for Federal Employment or OF-612 Optional Application Form by the closing date to Mr. Tran at: THE NATIONAL CANCER INSTITUTE, Personnel Management Branch, 6120 Executive Boulevard, Executive Plaza South, Room 550, Rockville, Maryland 20852. NIH is an Equal Opportunity Employer.

**Harvard Institute of
Chemistry and Cell Biology**

Institute Fellows

Three Institute Fellows are sought for the Harvard Institute of Chemistry and Cell Biology (ICCB), a new Institute based at Harvard Medical School. ICCB will lead the way in developing the new field of "chemical genetics"—a general approach to activating or inactivating protein function using small molecules. At ICCB, chemists and biologists will work collaboratively in a team-based environment to address the component parts of this problem: designing split-pool syntheses of natural-product-like molecules, creative approaches to discovering biologically interesting ligands and novel ways to identify and study their targets. Institute Fellows will be encouraged to develop independent research programs within the context of the overall goals of the Institute, and will be expected to act as team leaders for relevant Institute projects.

The successful candidates for these challenging positions will have a genuine desire to apply the techniques of chemistry to the study of biology, and will have a PhD or equivalent. We seek exceptional individuals with backgrounds in areas such as synthetic organic chemistry, cell and molecular biology and bioinformatics, who have a demonstrated ability to innovate. Experience in technologies relevant to high-throughput screening (such as imaging, robotics and fluidics) would be welcome.

Post-doctoral fellowships at the Institute are also available.

Send a CV, a brief statement of research accomplishments and goals, and the names and addresses of three referees to:

**Professors Stuart L. Schreiber
and Tim Mitchison**
Institute of Chemistry and Cell Biology
Fellowship Application
Harvard Medical School
240 Longwood Ave, C-517
Boston, MA 02115-5730

*Harvard Medical School is an Equal Opportunity/Affirmative
Action Employer*

POSITIONS OPEN

UNIVERSITY OF MASSACHUSETTS, AMHERST DEPARTMENT OF MICROBIOLOGY

Applications are invited for a tenure-track faculty position in infection and immunity to begin September, 1998. This appointment is expected to be filled at the **ASSISTANT PROFESSOR** level; however, appointment at a higher rank will be considered for highly qualified individuals.

Persons interested in microbial pathogenesis and immunology in animals are encouraged to apply. Additional interest in plant systems would be welcomed. Applicants should have strong research accomplishments, capability of establishing a vigorous, extramurally funded research program, and a serious commitment to education at the graduate and undergraduate levels. Candidates must have a Ph.D. plus at least two years of postdoctoral experience. Salary commensurate with qualifications and experience.

Please provide your curriculum vitae, a brief outline of research interests, plus recent reprints and arrange to have three letters of reference sent to: **Infection and Immunity Search Committee, Department of Microbiology, University of Massachusetts, Amherst, MA 01003-5720. E-mail: microbio-dept@microbio.umass.edu; website: <http://www.bio.umass.edu/micro>.**

Review of applications will begin on November 17, 1997, but later applications may be considered.

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

TWO TENURE-TRACK BIOLOGY POSITIONS

The Department of Biological Sciences, Union College, is seeking an **EXPERIMENTAL PLANT BIOLOGIST** and an **IMMUNOLOGIST** to fill two tenure-track positions at the **ASSISTANT PROFESSOR** level. For both positions, the applicants should have a demonstrated commitment to both research and teaching, and will be expected to teach in our introductory biology sequence and to offer one or more upper-level courses in their specialty, as well as a course for non-majors on occasion. Successful applicants will be provided with individual research laboratories and start-up money and will be expected to establish a productive research program in which undergraduates participate. The Immunologist should have a broad non-clinical background; candidates with experience in molecular parasitology or microbiology are particularly encouraged to apply. Union College is a small, selective liberal arts college with a strong tradition in the sciences; biology is its largest department, with fifteen full-time positions. Applicants should provide a curriculum vitae and a cover letter describing research interests and teaching philosophy, and ensure that at least three letters of recommendation are submitted. All materials are due by December 15 and should be sent to: **Dr. Robert Olberg, for Plant Biologist, or Dr. George Butterstein, for Immunologist, Department of Biological Sciences, Union College, Schenectady, NY 12308. Union College is an Equal Opportunity/Affirmative Action Employer.**

UNIVERSITY OF WYOMING LIMNOLOGIST/AQUATIC BIOLOGIST

The Department of Zoology and Physiology at the University of Wyoming invites applications for a tenure-track position in limnology/aquatic biology as **ASSISTANT PROFESSOR**, or **ASSOCIATE PROFESSOR** for candidates with truly exceptional records. Applicants should have a Ph.D. and preferably postdoctoral and teaching experience. We especially seek applicants that contribute to or complement faculty strengths in the biology, geochemistry, and toxicology of coldwater streams, wetlands, and hyporheic groundwater. Teaching will include introductory biology, limnology, and a graduate course in the individual's specialty. The appointee will be expected to conduct a vigorous extramurally funded research program, and to advise undergraduate, Master's, and Ph.D. students.

Review of applications will begin on 15 December 1997 and will continue until the position is filled. Applicants should send a curriculum vitae and statement of research and teaching interests, and arrange to have three letters of recommendation sent to: **Chair, Limnology/Aquatic Biology Search Committee, Department of Zoology and Physiology, University of Wyoming, Laramie, WY 82071-3166. The University of Wyoming is an Affirmative Action/Equal Opportunity Employer, and strongly encourages applications from female and minority candidates.**

POSITIONS OPEN

VERTEBRATE BEHAVIORAL ECOLOGIST ASSISTANT PROFESSOR School of Life Sciences University of Illinois at Urbana-Champaign

Candidates are invited to apply for a full-time, tenure-track position at the rank of Assistant Professor in vertebrate behavioral ecology, starting in August 1998. Preference will be given to candidates with a record of innovative research that integrates mechanistic and evolutionary analyses of behavior. Applicants must have a Ph.D. degree; postdoctoral training is desirable. Responsibilities include teaching at the undergraduate and graduate level and maintaining a creative, vigorous, and independently funded research program. The applicant is expected to contribute to integrative programs in life sciences and to participate in campus-wide initiatives in ecology and evolution. Salary will be commensurate with experience. To ensure full consideration applications should be received by November 28, 1997. Applicants should submit a curriculum vitae, statements of research and teaching interests, and the names, addresses, and telephone numbers for four referees to: **Dr. Scott K. Robinson, Chair, Behavioral Ecology Search Committee, School of Life Sciences, University of Illinois, 393 Morrill Hall, 505 South Goodwin Avenue, Urbana, IL 61801. Telephone: 217-333-3044; FAX: 217-244-1224; e-mail: scottr@mail.inhs.uiuc.edu. The University of Illinois is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are encouraged to apply.**

DEVELOPMENTAL MECHANISMS

The Department of Biology at the University of North Carolina at Chapel Hill invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR** in the area of cell and developmental biology. We particularly encourage applications from individuals using biochemical, molecular, or genetic approaches to analyze developmental mechanisms using model organisms such as *C. elegans*, *Drosophila*, *Arabidopsis*, zebrafish, or mice. In addition to establishing a vigorous research program, the successful candidate will contribute to the teaching mission of the department. The appointment will be effective July 1, 1998. Please submit a curriculum vitae, a two-page statement of research interests, a summary of teaching interests, and four letters of recommendation to: **Chairman, Faculty Search, Department of Biology, CB# 3280, Coker Hall, University of North Carolina, Chapel Hill, NC 27599-3280. Priority will be given to applications received by November 21, 1997. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.**

The Biology Department, West Chester University invites applications for a tenure-track **ASSISTANT PROFESSOR** position available August 1998. Applicants must hold a Ph.D. in botany or related field and use molecular research techniques. Teaching responsibilities include botany, general biology, and upper-level courses in his/her area of specialization. The candidate must develop an active, externally funded research program that involves undergraduate and graduate students. The successful applicant must demonstrate effective communication and teaching by presenting a research seminar during an on-campus interview. Send letter of interest, curriculum vitae, three letters of recommendation, and one copy of all university transcripts, all postmarked by December 2, 1997, to: **Dr. Sharon Began, Botanist Search Committee, Biology Department, West Chester University, West Chester, PA 19383. E-mail: sbegan@wcupa.edu. West Chester University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.**

The Biology Department of Boston University invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** in cell and molecular biology. The successful applicant will be expected to develop an externally funded research program and participate in teaching at undergraduate and graduate levels. Possible areas of research interest include development and differentiation, cell cycle, DNA repair and replication, cell-cell interactions, cell motility, and protein sorting. We have special interest in applicants whose research uses model systems such as transgenic mice, zebrafish, or *Drosophila*. Send curriculum vitae, brief description of research interests, and three letters of reference by December 1, 1997, to: **Dr. Thomas D. Gilmore, Cell and Molecular Biology Search Committee, Biology Department, Boston University, 5 Cummington Street, Boston, MA 02215. An Equal Opportunity/Affirmative Action Employer.**

POSITIONS OPEN

VIROLOGIST, ASSISTANT/ASSOCIATE PROFESSOR, tenure-track position. Applicants must have a Ph.D. degree with relevant postdoctoral experience and demonstrated research achievement. Applicants at the Assistant Professor level will be judged on their potential to develop a vigorous independent research program that can attract extramural funding. Applicants to be considered for Associate Professor must have a significant publication record and extramural funding. Candidates will also be expected to teach medical and graduate students and direct dissertation research. The position offers excellent opportunities to interact with other virologists as well as researchers at the Karmanos Cancer Institute and Center for Molecular Medicine and Genetics. An attractive start-up package will be available. Submit curriculum vitae, statement of research interests, and a list of three references to: **Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University School of Medicine, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are encouraged to apply. All buildings, structures, and vehicles at WSU are smoke-free. Wayne State University—People working together to provide quality service.**

The Department of Microbiology, Immunology, and Molecular Genetics at the Marshall University School of Medicine seeks candidates for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. Applicants should have a Ph.D., postdoctoral experience, and research interests in microbial pathogenesis using a molecular approach. The successful candidate is expected to develop an independent, externally funded research program and to participate in teaching medical microbiology to graduate and medical students. State-funded salary, start-up funds, and laboratory space with ready access to DNA/Peptide, transgenic, tissue culture, and EM core facilities will be provided. Applicants should send a curriculum vitae, a brief description of research interests and future plans (limited to 500 words), a bibliography with reprints of significant publications, and three letters of recommendation by February 1, 1998, to: **Search Committee Chair, Department of Microbiology, Immunology, and Molecular Genetics, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704-9388. Marshall University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.**

PLANT PHYSIOLOGIST

The Department of Botany at the University of Florida invites applications for a tenure-track, **ASSISTANT PROFESSOR** in plant physiology to begin in August 1998. Preference will be given to applicants with postdoctoral experience who incorporate molecular techniques in stress physiology, or a research area that complements the Department's strengths in signal transduction, photosynthesis, and plant responses to the environment. A strong commitment to both undergraduate and graduate teaching is essential. Applicants should have a curriculum vitae, brief statements of future research goals and teaching philosophy, reprints of published papers, and three letters of recommendation mailed to: **Search Committee, Department of Botany, 220 Bartram Hall, University of Florida, Gainesville, FL 32611-8526 by November 30, 1997. Website: <http://www.clas.ufl.edu/botany/>. The University of Florida is an Affirmative Action/Equal Opportunity Employer and actively seeks applications from minorities and women.**

PLANT ECOLOGY POSITION

The Department of Botany and Microbiology, University of Oklahoma is seeking a Plant Ecologist for a tenure-track **ASSISTANT PROFESSOR** position. This individual will be expected to teach and conduct research in ecosystems ecology and must have a Ph.D. in botany, ecology, or a related field. Teaching responsibilities will include undergraduate ecology and a specialty course at the graduate level. Postdoctoral experience and expertise in computational ecology, rhizosphere ecology, or GIS are particularly desired. Curriculum vitae, including statements of research and teaching interests, and three letters of reference should be sent to: **Dr. Linda Wallace, Chair Ecology Search Committee, Botany and Microbiology Department, University of Oklahoma, 770 Van Vleet Oval, Norman, OK 73019-6131. Review of applications will start February 1, 1998, and will continue until a suitable applicant is found. The University of Oklahoma is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

NATIONAL RESEARCH COUNCIL

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

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

For application materials and information on participating laboratories contact:

ASSOCIATESHIP PROGRAMS
(TJ-2114/\$4)

NATIONAL RESEARCH COUNCIL

2101 Constitution Avenue, NW
Washington, DC 20418
FAX: (202) 334-2759
EMAIL: rap@nas.edu



INTERNET:

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

INNOVATION IS OUR BUSINESS.

