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## LINE CLASSIFIED ADVERTISEMENTS

### How to Submit a Line Classified Ad:

Send your ad text to: e-mail: science\_classifieds@aaas.org; fax: (202) 289-6742. You must include your telephone number, billing address, and purchase order number in your e-mail or fax. Do not bold, italicize, or abbreviate any words. *Science* will edit and typeset ads according to *Science* style. **Science cannot provide proofs of typeset line ads.** Available categories: Positions Open, Meetings, Announcements, and Courses and Training. Line advertisements are not commissionable.

**Estimates:** *Science* will provide a cost estimate for line ads. **This is an approximate cost only.** Purchase orders must allow for variation between estimated lines and actual typeset lines and resulting final cost.

For line advertising deadlines, call Troy Benitez, Telephone: (202) 326-6740; or Kristin Westapher, Telephone: (202) 326-6555; FAX: (202) 289-6742. E-mail: science\_classifieds@aaas.org

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

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

**Discounts:** A 3% cash discount is granted to all prepaid ads.

**Ads from Outside the U.S.:** A discount of \$30 will be offered to advertisers making payment in U.S. dollars by checks drawn on U.S. banks. Contact Debbie Cummings. Telephone: +44(0) 1223 302067; FAX: +44(0) 1223 576208.

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E-mail: science\_classifieds@aaas.org (please include your telephone number in e-mail)

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

## POSITIONS OPEN

### MUSC

MEDICAL UNIVERSITY  
OF SOUTH CAROLINA

#### FACULTY POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Department of Biochemistry and Molecular Biology of the Medical University of South Carolina invites applications for tenure-track positions at the level of **ASSISTANT/ASSOCIATE PROFESSOR**. Areas of interest to the department include signal transduction, molecular genetics, biophysical chemistry, and molecular/biochemical approaches to the study of diseases. Successful candidates will be expected to develop extramurally funded research programs and actively participate in Departmental, Graduate, and Medical School functions. Minimal qualifications include an M.D. or Ph.D. degree or equivalent, appropriate postdoctoral experience, and a high level of productivity as evidenced by a strong record of scholarly achievement. Send curriculum vitae, a brief description of research and teaching interests, and the names and e-mail addresses of three references to: **Dr. Julie Chao, Department of Biochemistry and Molecular Biology