POST-DOCTORAL - IMMUNOLOGY AND GENOMICS

Abbott Laboratories Pharmaceutical Discovery is seeking a highly motivated post-doctoral fellow to apply the powerful tools of genomics research toward the study of immune response. Abbott has made a strong commitment to providing cutting-edge genomics tools to its research staff. These tools provide scientists with an unprecedented view of the genes that define a cell's immunological state. The qualified candidate will have the skills, innovation and enthusiasm to apply this information toward understanding immunological problems and discovering new pharmaceutical targets. This individual will work closely with the Abbott genomics, molecular biology and immunology staff. Applicants must hold a Ph.D. in the immunological sciences and have 1-3 years of post-doctoral experience. (Code 97-LAM-2371)

At Abbott, we believe that recent advances in the insulin action field have revealed important new molecular targets that may lead to the development of novel therapeutic agents for treatment of non-insulin dependent diabetes. Our newly formed Drug Discovery Project Team will have significant interactions with key advanced technology groups at Abbott including genomics, structural biology, combinatorial chemistry and high throughput screening. Abbott's Project Team approach to drug discovery provides an exciting, highly collaborative environment that has proven to be rewarding and effective. We are currently recruiting the following scientists to join this team as:

DIABETES RESEARCH GROUP LEADER

The ideal candidate will have a Ph.D. and/or M.D. with significant experience in diabetes research (6 year post-doctoral). The qualified individual will have primary research experience and a clear publication record in the physiology/endocrinology of glucose metabolism from an integrative point of view. In addition, the candidate will possess hands-on experience with several models of insulin resistance and Type 2 diabetes, and familiarity with a variety of techniques for monitoring whole animal and tissue glucose metabolism. Experience in the pharmaceutical industry is desirable and experience managing the research activities of several people is required. It's expected that this individual will be able to provide program leadership and participate in presentation of program progress to upper management. Excellent oral and written communication skills are a must. (Code 97-LAM-3220)

ASSISTANT/ASSOCIATE BIOLOGISTS

Positions are open for qualified B.S./M.S. candidates who have at least 2 years research experience with cell biology, biochemical or molecular biology studies. Preference will be given to those who have experience directly related to insulin action, metabolism and/or diabetes research. All candidates are expected to have strong analytical skills, be self-motivated and able to communicate effectively with team members. (Code 97-LAM-2027)

Make innovation your business at Abbott Laboratories. For consideration, please send your resume with salary history to: Code (please insert from above), Dept. 0583, Bldg. AP9A, Abbott Laboratories, 100 Abbott Park Rd., Abbott Park, IL 60064. An EOE, we are as committed to employee diversity as we are to our broad range of products and services.

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Abbott Laboratories has introduced some of the most impressive innovations in health care. In fact, our Pharmaceutical Products Division is the force behind powerful health care products such as the antibiotic Biaxin and Norvir for HIV/AIDS. With 54,000 employees worldwide and more than \$11 billion in annual sales, our achievements are known globally and result from efforts put forth by talented professionals like you.

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POSITIONS OPEN

MOLECULAR MINERAL NUTRITION

The University of Missouri-Columbia is seeking a tenure-track **ASSISTANT PROFESSOR** in nutritional sciences, with a Ph.D. in biochemistry, molecular biology, nutritional sciences, or related area, and with postdoctoral experience. The successful applicant will be expected to develop a nationally funded research program using molecular and biochemical techniques to study questions of broad nutritional importance in model systems at any phylogenetic level. Preference will be given to individuals focused on metal-related regulation of gene expression, metal ion transport, genetics of in-born errors of metal metabolism, or metalloprotein biochemistry. Laboratory space will be provided in newly remodeled facilities. The position, which is part of the interdisciplinary Food for the 21st Century Program, also includes support for technical staff and some teaching responsibilities. Applications will be accepted until December 1, 1997, or until the position is filled.

Send a curriculum vitae, representative publications, summary of past research and teaching accomplishments and future research plans, and arrange for three letters of reference to be sent to: **Dr. David Eide, Search Committee Chair, Nutritional Sciences Program, 217 Gwynn Hall, University of Missouri, Columbia, MO 65211.**

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

ASSISTANT PROFESSORSHIP COLORADO STATE UNIVERSITY PLANT PHYSIOLOGY

The Department of Biology at Colorado State University invites applications for a tenure-track position in plant physiology. Candidates must have a Ph.D. Postdoctoral experience and expertise in molecular biology or biochemistry are preferred. The successful candidate is expected to develop a strong research and teaching program.

To apply, send a letter stating teaching and research interests, a curriculum vitae, three research publications, addresses, and e-mail addresses of three potential referees to: **Connie Van Horn, Plant Physiologist Search Committee, Department of Biology, Colorado State University, Fort Collins, CO 80523. E-mail: connielu@lamar.colostate.edu.** All materials are due by 15 November 1997. Search may be extended if suitable candidates are not found.

Ethnic minorities and women are encouraged to apply. CSU is an Affirmative Action/Equal Opportunity Employer. Office of Equal Opportunity, 101 Student Services.

DIRECTOR

MOLECULAR BIOLOGY TRAINING FACILITY

The University of Idaho Biological Sciences Department seeks a Ph.D. to head a fully equipped laboratory for training students and faculty in a broad range of molecular techniques (DNA, RNA, and proteins). At least two years of postdoctoral experience and demonstrated skill in training others required; experience with phosphorimaging and plant/animal cell culture desirable. Potential for independent or collaborative research and grants. Send letter of application, curriculum vitae, description of research and techniques experience, and names, addresses, and telephone numbers of three references by November 15, 1997, to: **Molecular Biology Director Search, Department of Biological Sciences, University of Idaho, Moscow, ID 83844-3051. FAX: 208-885-7905.**

To enrich education through diversity, the University of Idaho is an Equal Opportunity/Affirmative Action Employer.

The Samuel Roberts Noble Foundation, Inc. is seeking a **SPECIALIST** in the area of **MOLECULAR MARKER/GENOMICS RESEARCH AND DEVELOPMENT** for their new Forage Biotechnology Group (FBG). The purpose of the Group is to develop improved forages for the southern Great Plains, and in the process, advance the science of forages. The position will be involved with development of marker-assisted selection protocols, gene discovery, and genomics research in the context of the goals of the FBG. Qualifications include a Ph.D. in an appropriate area of biology, plus additional experience in molecular marker/genomics research and technology. Salary will be commensurate with qualifications and experience. Health and retirement benefits provided. Send letter of application outlining potential research objectives, a résumé, and arrange for three letters of reference to be sent to: **ATTN: Genomics Specialist, Human Resources, The Noble Foundation, P.O. Box 2180, Ardmore, OK 73402.**

POSITIONS OPEN

EVOLUTIONARY QUANTITATIVE GENETICIST

The Department of Zoology, University of Florida, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek a theoretical or experimental quantitative geneticist to complement our strengths in ecology, evolution, and physiology. The person hired will be expected to establish a nationally recognized and externally funded research program, supervise graduate students, teach an undergraduate course in general genetics, and develop a graduate course. Please submit a curriculum vitae, recent reprints, statements of research and teaching interests, and a detailed syllabus for a general genetics course and have three letters of reference sent to: **Dr. Michael Miyamoto, Chair, Quantitative Genetics Search Committee, Department of Zoology, University of Florida, Gainesville, FL 32611-8525.** Deadline for receipt of applications is December 1, 1997. *The University of Florida is an Equal Opportunity/Affirmative Action Institution. The selection process will be conducted under the provisions of Florida's "Government in the Sunshine" and Public Records Laws.* For more information contact e-mail: genetics@zoo.ufl.edu or see website: <http://www.zoo.ufl.edu>.

The University of Wisconsin-Madison, Department of Psychology, anticipates an **ASSISTANT PROFESSOR** appointment in behavioral/cognitive neuroscience or animal behavior. Candidates who complement department interests in social, developmental, cognitive/perceptual, or affective processes are encouraged to apply. New faculty will have the opportunity to capitalize on links to Zoology, the Center for Neuroscience, the Wisconsin Regional Primate Center, and a new initiative in functional brain imaging and behavior.

Application deadline is December 1, 1997. Candidates should submit a letter of application, at least three letters of recommendation, a curriculum vitae, and selected reprints to: **Behavior/Cognitive Neuroscience or Animal Behavior Search Committee, Department of Psychology, University of Wisconsin-Madison, 1202 West Johnson Street, Madison, WI 53706-1611.** Unless confidentiality is requested in writing, information regarding applicants must be released upon request. Finalists cannot be guaranteed confidentiality. *The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer and especially encourages women and minorities to apply.*

The Department of Anatomy at the University of Mississippi Medical Center ([website: http://fiona.umsmed.edu/~anatomy](http://fiona.umsmed.edu/~anatomy)) has openings for two tenure-track faculty positions at the rank of **ASSISTANT PROFESSOR OR HIGHER**. The Medical Center is located in Jackson, the state capital, and has a major building initiative underway. Both research ability and teaching skills are highly regarded. The department is well-equipped for contemporary research. Areas of current strength include systems and cellular neuroscience, and cardiovascular cell biology. Teaching duties will be assigned in gross anatomy/embryology, histology/cell biology, or neuroscience. Applicants should send a curriculum vitae, a description of research interests and teaching qualifications, and arrange to have three letters of recommendation forwarded to: **Chair, Anatomy Department Search Committee, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505.** Completed applications must be received by January 9, 1998. *The University of Mississippi Medical Center is an Equal Opportunity Employer, Minorities/Females/Disabled/Veterans.*

WILDLIFE BIOLOGIST/ECOLOGIST. The USGS Biological Resources Division is recruiting for the **ASSISTANT UNIT LEADER-WILDLIFE** position at the South Carolina Cooperative Fish and Wildlife Research Unit at Clemson University. Candidates will be evaluated on the basis of past and potential research performance, graduate teaching skills, and ability to convert research results into management recommendations. Preference will be given to candidates with expertise in evaluation of effects of landscape-level processes on wildlife communities in important Southeastern habitats. Applications for this federal GS-12 position will be accepted between October 20 and November 17. To obtain application information, visit the OPM website: www.usajobs.opm.gov, or call the Career American Connection at Telephone: 206-553-0888 and refer to OPM Number FW7460. Specific questions may be directed to: **Dr. David Otis, Telephone: 803-656-0168; e-mail: daveo@clemson.edu.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

POLYMER SCIENCE AND ENGINEERING UNIVERSITY OF MASSACHUSETTS AMHERST

The University of Massachusetts at Amherst invites applications for two faculty positions in the Department of Polymer Science and Engineering. We anticipate that one appointment will be made at the **ASSISTANT PROFESSOR** level and the other at a tenured **ASSOCIATE** or **FULL PROFESSOR** level. Both appointments will begin as early as September 1998. Applicants in all areas of polymer science and engineering will be considered; candidates with interest and experience in materials synthesis or polymer physical chemistry are especially encouraged to apply. Applicants should send a curriculum vitae, three letters of recommendation, and statements of research and teaching interests to: **Chair, Faculty Search Committee, Department of Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003.** Interviews will commence by December 1. General information on the University of Massachusetts may be obtained from website: <http://www.umass.edu>; general information on the Polymer Science and Engineering Department may be obtained from website: <http://www.pse.umass.edu>. *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

ASSISTANT PROFESSOR NEUROBIOLOGY

Applications are invited for a tenure-track position in the Department of Biological Structure at the University of Washington School of Medicine. Applicants must hold a Ph.D. degree or the foreign equivalent, and have at least three years of postdoctoral experience. We seek a candidate who will establish a vigorous research program in neurobiology at the systems level. Candidate research interests should complement those in the department, which include neural development, and sensory system structure and function. The successful candidate will have primary responsibility for an upper-level undergraduate vertebrate neurobiology course, and will contribute to team-taught courses for health professionals and graduate students. Candidates should send a curriculum vitae, a concise description of research interests and goals, and three letters of reference by 15 January 1998, to: **Dr. Helen Sherk, Search Committee Chair, Department of Biological Structure, University of Washington, P.O. Box 35-7420, Seattle, WA 98195.** *The University of Washington is an Affirmative Action/Equal Opportunity Employer.*

REMOTE SENSING SYSTEMS SPECIALIST

The Center for Spatial Analysis and Remote Sensing at California State University, Los Angeles ([website: http://csars.calstatela.edu](http://csars.calstatela.edu)) is seeking a Remote Sensing/GIS Specialist to support interdisciplinary research, teaching, and outreach. Ph.D., plus experience with UNIX, remote sensing, image processing, GIS, and programming are required. Preferred qualifications include knowledge of ecological/environmental applications, and willingness to work with a variety of faculty and students in physical, social, and biological sciences. Position open until filled. Selection begins December 1, 1997. Anticipated starting date: January 5, 1998. Submit curriculum vitae, names and addresses of three references, statement of research interests and experience, and copies of three relevant publications to: **Dr. John Gamon, Department of Biology and Microbiology, CSULA, 5151 State University Drive, Los Angeles, CA 90032. Telephone: 213-343-2066; FAX: 213-343-6451; e-mail: jgamon@calstatela.edu.**

EPIDEMIOLOGIST

We seek an experienced Epidemiologist to work in a team of four within our Epidemiology Resources Group. The scope of duties for the position include "Best Evidence Synthesis," drug development project team work, and conducting and supervising epidemiological studies. Additionally, you'll have a consulting role to preclinical and clinical science, marketing and product development groups.

The candidate must be an M.D. (or equivalent) with a Ph.D. in epidemiology, and possess professional training and experience in clinical pharmacology, clinical trials, and drug development projects. Salary: \$73,500 to \$115,000, depending on qualifications and experience. Job Site: South San Francisco, California. Send curriculum vitae to: **V. Taylor, P.O. Box 1950, South San Francisco, CA 94083-1950.** *Equal Opportunity Employer.*

Neuroscience and Cell Biology

The University Of Medicine and Dentistry of New Jersey-Robert Wood Johnson Medical School. Tenure-track positions are available in neuroscience and cell biology at the University of Medicine and Dentistry of New Jersey (UMDNJ) - Robert Wood Johnson Medical School. Investigators with interests in molecular neurobiology, cellular neurobiology and the relationship of biology to behavior and mentation are encouraged to apply. Positions will be available beginning September, 1998. Please submit curriculum vitae, summary of scientific interests and goals, and three letters of reference to: Ira B. Black, M.D., Professor and Chairman, Department of Neuroscience and Cell Biology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. UMDNJ is an Affirmative Action/Equal Opportunity Employer.



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BARBARA ANN

KARMANOS

CANCER INSTITUTE

FACULTY POSITION

The Barbara Ann Karmanos Cancer Institute seeks outstanding basic, clinical, and translational cancer researchers for faculty positions at Wayne State University. We seek outstanding candidates at the levels of Assistant, Associate, and Full Professor, with an M.D. and/or Ph.D. degree and a strong track record of academic achievement.

Wayne State University and The Detroit Medical Center are the academic and clinical affiliates of the Barbara Ann Karmanos Cancer Institute, a unique urban-based, culturally diverse, integrated system of research, patient care, and education, dedicated to the prevention, early detection, treatment, and eventual eradication of cancer.

The Institute's strategic areas of program focus include:

- Aerodigestive cancer
- Breast Cancer
- Prostate Cancer
- Cancer genetics and molecular therapy
- Drug discovery and development
- Stem cell biology and immunotherapy
- Cancer economics, technology assessment, and innovation and development
- Cancer etiology, prevention, and outreach

The Barbara Ann Karmanos Cancer Institute sees 8,500 new cancer patients a year and has an annual operating budget of \$180 million. With more than 1,200 staff members and 3,300 volunteers, the Institute oversees cancer care at 53 facilities throughout southeastern Michigan, including hospitals, outpatient centers, and health education/patient service offices. The Institute operates one of 26 National Cancer Institute-designated comprehensive cancer centers, and one of 13 SEER registries. The Institute has set and is aggressively pursuing benchmarks that will have a major impact on the cancer incidence and survival among its patient population.

Please send letters of application accompanied by curriculum vitae and names of 3 references to:

Pamela Woods
Office of Scientific Recruitment
Barbara Ann Karmanos Cancer Institute
110 E. Warren Ave.
Detroit, MI 48201

Wayne State University School of Medicine, the country's largest single campus medical school, is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIPS (TENURE-TRACK) UNIVERSITY OF VIRGINIA

The Department of Environmental Sciences invites applications for two Assistant Professorships (tenure-track). This interdisciplinary department includes faculty in hydrology, ecology, geosciences, and atmospheric sciences. Successful candidates will be expected to develop strong teaching and research programs that capitalize on the unique interdisciplinary nature of the Department.

ATMOSPHERIC SCIENTIST. The candidate should have a background in atmospheric dynamics with interests in atmospheric processes and their linkages between various scales of motion. Examples of this include, but are not limited to, surface atmosphere interactions (continents and oceans), atmospheric circulation of water vapor, and the dynamics and effects of tropospheric aerosols and trace gases. Teaching requirements include our core atmospheric sciences course for Environmental Sciences majors, a graduate-level core course, and other undergraduate and graduate-level courses appropriate for the overall program.

ECOLOGIST. The Department seeks a candidate with a broad background in ecophysiology or community ecology and experience and interest in both process- and organism-oriented ecology. Research and teaching interests in grasslands (terrestrial or coastal) are desirable, as is a strong experimental approach to research and the ability to teach introductory statistics. Teaching requirements will include a rotation in the introductory ecology course plus courses at the graduate and undergraduate level in the candidate's specialty.

Applicants should send one-page statements on their research and teaching interests and their experience, a curriculum vitae, and the names and full addresses of three references by December 31, 1997, to:

Dr. James Galloway, Chair
Department of Environmental Sciences
University of Virginia
Charlottesville, VA 22903
<http://atlantic.evsc.virginia.edu/EVSC>.

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



Yale UNIVERSITY

Department of Molecular, Cellular, and Developmental Biology

As part of the creation of a new department of **Molecular, Cellular, and Developmental Biology (MCDB)**, we anticipate hiring faculty at the Assistant Professor level in several areas of contemporary biological research during the next few years. It is expected that the successful candidates will develop an active research group, as well as interact with current MCDB faculty and participate in interdisciplinary research and training opportunities. In addition, the successful candidates should be able to demonstrate excellence in teaching at both the undergraduate and graduate levels. While our long term goals include identifying exceptional individuals in any area of molecular, cellular, or developmental biology, we are currently soliciting applications for two positions:

Assistant Professor, Plant Molecular Biology. We are particularly interested in considering applicants whose research program deals with any area of modern plant biology, with particular emphasis on candidates who use molecular genetic techniques to address problems in plant-microbe interactions, developmental genetics or signal transduction, but candidates in any area of plant molecular biology are encouraged to apply. The department has in place state-of-the-art facilities for all aspects of plant molecular biology, and current MCDB faculty interests in plant biology include leaf and flower development, epigenetic control of gene expression, signal transduction and plant physiology.

Assistant Professor, Vertebrate Development Biology. We are particularly interested in considering applicants whose research program deals with Zebra Fish, Amphibian, Avian or Mouse Development, but other areas of experimental studies will also be considered. Development will be construed broadly and may include cell signalling, gene regulation, genomic or other relevant approaches to the analysis of development. Current faculty members are active in most aspects of the study of modern developmental biology, including neurobiology, signal transduction, mouse molecular genetics, and pattern formation.

Additional information on the Department of Molecular, Cellular and Developmental Biology and the research interests of its faculty can be found on our web site: <http://www.biology.yale.edu/>.

Please send curriculum vitae, description of research interests and the names and addresses of at least three referees by December 15, 1997 to:

Plant Molecular Biology Search Committee or Vertebrate Development Biology Search Committee
c/o Chairperson, Department of Molecular, Cellular, and Developmental Biology, Yale University,
P.O. Box 208103, New Haven, CT 06520-8103. *Yale University is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are especially urged to apply.*

PHYSIOLOGICAL PLANT ECOLOGIST

The Department of Integrative Biology seeks to fill a tenured position in the area of physiological plant ecology. Candidates should work across several levels of biological organization from the organ level to the population, community, or ecosystem. Field biology should be a significant component of their research program. Teaching responsibilities include an upper-division course in physiological plant ecology, team-teaching an ecosystem ecology course, participation in the Department's core course on organismal form and function and the development of graduate seminars in the areas of the candidate's interests.

The position is open to Ph.D. scientists and will complement the current departmental faculty of 35. The hallmark of the Department is interactive, multidisciplinary research with an evolutionary focus. The Department is housed in the recently renovated Valley Life Science Building which provides a diversity of modern core facilities and also contains the University and Jepson Herbaria, the Museum of Paleontology, and the Museum of Vertebrate Zoology. The Department also has access to the U.C.B. Botanical Garden located near campus, and the field stations of the U.C. Natural Research System scattered throughout California. Completed applications must be postmarked by December 1, 1997. The appointment commences on July 1, 1998.

A curriculum vitae, three publications, statements of teaching and research interests, and the names of three referees should be sent to: **Search Committee, Physiological Plant Ecologist, Department of Integrative Biology, 3060 VLSB #3140, University of California, Berkeley, CA 94720-3140.** The University of California is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF CHEMISTRY
FACULTY POSITIONS
WAYNE STATE UNIVERSITY

Tenure-track positions beginning August 1998. Computational chemistry: **ASSISTANT or ASSOCIATE PROFESSOR** (preferred research areas: many atom systems including organic systems, materials, or molecules of biological interest). Biochemistry: **ASSISTANT PROFESSOR** (preferred research areas: bioorganic or cross-over with other chemistry areas). Analytical chemistry: rank and availability of this position contingent upon authorization (research area: state-of-the-art materials analysis relating to automotive industry; position associated with Institute for Manufacturing Research and its Center for Automotive Materials Processing Control). All candidates should have a Ph.D. in chemistry, a commitment to undergraduate and graduate teaching, and the potential to develop an externally funded program that would lead to national recognition. Candidates should send a complete résumé and description of research plans as well as arrange for three letters of recommendation addressing both research and teaching skills. All materials should be sent to: **Prof. William Hase, Faculty Search Committee Chair, Department of Chemistry, Wayne State University, Detroit, MI 48202-3489.** Women and minority candidates are encouraged to apply. WSU is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENTIST

The Mount Holyoke College Environmental Studies Program invites applications for a tenure-track **ASSISTANT PROFESSOR** position in environmental science. Teaching responsibilities include: participation in an interdisciplinary introductory environmental studies course; development and teaching of an intermediate course in environmental science that includes biology and chemistry; and regular facilitation of the Program's capstone senior seminar. Applicants should be both trained and interested in interdisciplinary approaches. Applicants are also expected to maintain an active research program that involves undergraduates. Area of research specialty open. Affiliation with an existing disciplinary department (biology, chemistry, etc.) will be possible. A Ph.D. is required and postdoctoral research, teaching, or mentoring experience is desirable. Deadline for receipt of applications is December 31, 1997. Send curriculum vitae, statements of teaching and research interests, copies of no more than three key publications, and three letters of reference to: **Environmental Studies Search Committee, Mount Holyoke College, 115 Skinner Hall, South Hadley, MA 01075 USA.** Mount Holyoke College is committed to fostering cultural diversity and multicultural awareness in its faculty, staff, and students and is an Affirmative Action/Equal Opportunity Employer. Women and minorities are especially encouraged to apply.

UNITED STATES DEPARTMENT
OF AGRICULTURE

The Gene Evaluation and Mapping Laboratory, Beltsville Agricultural Research Center, Beltsville, Maryland is seeking a **RESEARCH ANIMAL PHYSIOLOGIST**, GS-11/12 (salary range is \$38,330 to \$59,725), to investigate nuclear transfer as a tool to genetically improve farm animals. Research will include: cell cycle synchronization; oocyte maturation, activation, and enucleation; embryo culture; establishing stable cell lines with intact chromosomes; and embryo transfer and ultrasonography to evaluate fetal development.

A degree in one of the basic animal sciences or physiology is required. Applicants must demonstrate the following knowledge, skills, and abilities: (1) knowledge of animal physiology, including studies of functions, environmental response, and biological activities and processes of the basic living organism and its component parts; (2) knowledge of methods and techniques of reproductive physiology; (3) ability to plan/conduct investigations, and present and publish results; (4) knowledge of gamete physiology and cytology; (5) skill in micromanipulation, culture, and transfer of large animal embryos; and (6) knowledge of molecular biology. U.S. Citizenship is required.

For information on the research program contact: **Ver-non Pursel, Research Leader. Telephone: 301-504-8342; e-mail: vpursel@ggpl.arsusda.gov.** Applicants must request a copy of vacancy announcement no. ARS-D8B-005, and application packet by calling **Telephone: 301-344-4638.** Applications must be postmarked by November 17, 1997. USDA/ARS is an Equal Opportunity Employer.

PHYLOGENETIC ANALYSIS
BIOLOGIST SCIENCE SUPPORT SPECIALIST

The Laboratory of Molecular Systematics (LMS) of the National Museum of Natural History (NMNH), Smithsonian Institution, seeks a highly motivated individual to provide support for phylogenetic analysis. The position is under the supervision of **Dr. David L. Swofford** and will include the following responsibilities:

Computer support and technical assistance in phylogenetic and molecular sequence analysis for other LMS and NMNH scientists.

Participation in all phases of the design, documentation, dissemination, and technical support of computer software for phylogenetic analysis developed at the LMS (primarily PAUP*).

Assists with the operation and maintenance of LMS computing facilities.

The position requires a Master's or Ph.D. degree. The successful applicant will have a thorough understanding of the principles and methods of phylogenetic analysis (both parsimony and model-based approaches) plus strong oral and written communication skills. Basic familiarity with the Macintosh, DOS/Windows, and Unix operating systems is required, with strong skills in at least two of these.

Starting salary range \$38,330 to \$45,939. For more information about the position, contact: **Dr. Matthew Kane at Telephone: 301-238-3444, ext. 108; e-mail: kane@onyx.si.edu.** For application information, call our 24-hour automated request center **Telephone: 202-287-3102, press 9,** and request Vacancy Announcement No. 97MW-1147 and a full application package. Applications must be postmarked by November 12. An Equal Opportunity Employer.

The Biology Department of Wheaton College seeks a **DEVELOPMENTAL BIOLOGIST** with some expertise in neurobiology to teach intermediate- and advanced-level undergraduate courses as well as some introductory biology. The person will be expected to maintain an active research program involving undergraduate students. The position is tenure-track and some start-up funding is available.

Candidates should submit a curriculum vitae, letter of interest describing their commitment to undergraduate teaching, and the names of three references including the addresses, telephone numbers, FAX numbers, and e-mail addresses to: **Professor John Kricher, Biology Department, Wheaton College, Norton, MA 02766.**

Application deadline is 12 December 1997.

Aquatic chemistry/low temperature geochemistry. The Large Lakes Observatory (LLO) and the Department of Chemistry at the University of Minnesota, Duluth Campus, invite applications for a nine-month salaried tenure-track **ASSISTANT or ASSOCIATE PROFESSOR** in chemical limnology. Candidates should have a strong background in chemistry, and must hold a Ph.D. (or equivalent) in chemical oceanography, limnology, or a closely related field. The successful candidate will be expected to establish a field-oriented research program on chemical processes in large lakes and to teach at the undergraduate and graduate level. The position is divided between the LLO and the Department of Chemistry, where the tenure line will reside. The teaching load will be commensurate with the departmental portion of the appointment.

Send a statement of research and teaching interests, curriculum vitae, and the names, addresses, and telephone numbers of at least three references to: **Dr. Erik Brown, Large Lakes Observatory, RLB 107, University of Minnesota, Duluth, MN 55812.** Applications should be postmarked by 25 November 1997. Prospective candidates with questions regarding this position may contact **Erik Brown** by e-mail: etbrown@d.umn.edu and are encouraged to visit our websites: www.d.umn.edu/cse/llo.html and www.d.umn.edu/csea/chem.html.

The University of Minnesota is an Equal Opportunity Educator and Employer.

PHYSICAL BIOCHEMIST

The Department of Biological Sciences at Louisiana State University, Baton Rouge, invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level available August 16, 1998. Preference will be given to applicants using physical methods to study membrane proteins, protein-protein interactions, or protein-nucleic acid interactions. A Ph.D. or equivalent degree and postdoctoral experience in physical biochemistry or related field are required. The successful candidate will be expected to maintain a vigorous, extramurally funded research program and to contribute to teaching appropriate courses in the undergraduate or graduate curriculum.

Applicants should send curriculum vitae, including statements of research and teaching interest, and should arrange to have three letters of recommendation sent to: **Physical Biochemistry Search, c/o Dr. Sue Bartlett, 508 Life Sciences Building, Louisiana State University, Baton Rouge, LA 70803.** Review of applications will begin November 17, 1997, and will continue until position is filled. Inquiries may be sent by e-mail: sbartle@unix1.sncc.lsu.edu.

Louisiana State University is an Equal Opportunity Employer.

NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTE ON ALCOHOL ABUSE
AND ALCOHOLISMLaboratory of Membrane Biochemistry
and Biophysics

Seeking a **POSTDOCTORAL FELLOW** to work on the effect of polyunsaturated lipids and ethanol on signal transduction mechanisms in the neuronal system leading to cell proliferation, differentiation, and apoptosis, in conjunction with biochemical characterization of membrane lipid enrichment processes. Candidates must have training in signal transduction/cell biology with lipid biochemistry background and less than five years of postdoctoral training. Submit curriculum vitae, statement of research interests, and three letters of references by November 7 to: **Kathleen Hanrathy, NIAAA Personnel, NIH 31/1B58, 31 Center Drive MSC 2088, Bethesda, MD 20892-2088.** For further information: **Telephone: 301-402-8746; FAX: 301-594-0035.**

MICROBIOLOGIST. A tenure-track position will be available August 1, 1998. Teaching duties include participation in the introductory biology sequence, an upper-level course in microbiology, a seminar in microbiology or a related discipline, and directing student research projects. While this is primarily a teaching position, development of an active research program involving undergraduates is expected. Excellent research and teaching facilities are available, as are start-up funds. We seek an individual with demonstrated excellence in teaching and research, and a commitment to liberal arts education. Send curriculum vitae, statements of teaching and research interests, and three letters of reference to: **Dr. Glen Wurst, Biology Department, Allegheny College, Meadville, PA 16335** by January 5, 1998. Women and minorities are strongly encouraged to apply. Allegheny is an Equal Opportunity Employer.



The Picower Institute for Medical Research

The mission of The Picower Institute for Medical Research is to apply the insights gained from basic laboratory and clinical research to the cure of disease and the improvement of human health.

FACULTY AND JUNIOR INVESTIGATORS IN MOLECULAR MEDICINE

Established in 1991, The Picower Institute for Medical Research is undergoing a substantial growth phase that will result in doubling its size. We are seeking innovative and dynamic individuals interested not only in doing research, but also having their research move to clinical application.

Successful candidates will establish creative new research groups within The Picower Institute's highly interactive and interdisciplinary "laboratory without walls" research facility. It is a unique environment where a multi-disciplinary population of well-published, collegial scientists can interact in carrying out focused research programs in molecular medicine.

Your research programs will address the pathogenesis of human disease at the molecular level, complementing existing programs and reinforcing our efforts in:

- MOLECULAR BIOLOGY
- IMMUNOLOGY • ONCOLOGY

Your research will be an integral part of our team-building approach that encourages collaboration with bio-organic chemistry, structural biology, and molecular modeling to develop novel pharmaceutical and diagnostic technologies.

The Picower Institute for Medical Research is a fully independent, medical research organization located on Long Island's historic North Shore. We operate a New York State-chartered Ph.D. program in Molecular Medicine - open to recent M.D. graduates - and also publish the international research journal, *Molecular Medicine*.

Applicants with a proven track record of "cutting edge" research are encouraged to apply for both faculty and junior investigative positions by forwarding a c.v., a list of publications and references to: Department-FES, The Picower Institute for Medical Research, 350 Community Drive, Manhasset, New York 11030, USA; Fax #: (516) 365-5090; e-mail: hr@picower.edu. We are an equal opportunity/affirmative action employer.

FACULTY POSITION DEVELOPMENTAL BIOLOGY



The Department of Biological Sciences at the University of Pittsburgh anticipates making one full-time tenure-track faculty appointment in the area of developmental biology beginning September 1998, to continue expansion of the Department. Applicants studying molecular mechanisms of animal development using a model genetic system are especially encouraged to apply. This appointment is expected to be made at the starting Assistant Professor level, but under exceptional circumstances experienced candidates with outstanding records will be considered at higher rank. The successful candidate must have a Ph.D. and extensive postdoctoral experience and will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. In order to ensure full consideration, applications must be received by December 8, 1997. Applicants should send a curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to:

Dr. Richard Carthew
Developmental Biology Search Committee
Department of Biological Sciences
University of Pittsburgh
Pittsburgh, PA 15260
(412) 648-7687

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

Pharmaceutical Scientist

The Pharmaceutical R&D Department of Merck Research Laboratories is seeking highly motivated individuals with advanced degrees in the biochemical sciences or chemical engineering, to characterize, stabilize and deliver proteins, nucleic acids and viruses in support of human vaccine development.

The successful candidate will apply analytical and physical biochemistry-based methodologies to the formulation of protein- and nucleic acid- based vaccines including novel delivery vehicles. The successful candidate will also examine the physical, chemical and immunological integrity of vaccines during formulation processing and storage. The determination of inactivation pathways will be emphasized and will be critical to the design of stable vaccine formulations for clinical use. Preferred candidates will have an M.S. degree with 5+ years of relevant research experience or a Ph.D. and 0-5 years of research experience, with demonstrated excellent academic performance.

Excellent salary and benefits accompany this position at our modern research facilities located 25 miles northwest of Philadelphia. Please send *curriculum vitae*, including overall and major GPA, with cover letter and the names of three references to: Ad # D-127, MRL Human Resources WP42-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486. Only candidates selected for interviews will receive responses. EOE, M/F/D/V.

<http://www.merck.com>



POSITIONS OPEN

EVOLUTIONARY BIOLOGIST

The Department of Ecology, Evolution, and Marine Biology at the University of California, Santa Barbara invites applications for a tenure-track or tenured position in evolutionary biology, effective July 1, 1998. Because the Department has considerable strength in microevolutionary processes, preference will be given to broadly trained applicants whose research focuses on macroevolution and/or on evolutionary theory. Areas of particular interest include the evolution of major adaptations, higher taxa, or interspecific interactions; applications of the comparative approach to significant questions regarding paleobiology or extant organisms; regulation of biodiversity over geologic time; and theoretical/mathematical approaches to broad questions in evolution. The successful applicant will be expected to continue a strong research program, teach an upper-division course in evolutionary biology, and contribute to other teaching needs. A Ph.D. is normally required by the time of appointment. Consult website: <http://lifesci.ucsb.edu/EEMB/faculty/recruitment.htm> for further information. To apply submit the following by December 15, 1997, to: Chair, Evolutionary Biology Search Committee, DEEMB, University of California, Santa Barbara, CA 93106 USA: a curriculum vitae, statements of research and of teaching interests, and three letters of reference (sent separately). An Equal Opportunity/Affirmative Action Employer.

DIRECTOR/CLINICAL ONCOLOGY RESEARCH

The University of Miami/Sylvester Comprehensive Cancer Center seeks an oncology-focused Physician or Surgeon capable of leading and expanding the reach of its clinical oncology research effort. The principal emphasis will be on increasing the bidirectional linkages between the clinic and laboratory, with the potential for enhanced peer-reviewed funding. Qualifications include a clear focus in oncology, an M.D. or M.D.-Ph.D. degree, current NIH/NCI/ACS/DOD funding, and a record of experience in directing high quality translational research efforts. Individuals with well functioning laboratories will be favored for this position, but clinical investigators with the ability to bridge between the basic and clinical sciences are welcome to apply. The appropriate individual should qualify for a tenure appointment at the Associate Professor or Full Professor level. Apart from pursuit of their own focused research programs, candidates will need to interface effectively with Cancer Center members of diverse research interests and serve as a role model and catalyst in stimulation the development of the Center's translational research programs. If you are interested, mail a copy of your curriculum vitae to: Peter A. Cassileth, Deputy Director, Sylvester Comprehensive Cancer Center, 1475 N.W. 12th Avenue (D8-4), Miami, FL 33136. Equal Opportunity Employer/Affirmative Action.

HARVARD MEDICAL SCHOOL

Two POSTDOCTORAL POSITIONS are available immediately to study neuromodulator control of adenosine in sleeping and waking, in other behavioral states, and in synaptic plasticity. We are interested in how gene regulation of the expression of proteins in a pathway that leads from cAMP to adenosine produces specific behaviors. One position requires a strong molecular biology background to clone and characterize proteins, in particular phosphodiesterases, that are involved in the pathway. The second position requires a strong slice electrophysiology and/or (ideally both) biochemistry background to characterize the functional impact of this pathway on a cellular level. Send curriculum vitae, a letter describing research background and interests, and the names of three references to: Dr. Paul Rosenberg, Children's Hospital, Enders 349, 300 Longwood Avenue, Boston, MA 02115. FAX: 1-617-730-0636. An Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR ONCOLOGY UNIVERSITY OF PITTSBURGH

Applications are invited for an individual to study genes involved in the progression pathway to human melanoma. A background in molecular biology/immunology and experience in immunohistochemistry are desirable. Interested candidates should send their curriculum vitae and the names of three references to: Dorothea Becker, Ph.D., Department of Pathology, University of Pittsburgh, BST E1050, 211 Lothrop Street, Pittsburgh, PA 15213.

POSITIONS OPEN



MWD
METROPOLITAN WATER DISTRICT
OF SOUTHERN CALIFORNIA

THE METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA RESOURCE SPECIALIST \$28.38 to \$37.28 Per Hour

To perform ecological analysis of aquatic ecosystem management and restoration scenarios.

Requires B.A. in business administration, economics, environmental science, urban planning, geology, geography, water resource management, or related field, and six years of related experience; or M.A. and four years of experience. Current opening is in Sacramento and requires degree in aquatic ecology, fisheries biology, and Federal Endangered Species Act experience. Future openings may be in Los Angeles area.

Telephone: 1-800-540-6311 (in California), or Telephone: 213-217-6453 and refer to Job Code: #97-014BS. Closes November 6, 1997. Metropolitan Water District proudly promotes Equal Opportunity and diversity.

PHYSICS DEPARTMENT LABORATORY COORDINATOR AND EQUIPMENT MANAGER/SAFETY OFFICER FOR ACADEMIC PROGRAMS Saint John's University/ College of Saint Benedict

Saint John's University/College of Saint Benedict invite applications for a 12-month administrative position as Physics Department Laboratory Coordinator (50 percent) and Safety Officer for Academic Programs (50 percent). Laboratory Coordinator responsibilities: organize introductory physics labs; track advanced labs; maintain and repair equipment, and assist faculty with lecture demonstrations. Safety Officer responsibilities: coordinate safety training for all employees in the academic departments; monitor safety practices; write and/or maintain written safety policies; monitor procurement, use, and disposal of chemicals.

Applicants must have a Bachelor's degree in physics with experience in electronics; and have a proactive interest in academic safety. A Master's degree in physics and experience in lab safety issues preferred. The colleges will provide training in safety-related areas as needed.

Saint John's University, a liberal arts college for men, and The College of Saint Benedict, a liberal arts college for women, are coordinate institutions located in central Minnesota lake country, 70 minutes northwest of Minneapolis/St. Paul.

To apply send a letter of application, résumé, academic transcripts, and three recent letters of recommendation to:

Human Resources
Saint John's University
Collegeville, MN 56321

Application review will begin November 15, 1997, and continue until the position is filled.

Women and people of diverse racial, ethnic, and cultural backgrounds are encouraged to apply. Equal Employment Opportunity/Affirmative Action Employers.

MICROBIOLOGIST/IMMUNOLOGIST. The Biology Department of Albion College anticipates a full-time, tenure-track opening in microbiology/immunology to begin in August, 1998. A Ph.D. is required, and teaching experience is preferred. The successful candidate will be expected to teach upper-level undergraduate courses in general microbiology with lab and immunology with lab. The candidate will also share responsibilities in introductory biology courses. Opportunities exist to teach environmentally related topics. A research program incorporating undergraduate students is expected. Facilities include standard molecular biology equipment (including thermal cycler, DNA sequencer apparatus, and ultra-low freezer), TEM and SEM, and a 135-acre nature center. Further information is available at website: <http://www.albion.edu/fac/biol>. Send letter of application, including teaching philosophy and research interests, current curriculum vitae, graduate and undergraduate transcripts, and three letters of reference to: Dr. Ruth E. Schmitter, Chair, Biology Department, Albion College, Albion, MI 49224. Deadline for applications is November 15, 1997. Albion College is an Equal Opportunity Employer and encourages applications from women and minority candidates.

POSITIONS OPEN

The Association of American Medical Colleges, the national organization representing U.S. medical schools, teaching hospitals, and professional academic societies, invites applications for the position of Staff Associate II and Research Associate in the Division of Biomedical Research.

STAFF ASSOCIATE II

Responsibilities: spearheading the programmatic functions and development of a constituency group concerned with Ph.D. training; undertaking studies and authoring reports on training and other issues; managing the group's electronic communications; providing senior staff liaison to other advisory bodies on biomedical research issues and to various governance councils.

Other duties: gathering, analyzing, and summarizing scientific, medical, and technical information/data from medical schools, federal agencies, and health research organizations and serving as a resource for this information; preparing responses to governmental agency regulatory initiatives; organizing the implementation of division goals/directives; establishing/monitoring new task forces or committees; and representing the Association/Division at government/nongovernment biomedical conferences and seminars.

Qualifications: Master's degree plus relevant experience in biomedical research policy; excellent writing and oral communication skills essential, some quantitative analytical skills, computer skills essential; 10 years in tracking/analyzing biomedical research issues, policies, and procedures through previous policy analysis or laboratory experience; and knowledge of federal regulatory legislative process desirable.

RESEARCH ASSOCIATE

Responsibilities: Identifies data needs and develops database design to support various research studies; assists in the development of reports including preparation of tables and text for internal and external distribution on such issues as grant funding, research training, and the impact of managed care on research; attends meetings and monitors developments related to the range of policy issues under study.

Qualifications: B.S. in biological, information, or social sciences, or related field; Master's degree highly desirable; three to five years of experience conducting quantitative analyses of health and/or biomedical policy issues; knowledge of biomedical research policy issues, such as research training, NIH grant funding, medical school financing, all highly desirable. Facility with SAS, SPSS, Access, and other statistical and database packages required. Strong oral/written communication skills.

Excellent benefits. Please send cover letter, résumé, and salary requirements to: AAMC, Senior Staff Associate—Attn: HR-263 or Research Associate—Attn: HR-246, 2450 N Street N.W., Washington, DC 20037. FAX: 202-828-1123. Equal Opportunity Employer/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in molecular biology and nucleic acid chemistry at the Laboratory for Molecular Science of the University of Southern California. Basic interdisciplinary research related to the construction of a molecular computer (L. Adelman, "Molecular computation of solutions to combinatorial problems," *Science* 266:1021-1024, November 11, 1994). Research directed by Professors Leonard Adelman and Myron Goodman. Please submit three letters of reference and curriculum vitae to: Dr. Nickolas Chelyapov, USC/Molecular Biology—ACB 530, 835 West 37th Street, Los Angeles, CA 90089-1340. E-mail: delapaz@pollux.usc.edu.

POSTDOCTORAL POSITION

Position available to study the molecular basis of T cell tolerance. Experience with germ-line gene cloning and construction of library is required. Correspondence to: H. Zaghouni, The University of Tennessee, Knoxville, Department of Microbiology, M409 Walters Life Sciences Building, Knoxville, TN 37996. E-mail: hzaghi@utk.edu. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.

POSTDOCTORAL POSITION available immediately to study the effects of hormone loss and supplementation on human cognition in aging. A background in cognitive neuroscience, hormones and behavior, aging and/or fMRI are desirable. Please send curriculum vitae and three letters of reference to: Jeri S. Janowsky, Ph.D., Department of Neurology L226, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098.

FACULTY POSITION IN PHARMACOKINETICS

The Pharmacology Laboratory, Karmanos Cancer Institute, and the Department of Pharmaceutical Sciences, College of Pharmacy & Allied Health Professions, invite applications from investigators with Ph.D., M.D., or equivalent degrees and expertise in pharmacokinetic modeling for a full-time, 0.5 FTE tenured/tenure-track faculty position at a rank commensurate with experience. The individual is expected to develop an independent, extramurally funded research program in pharmacokinetics, contribute to clinical trials of investigational agents (primarily antineoplastics), and participate in teaching and service activities of each unit. Analytical chemistry experience is an asset. Submit current curriculum vitae, description of career interests, key reprints, and complete contact information for three references to: **George B. Corcoran, Ph.D., Professor and Chair, Department of Pharmaceutical Sciences, College of Pharmacy & Allied Health Professions, Wayne State University, Detroit, MI 48202-3489 (ATTN: Pharmacokinetics Position).** Dr. Corcoran can be reached by telephone at 313-577-1737, FAX at 313-577-2033, or e-mail at corcoran@wizard.pharm.wayne.edu. Full text announcement at <http://wizard/pharm.wayne.edu/pkad.html>. *Wayne State University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. Wayne State University — People working together to provide quality service. All buildings, structures, and vehicles at WSU are smoke-free.*

Editor for Books and New Media

SCIENCE seeks a resourceful editor to help redefine our book review section. We will extend the scope of our existing book reviews of the major publications in science to include software, CD-ROM titles, and other new media. The applicant will commission and edit reviews from experts in all fields. A genuine broad interest in science necessary and a flair for editing solicited work into concise, vigorous prose preferred. In addition, the editor will occasionally write some of the shorter reviews. Applicant should have a degree in a scientific field, M.S. or Ph.D. preferred.

Please send CV to:

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Human Resources Department
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BARBARA ANN

KARMANOS

CANCER INSTITUTE

DIRECTOR

Center for Cancer Economics, Technology Assessment, and Innovation and Development

The Barbara Ann Karmanos Cancer Institute seeks a Director for its Center for Cancer Economics, Technology Assessment, and Innovation and Development (CETAID). This position carries a tenure or tenure-track faculty appointment at Wayne State University for either a senior Associate Professor or a full Professor, a competitive salary, a program endowment, and significant start-up package.

Wayne State University and The Detroit Medical Center are the academic and clinical affiliates of the Barbara Ann Karmanos Cancer Institute, a unique, urban-based, culturally diverse, integrated system of research, patient care, and education, dedicated to the prevention, early detection, treatment, and eventual eradication of cancer.

CETAID was established with joint funding support by General Motors Corporation, Chrysler Corporation, and Ford Motor Company. Its primary objective is to develop novel new approaches to understanding the economics and effectiveness of strategies for cancer prevention, diagnosis, treatment, and patient outcomes, and the impact of new technologies in patient interaction with health care providers.

The Director will oversee three interactive Institutes:

- The Institute for Cancer Economics will include such activities as lifetime costs of prevention, early diagnosis, and treatment strategies, in addition to other population-based cancer research activities;
- The Institute for Cancer Technology Assessment will assess patient care pathway alternatives, treatment optimization, and evaluation of choices of treatment variables to achieve optimum outcomes with minimal morbidity and cost, with particular emphasis on the identification of critical points;
- The Institute for Innovation and Development will apply and search for innovative technologies not being utilized in health care delivery or research, and search for and evaluate alternate strategies in all stages of the cancer care pathways.

The successful candidate will possess a doctoral degree or equivalent in one or more of the following disciplines: Medicine, Public Health, Epidemiology, or Business; and will qualify for a faculty appointment of senior Associate Professor or full Professor in the appropriate Wayne State University school or college. Candidate will have a national or international reputation reflecting comprehensive experience in health care effectiveness and/or patient/economic outcome research, and/or technological innovation, experience in database development and management; and the ability to lead the development of research programs using cancer care in Southeastern Michigan as a model. The candidate must have proven ability to organize, integrate, and lead teams of scientists and professionals with diverse training and backgrounds, and initiate or build collaborative relationships and partnerships with major industries and health care purchasers. The ability to communicate effectively and build consensus is essential. The successful applicant must demonstrate a proven track record of extramural research support, and fiscal planning and management experience.

The Barbara Ann Karmanos Cancer Institute sees 8,500 new cancer patients a year and has an annual operating budget of \$180 million. With more than 1,200 staff members and 3,300 volunteers, the Institute oversees cancer care at 53 facilities throughout southeastern Michigan, including hospitals, outpatient centers, and health education/patient service offices. The Institute operates one of 26 National Cancer Institute designated comprehensive cancer centers, and one of 13 SEER registries. The Institute has set and is aggressively pursuing benchmarks that will have a major impact on the cancer incidence and survival among its patient population.

We seek to fill this position no later than fall 1998. Please send letter of application accompanied by curriculum vitae and names of 3 references to:

John Crissman, M.D.

**Chair, Search Committee for CETAID
c/o Donna Dauphinais**

**Director, Research Administration
Barbara Ann Karmanos Cancer Institute
110 E. Warren Ave.
Detroit, MI 48201**

E-mail: dauphina@karmanos.org

Wayne State University School of Medicine, the country's largest single campus medical school, is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

EVOLUTIONARY BIOLOGY UNIVERSITY OF VIRGINIA

The Department of Biology at the University of Virginia seeks an Evolutionary Biologist doing innovative studies in the broadly defined field of evolutionary biology. The rank of the appointment is open, but we expect to hire either a person at the **ASSISTANT PROFESSOR** level with postdoctoral experience or a **MID-CAREER SCIENTIST** with the promise of continued outstanding accomplishments in research and teaching. Our department has strengths in population biology, plant science, neuroscience, development, genetics, and cell biology. Mountain Lake Biological Station is a facility of the department. We also have strong ties with the Department of Environmental Sciences and Blandy Experimental Farm. Further information about the department can be found at website: <http://minerva.accc.virginia.edu/~biology/>. The target date for receipt of applications is November 17, but the search will remain open until the position is filled. All applicants should submit a curriculum vitae, one-page statements of research and teaching interests, and contact information for three to five references to: **Henry M. Wilbur, Chair, Evolution Search Committee, Department of Biology—Gilmer Hall, University of Virginia, Charlottesville, VA 22903-2477.** The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

The Biology and Biotechnology Research Program at Lawrence Livermore National Laboratory (LLNL) is looking for a Quantum Chemist or Molecular Dynamicist with a strong interest in biomedical applications to join its new effort in computational biochemistry. Initially, the group's focus will be on crosslinked, adducted, damaged, or otherwise exotic nucleic acids, using both MD and *ab initio* QC modeling. The job will involve extensive interaction with the experimental biochemists and therefore would be best suited for candidates whose primary interests are in applying methods to novel problems, rather than exclusively in methods development. The computational group will be working in close collaboration with new X-ray crystallography and NMR structure groups, which will be an excellent opportunity for Computational Chemists with a strong interest in structural biology.

LLNL offers a challenging work environment, excellent computational resources, and a competitive salary/benefits package. For more information about this position, please e-mail **Mike Colvin** at e-mail: colvin2@llnl.gov. Interested candidates are invited to send a résumé to: **Lawrence Livermore National Laboratory, Attn: Mary Anne Holman, L-725, P.O. Box 5510, R-3135, Department AJSAA7MH, Livermore, CA 94551-5510.** LLNL is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS MOLECULAR BIOLOGY OF AXONAL GUIDANCE Rutgers, The State University

Two Postdoctoral positions are available to study the molecular mechanism of axonal guidance (*PNAS* 93: 11161-11166; *J. Neurosci.* 16:7182-7192). Study in our laboratory is directed toward the identification and analysis of growth factors and receptors which regulate the formation of axonal pathways. Candidates with experience in molecular biology and neurobiology are encouraged to send their curriculum vitae, statement of research interests, and the names of three references to: **Dr. Renping Zhou, Laboratory for Cancer Research, College of Pharmacy, Rutgers, The State University of New Jersey, 160 Frelinghuysen Road, Piscataway, NJ 08854-8020. FAX: 732-445-0687; e-mail: rzhou@rci.rutgers.edu.**

ANALYST POSITION

Scheer & Company is a dynamic, innovative firm with significant presence in all aspects of health care, including biotechnology/pharmaceutical, medical devices, diagnostics and services, as well as health care information technology. We are active in venture capital, strategy consulting, corporate partnering, and transactional advisory services. For our growing needs, we are seeking a full-time analyst with a recent Ph.D. in the biological sciences. Reply with a curriculum vitae and letter describing your interest in business and science to:

**Scheer & Company, Inc.
250 West Main Street
Branford, CT 06405
FAX: 203-481-4164**

POSITIONS OPEN

TOXICOLOGY OREGON STATE UNIVERSITY

Oregon State University (OSU) offers interdisciplinary training in toxicology through its predoctoral Toxicology Program and **POSTDOCTORAL FELLOWSHIPS**. Most financial support for graduate students in the Toxicology Program comes from research grants awarded to participating faculty members; appointment as a Graduate Research Assistant on such a grant provides waiver of tuition. The Toxicology Program is complemented by an associated National Institute of Environmental Health Sciences (NIEHS) Training Grant that offers financial support and unique research opportunities to selected predoctoral candidates and Postdoctoral Fellows. This NIEHS support is available on a competitive basis to applicants (U.S. citizens and permanent residents only) with a recent B.S., M.S., or Ph.D. degree(s) in chemistry, biochemistry, pharmacology, toxicology, or the biological sciences. Former graduates are recruited by and presently hold professional positions in government, academic institutions, and industry; others have accepted postdoctoral positions with nationally and internationally recognized scientists.

Affiliated faculty members provide challenging basic science academics while mentoring students as they develop individual research projects; this intensive course of study leads to the M.S. or Ph.D. degree in toxicology. Training is provided in diverse areas, including: analytical, aquatic, biochemical, comparative, environmental, and food toxicology with an emphasis on a mechanistic approach. Research projects focus on some aspect of toxicology or environmental health. OSU has two NIEHS-designated research centers: the Environmental Health Sciences Center and the Marine/Freshwater Biomedical Sciences Center; both centers offer state-of-the-art equipment and specialized research facilities and opportunities. NIEHS Training Grant Faculty:

Dr. William Baird—carcinogenesis, DNA adducts.
Dr. George Bailey—aquatic, biochemical, food toxicology; chemical carcinogenesis.

Dr. David Barnes—Cell culture; peptide growth factors, regulation of gene expression.

Dr. Donald Buhler—Biochemical, comparative toxicology; xenobiotic metabolism.

Dr. Bruce Gold—Neurotoxicology.

Dr. Jerry Hendricks—Aquatic, food toxicology.

Dr. Jeffrey Jenkins—Environmental analytical chemistry, pesticide risk assessment.

Dr. Nancy Kerkvliet—Immunotoxicology, risk assessment, extension toxicology.

Dr. Dennis Koop—Biochemical toxicology, xenobiotic metabolism.

Dr. Donald Reed—Biochemical and cellular toxicology; biological oxidations; drug metabolism.

Dr. Philip Whanger—Biochemical, metal toxicology; nutrition.

Dr. David Williams—Biochemical toxicology, xenobiotic metabolism.

For more information write: **Dr. David Williams, Director, NIEHS Training Grant, 9 Weigand Hall, Oregon State University, Corvallis, OR 97331. E-mail: williamd@bcc.orst.edu; Telephone: 541-737-3277; FAX: 541-737-1877.**

Oregon State University is an Affirmative Action/Equal Opportunity Employer and complies with Section 504 of the Rehabilitation Act of 1973. Minority applications are encouraged.

POSTDOCTORAL POSITION is available immediately, with NIH funding to study nanomechanical properties of dentin and other calcified tissues. A Ph.D. in material science, bioengineering, or a related field is required. Research will be performed at the University of California, San Francisco and Lawrence Livermore National Laboratories. U.S. citizenship or permanent residency is required. Please mail, FAX, or e-mail your curriculum vitae and three references to: **Dr. Sally Marshall, University of California, San Francisco, 707 Parnassus Avenue, Campus Box 0758, San Francisco, CA 94143-0758. E-mail: sallym@itsa.ucsf.edu; FAX: 415-476-0858.**

POSTDOCTORAL POSITION available immediately to study the molecular genetics involved in tumor suppression and cell cycle control. Ph.D.-M.D. with experience in molecular and cellular biology required. Send curriculum vitae and names of three references to: **Dr. Yan A. Su, Lombardi Cancer Center, Georgetown University Medical Center, Research Building, Room E308A, 3970 Reservoir Road N.W., Washington, DC 20007. Telephone: 202-687-6056; FAX: 202-687-7505; e-mail: suya@gunet.georgetown.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWS IN POPULATION BIOLOGY. The Center for Population Biology at University of California, Davis invites applications for two 1998 CPB Postdoctoral Fellowships in population biology, broadly defined to include systematics, ecology, population genetics, and evolution. The positions are for one year, with the possibility of extending to a second year, and can begin as early as February 1, 1998. The annual salary range is \$23,000 to \$25,000, depending on qualifications, plus up to \$2,500 per year for research support. The Fellows will be fully participating members in the Center for Population Biology, and are expected to have independent research programs that bridge the interests of two or more CPB laboratory groups. For more information about UCD programs in population biology, see our website: <http://www-evc.ucdavis.edu/popbio.htm>. Interested candidates should submit curriculum vitae, three letters of reference, a short (one- to two-page) description of research accomplishments, and a short (one- to two-page) description of proposed research to: **CPB Fellow Search Committee (Science), Center for Population Biology, University of California, Davis, CA 95616-8755.** Evaluation of applications will begin on November 15, 1997. The University of California is an Affirmative Action/Equal Opportunity Employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.

DNA BENDING

A two-year NIH-funded **POSTDOCTORAL POSITION** is available, starting May 1998, to investigate new methods of probing intrinsic DNA bending (see *J. Am. Chem. Soc.* 117:9099, 1995; *ibid.* 118:7028, 1996). Must have experience in PAGE of oligonucleotides. Send curriculum vitae, publication list, and names of three references (with telephone numbers and e-mail addresses) to: **Prof. C. J. Murphy, Department of Chemistry and Biochemistry, University of South Carolina, Columbia, SC 29208.** The University is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

TWO NEUROSCIENCE POSTDOCTORAL POSITIONS available in an NIH-funded Program Project to study sensory transduction in mammalian taste receptor cells (see *J. Neurosci.* 16:3817, 1996; *J. Neurophysiol.* 77:3048, 1997). Requires a strong background and experience in molecular techniques (cloning, expression, signal transduction) or in patch-clamp electrophysiology. Interviewing at Society for Neuroscience Annual Meeting or contact: **Dr. Nirupa Chaudhari** or **Dr. Stephen Roper, Department of Physiology/Biophysiology, University of Miami School of Medicine, Box 016430, Miami, FL 33101. FAX: 305-243-5931; e-mail: nchaudha@newssun.med.miami.edu or sroper@newssun.med.miami.edu.**

POSTDOCTORAL POSITION in central nervous system regeneration/plasticity available at the University of California, San Diego. Biological roles of neurotrophic factors and extracellular matrix molecules in influencing neuronal and axonal responses to injury are investigated in models of spinal cord injury. Gene therapy techniques are used extensively. Molecular biology background is essential. Send curriculum vitae and names of three references to: **M. Tuszynski, M.D., Ph.D., Department of Neurosciences—0608, University of California, San Diego, La Jolla, CA 92093.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available to study signal transduction mechanisms in platelets involving the G-proteins and phospholipase C. Background in molecular biology and cell biology is required. Please forward curriculum vitae and the name of three references to: **A. Koneti Rao, M.D., Thrombosis Research Center, OMS 300, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-2783; e-mail: koneti@astro.ocis.temple.edu.** Temple University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION (sensory irritation) available immediately to conduct *in vitro* studies of transduction mechanisms and structure/activity relationships in trigeminal ganglion neurons using digital fluorescence imaging. Completed doctorate and experience with tissue/cell culture techniques is necessary, neuronal culture is preferred. Send curriculum vitae and names of three references to: **Bruce Bryant, Ph.D., Monell Chemical Senses Center, 3500 Market Street, Philadelphia, PA 19104.**

POSTDOCTORAL FELLOW POSITIONS

(2-5 years in duration) are available in the Craniofacial and Skeletal Diseases Branch (formerly the Bone Research Branch), National Institute of Dental Research. Candidates with 2-3 years of postdoctoral experience may qualify for a Staff Fellow/Fogarty Visiting Associate position. Salary ranges from \$28,000 to \$51,000 depending on the number of years of postdoctoral experience. All candidates must be committed to performing studies on bone formation in health and disease states. The Skeletal Biology Section (**Dr. Pamela Gehron Robey**, Chief) is seeking a cell/molecular biologist with 2-3 years of postdoctoral experience to participate in ongoing studies on the characterization of bone marrow stromal cells. The Matrix Biochemistry Unit (**Dr. Larry W. Fisher**, Chief) is seeking a cell/molecular biologist to study the functions of bone matrix proteins *in vitro* and in our branch's newly established transplantation system that utilizes marrow stromal cells to regenerate bone *in vivo*. The Molecular Biology of Bones and Teeth Unit (**Dr. Marian F. Young**, Chief) is seeking a fellow to characterize the function of bone matrix proteins through the generation of transgenic animals. Interested applicants should send a curriculum vitae and names of three references to the chief of the specific program as listed above at: CSDB, NIDR, NIH, 30 Convent Dr. MSC-4320, Bethesda, MD 20892-4320.

Application materials must be postmarked and sent by the closing date of January 31st, 1998.

NIH IS AN EQUAL OPPORTUNITY
EMPLOYER.

Director McGill School of Environment

McGill University is seeking a Director for the new McGill School of Environment (MSE). The MSE is an initiative of the Faculty of Arts, the Faculty of Science, and the Faculty of Agricultural and Environmental Sciences. The mission of the MSE is to impart to students an understanding of current environmental problems; provide intellectual growth through an exciting and rigorous program of environmental study; and foster a strong link between research programs and environmental teaching. Initially, the MSE will offer a B.Sc. and a B.A. program. The undergraduate program will consist of a common core program to be developed and offered by the School, and a series of transdisciplinary areas of specialization (or domains) such as Biodiversity, Earth System Science, Environment and Development, Environmental and Resource Economics, Food Systems and Environment, and Natural Resource Conservation.

The role of the Director of the MSE is to provide vision and leadership, build bridges among Faculties and members who have a commitment to environmental teaching and research, oversee the development and implementation of the academic program, and develop strong links with external stakeholders and interested parties. The ideal candidate will be a successful and established scholar with a strong international reputation and multidisciplinary experience in environment. The successful candidate will be cross-appointed between the School and an MSE-affiliated department. Proficiency in English and French is desirable.

McGill University is committed to equity in employment. In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents.

Closing date for applications is November 15, 1997. Applications, with the names of three references, should be submitted to the **Chair, Search Committee, McGill School of Environment, Dawson Hall, Room 209, 853 Sherbrooke Street West, Montreal, Quebec, Canada H3A 2T6. Fax: (514) 398-8102. E-Mail: cairns@artsci.lan.mcgill.ca**



McGill

MDS Panlabs Biotechnology Services

MDS Panlabs, located near Seattle, provides a variety of R&D services to the pharmaceutical and biotechnology industries. Our Biotechnology Services division solves challenging problems in areas such as heterologous gene expression and metabolic pathway engineering.

Ph.D. Molecular Biologists

We are seeking strong candidates with a proven track record in technologies such as strain engineering, molecular analysis of gene expression, and elucidation of complex enzymology. Although a Ph.D. with broad experience in a molecular biology-related field is sought, any individual with a strong record of scientific achievement will be considered. Send résumé to:

MDS Panlabs
Human Resources Job #97-25
11804 North Creek Parkway South
Bothell, WA 98011
or FAX: 425-487-3787

An Equal Opportunity Employer



New York University

DENTAL SCIENTISTS

New York University College of Dentistry is seeking to recruit dentists to tenure/tenure-track positions who have both research and clinical training. Specifically, we are interested in appointing dentists who have acquired a Ph.D. in one of the traditional biomedical sciences including but not limited to Biochemistry, Cell Biology, Experimental Pathology, Immunology, Microbiology, Molecular Biology, Oral Biology, Pharmacology, Physiology, etc. A Ph.D. in one of the Material Sciences is also acceptable. Furthermore, the ideal candidate will have acquired additional research training as a postdoctoral fellow.

In addition, applicants should have advanced training in one of the following dental disciplines: Endodontics, General Dentistry, Geriatric Dentistry, Oral Medicine/Oral Pathology, Oral and Maxillofacial Surgery, Orthodontics, Pediatric Dentistry, Periodontics, Prosthodontics, or Public Health Dentistry.

New York University College of Dentistry expects to appoint up to four D.D.S.-Ph.D.'s to these newly created positions. Successful applicants are expected to establish an extramural funded productive research program and support the teaching programs of the College. Please send a letter of interest and curriculum vitae to: **Barry R. Rifkin, D.D.S., Ph.D., New York University College of Dentistry, 345 East 24th Street, 8th Fl., New York, NY 10010.**

NYU encourages applications from women and members of minority groups.

POSITIONS OPEN

POSTDOCTORAL POSITION

Dr. Alice Barkan, at the Institute of Molecular Biology, University of Oregon, has a Postdoctoral position available immediately to study the targeting of proteins to the chloroplast thylakoid membrane. The successful applicant will have the opportunity to study a unique collection of targeting mutants with a combination of biochemical and genetic methods. A background in membrane protein biochemistry is preferred. Send or e-mail a curriculum vitae, including the names, telephone numbers, and e-mail addresses of three references to: **Mary Rigby, Institute of Molecular Biology, 1229 University of Oregon, Eugene, OR 97403-1229. E-mail: mary@prospero.uoregon.edu.** The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

POSTDOCTORAL FELLOW POSITION available to conduct research in an NIH-funded laboratory in the Winship Cancer Center of Emory University. The focus of this research is on molecular mechanism(s) of anticancer drug-induced apoptosis with special emphasis on the pre-apoptotic mitochondrial events, Bcl-2 family of proteins, Fas signaling and receptor tyrosine kinase signaling. The research would involve cloning, transfection, and function analyses of genes that regulate apoptosis of human cancer cells. Send curriculum vitae and three references to: **Kapil N. Bhalla, M.D., Professor of Medicine, Division of Hematology/Oncology, Winship Cancer Center—Emory University, 1365-B Clifton Road N.E., Atlanta, GA 30322. E-mail: kbhalla@emory.edu.** Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION COLUMBIA UNIVERSITY

A highly motivated candidate is sought for position available immediately to study the structure-function relationship of antimicrobial polypeptides from human blood cells and their interaction with pathogens. Successful applicant will have a Ph.D. in relevant research area and a strong background and publications in protein biochemistry. Experience in molecular biology is highly desirable. Send curriculum vitae and names of three references to: **Dr. Joelle Gabay, Department of Microbiology, Columbia University, College of Physicians and Surgeons, 701 West 168th Street, New York, NY 10032. FAX: 212-305-1468; e-mail: jeg46@columbia.edu.**

POSTDOCTORAL POSITIONS in cellular neurobiology—Oregon Health Sciences University. Positions are available to study neuronal polarity, including the sorting and transport of axonal and dendritic membrane proteins, RNA transport and localization, and the role of extracellular signals in the development of polarity. Our approach emphasizes cell culture models, viral vectors for manipulating gene expression, and live cell imaging; a strong background in cellular and molecular neurobiology is required. Send curriculum vitae and the names of three references to: **Gary Banker, Program in Cellular Neurobiology, Center for Research on Occupational and Environmental Toxicology/Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098.**

POSTDOCTORAL POSITION JOHNS HOPKINS UNIVERSITY

A Postdoctoral position is available immediately to study the regulation of calcium channels in bone and cancer cells. Experience in molecular and cellular techniques is required. Applicants should send a curriculum vitae, publications, a statement of research interests and career goals, and the names of three references to: **Dr. S. E. Guggino, Department of Medicine, Johns Hopkins School of Medicine, 929 Ross Building, 720 Rutland Avenue, Baltimore, MD 21205. E-mail: sguggino@orion.bs.jhmi.edu.**

POSTDOCTORAL POSITION

We study human DNA replication, growth regulation, cell-cycle checkpoints, and regulation of HIV replication. Our group is interactive, productive (see website: www.urmc.rochester.edu/smd/biophys/faculty/bambara.htm) with an excellent record of future permanent employment. Send a curriculum vitae and three recommendations to: **Dr. Robert Bambara, Biochemistry and Biophysics, Box 712, University of Rochester, Rochester, NY 14642.**

POSITIONS OPEN

An NIH-funded **POSTDOCTORAL/RESEARCH ASSOCIATE** position is available immediately for a highly motivated individual experienced in cell biology, immunology, or biochemistry to study the differentiation of trophoblast cell from the human placenta. Areas under investigation include control of plasma membrane phospholipid distribution, *in vivo* models of cellular invasion, and intercellular fusion. Candidates must possess a Ph.D. in a relevant area, or equivalent degree at the time of hiring. Please send a letter of application, curriculum vitae, recent reprints, and the names of three references to: **Neal S. Rote, Ph.D., Professor and Chair, Department of Microbiology and Immunology, Wright State University School of Medicine, Dayton, OH 45435. FAX: 937-775-2012; e-mail: nrote@wright.edu; website: <http://www.med.wright.edu/som/academic/micro/micro6.html>.** Review of applications will begin October 31 and continue until a suitable candidate is hired. Wright State University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW. University of California, San Francisco (UCSF). Postdoctoral position available immediately to study molecular aspects of central nervous system plasticity in alcohol and drug abuse. Ongoing studies include gene expression/identification by subtractive cloning or high-density gene array technologies, transcriptional regulation, and signal transduction. Experience in molecular or cell biology is required. Applicants must have a Ph.D. in biochemistry, molecular biology, or related field. Send curriculum vitae, brief summary of research experience, and three letters of reference to: **Michael F. Miles, M.D., Ph.D., University of California, San Francisco, Department of Neurology, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110. Affirmative Action/Equal Opportunity Employer.**

RESEARCH ASSOCIATE/POSTDOCTORAL POSITIONS. Applications are invited for Research Associate/Postdoctoral positions to investigate the regulation of apoptosis. Projects include the characterization of novel anti-apoptotic genes, and the effect of ethanol on the type I insulin-like growth factor receptor signaling pathway. Candidates should have a Ph.D. and have extensive experience in molecular biology and biochemistry. Please send curriculum vitae along with the names and addresses of three references to: **Dr. Raphael Rubin, Department of Pathology, Thomas Jefferson University, 1020 Locust Street, 233 Alumni Hall, Philadelphia, PA 19107. FAX: 215-955-8703; e-mail: rubin1@jeflin.tju.edu.** Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study immunochemical and cellular aspects of mucosal immunity. Experience in cellular immunology required. Background in molecular biology is also desirable. Send curriculum vitae and names of three references to: **Dr. Paul C. Montgomery, Professor and Chair, Department of Immunology and Microbiology, Wayne State University Medical School, 540 East Canfield Avenue, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer. All buildings, vehicles, and structures at WSU are smoke-free. Wayne State University—People working together to provide quality service.**

POSTDOCTORAL POSITION available to study protein-RNA interactions and RNA structure. Applicants should have a recent Ph.D. in biochemistry or chemistry, and molecular biology experience is preferred. Research involves purification of recombinant proteins, details of protein-RNA recognition, and probing of RNA structure. Send curriculum vitae, a brief description of research interests, and names of three references to: **Dr. Karen LeCuyer, Department of Biochemistry, University of Connecticut Health Center, MC-3305, Farmington, CT 06030. E-mail: lecuyer@nso2.uchc.edu.**

An Affirmative Action/Equal Opportunity Employer. Minorities/Females/Persons with Disability/Veterans.

POSTDOCTORAL POSITION

An NIH-funded position is available to study *Drosophila* genes that regulate organelle biogenesis and germ cell differentiation (*Development* 121:2937 and 124:3651). The candidate must be a U.S. citizen and willing to apply eventually for external funding. Please send a curriculum vitae and the names of three personal references to: **Dr. Dennis McKeearin, Department of Molecular Biology and Oncology, University of Texas-Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75235-9148. E-mail: mckeearin@utsw.swmed.edu.**

POSITIONS OPEN

TWO POSTDOCTORAL POSITIONS AT HARVARD MEDICAL SCHOOL

Available immediately to identify cis- and trans-acting elements that control type IV collagen transcription and to study the functions of autosomal dominant polycystic kidney disease genes by molecular and cell biological means. Successful applicants should have a background in molecular biology and either biochemistry, cell biology, or molecular genetics. Please send curriculum vitae to: **Dr. J. Zhou, Harvard Institutes of Medicine, Room 522, 4 Blackfan Circle, Boston, MA 02115. Telephone: 617-525-5860; FAX: 617-525-5830; e-mail: zhou@mberr.harvard.edu.** Women and minorities are encouraged to apply. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION is available to study mitogen-induced cellular signaling pathways. Current research is being directed at elucidating the function and regulation of novel Ras-related GTPases and guanine nucleotide exchange factors, Nck and the Rho-associated kinase, PRK2 (*JCB* 271:28772, 1996). Applicant should be highly motivated and have a strong background in molecular biology and biochemistry. Send curriculum vitae and names of three references to: **Lawrence Quilliam, Walther Oncology Center and Department of Biochemistry and Molecular Biology, 635 Barnhill Drive, MS-410, Indiana University School of Medicine, Indianapolis, IN 46202. FAX: 317-274-4686; e-mail: lquillia@iupui.edu.** Affirmative Action/Equal Opportunity Employer.

DEPRESSIVE DISORDERS AND ALZHEIMER'S DISEASE

POSTDOCTORAL POSITIONS available immediately to study the molecular basis of depressive disorders or Alzheimer's disease in an academic-based drug discovery program at Northwestern University Medical School. Ph.D. or M.D. required with significant research/laboratory experience. Preference given to candidates with outstanding potential as independent scientists and excellent training in neurosciences, genetics, or medicinal chemistry. Send curriculum vitae and names of three references to: **D. M. Watterson, D.D.P., P.O. Box 118126, Chicago, IL 60611.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately for biologists seeking training in cellular physiology. Projects involve application of a wide range of electrophysiological and molecular approaches toward understanding of ion channel function and synaptic transmission. In particular, individuals with interests or background in developing *Xenopus* or zebrafish nervous systems are encouraged to apply. Interested persons should send curriculum vitae, statement of research interests, and names of three references to: **Paul Brehm, Department of Neurobiology and Behavior, SUNY at Stony Brook, Stony Brook, NY 11794. E-mail: pbrehm@brain.bio.sunysb.edu.**

POSTDOCTORAL POSITION available immediately for NIH-funded research to clone the gene of a parasite-derived protein involved in host-parasite interaction. A Ph.D. with experience in molecular biology is essential. If interested, please send your curriculum vitae to: **K. Ramaswamy, Department of Biomedical Sciences, University of Illinois College of Medicine at Rockford, 1601 Parkview Avenue, Rockford, IL 61107. FAX: 815-395-5666; e-mail: ramswamy@uic.edu.** The position will remain open until filled. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to work on an NIH-funded project involving gene expression in gastrointestinal inflammation. Molecular biological experience required; immunology background desirable. Contact: **Dr. Keith Wilson, Department of Medicine, University of Maryland Medical System, N3W62, 22 South Greene Street, Baltimore, MD 21201. Telephone: 605-7000, ext. 5211; FAX: 410-605-7914; e-mail: kwilson@umabnet.ab.umd.edu.**

POSTDOCTORAL or RESEARCH ASSISTANT (M.S.) position available immediately to study heavy metals as endocrine disruptors. Background in cell culture, cell biology, and/or signal transduction is desirable. Send a curriculum vitae and names and telephone numbers of three references to: **Dr. David Barnes, Poultry Science Center, University of Arkansas, Fayetteville, AR 72701. FAX: 501-575-7139; e-mail: dbarnes@comp.uark.edu.** Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL OPPORTUNITIES CENTER FOR BIO/MOLECULAR SCIENCE AND ENGINEERING

Naval Research Laboratory
Website: <http://cbmse.nrl.navy.mil>

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POSTDOCTORAL POSITION available to study signal transduction/transcriptional regulation relevant to the cardiovascular system. Current projects include: cloning/functional analysis of novel transcription factors; identification of signal cascades important in cell cycle regulation; defining elements of cytoplasmic-nuclear signal relay; development of novel approaches for identifying DNA binding protein targets. Requirements include Ph.D. and/or M.D., strong background in molecular/cellular biology, and U.S. citizenship or permanent resident status. Please send curriculum vitae, research statement, and names of three references to: H. S. Bernstein, M.D., Ph.D., Division of Pediatric Cardiology, University of California, San Francisco, 513 Parnassus Avenue, Box 0632, San Francisco, CA 94143-0632. FAX: 415-476-3112; e-mail: hs.bernstein@pedcardgateway.ucsf.edu. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately to study the yeast homologue of the Friedreich's Ataxia gene (*Nature Genetics* 16:352-357, 1997). Recent or pending Ph.D. with experience in molecular biology and *Saccharomyces cerevisiae* preferred. Applicants should send a curriculum vitae, description of research experience, and bibliography along with the names and addresses of three references to: Dr. Robert B. Wilson, University of Pennsylvania, Department of Pathology and Laboratory Medicine, 509A Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104-6100. E-mail: wilsonr@mail.med.upenn.edu.

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POSTDOCTORAL FELLOW. Bone/cell/molecular biology. Saint Francis Hospital and Medical Center is seeking candidates who have completed a doctoral degree to join our NIH-supported Bone Biology Laboratory. Interested candidates should send a résumé and references to: Dr. Ernesto Canalis, Director, Department of Research, Saint Francis Hospital and Medical Center, 114 Woodland Street, Hartford, CT 06105-1299. FAX: 860-714-8053. Equal Employment Opportunity/Affirmative Action—Minorities/Females/Disabled/Veterans.

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POSTDOCTORAL POSITION

A Postdoctoral position is available for an individual interested in gene regulation in mammalian and/or viral systems. Areas of interest include functional characterization of transcription factors, assembly of protein-DNA complexes, mechanisms of transcription activation/repression.

Applicants with a strong background in molecular biology and biochemistry are encouraged to apply. Experience in tissue culture, yeast expression, molecular virology, and/or interaction cloning is highly desirable. Applicants should send a curriculum vitae and three letters of reference to:

Dr. John P. Capone
Professor and Chair
Department of Biochemistry
McMaster University
1200 Main Street West
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POSTDOCTORAL POSITION in behavioral neuroscience at The University of California—San Francisco. Position available immediately to study the behavioral neurobiology of alcohol and drug abuse. Studies will examine the neural correlates of the behavioral aspects of drug abuse using animal models (rats and mice) of drug reinforcement, discrimination, sensitization, and dependence. Strong background in behavioral pharmacology is desirable. Experience conducting site-specific microinjections, microdialysis, voltammetry, electrophysiology, or immunohistochemistry is also desirable. Send curriculum vitae, statement of research experience and interests, and three letters of reference to: Clyde W. Hodge, Ph.D., c/o Kate Hoernle, University of California—San Francisco, Department of Neurology, 1001 Petter Avenue, Building 1, Room 101, San Francisco, CA 94110. E-mail: chodge@itsa.ucsf.edu; website: <http://egrc.ucsf.edu>.

POSTDOCTORAL POSITION available for Biochemist/Biophysicist to study the kinetics and equilibrium of protein synthesis initiation factors interacting with mRNA. Experience in fluorescence spectroscopy, stopped-flow kinetics, and protein purification preferred. Please send curriculum vitae and three letters of recommendation to: Dr. Dixie J. Goss, Professor, Department of Chemistry, Hunter College City University of New York, 695 Park Avenue, New York, NY 10021.

Ph.D. POSTDOCTORAL or RESEARCH ASSOCIATE at the University of Pennsylvania Infectious Disease Division to study role of HSV glycoproteins in immune evasion. Experience in molecular biology/virology preferred. Send résumé to:

Harvey Friedman, M.D.
Chief, Infectious Disease
536 Johnson Pavilion
Philadelphia, PA 19104-6073

POSTDOCTORAL POSITIONS available for studies in HIV immunotherapy and vaccine development. Strong background in molecular biology/immunology and monoclonal antibody development preferred. Salary commensurate with experience. Send curriculum vitae, summary of relevant experience, and names of three references to: Dr. Abraham Pinter, Public Health Research Institute, 455 First Avenue, New York, NY 10016. FAX: 212-576-8420; e-mail: pinter@phri.nyu.edu.

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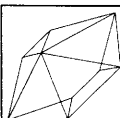
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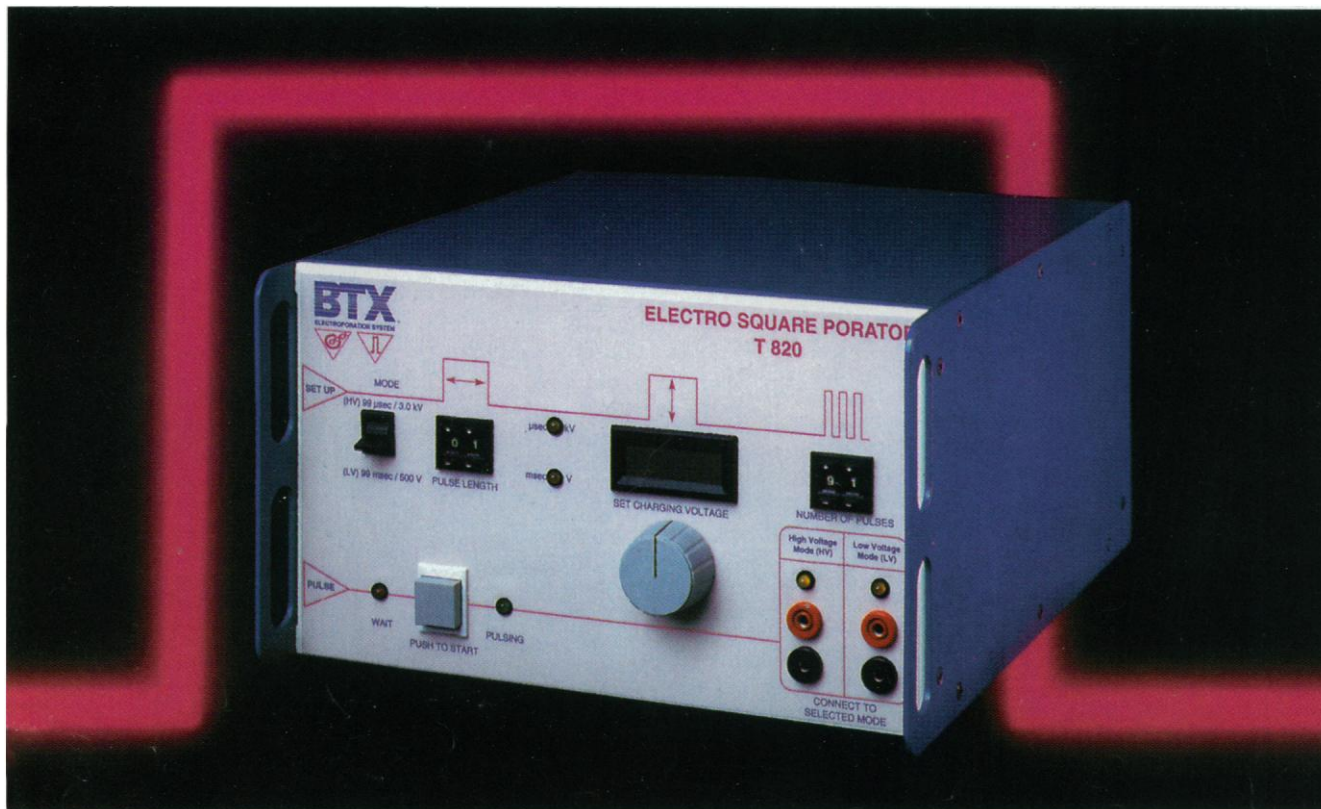
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¹Rhesus Monkeys Produced By Nuclear Transfer. L. Meng, D.P. Wolf, et. al.; BIOLOGY OF REPRODUCTION 57, 454-459 (1997)

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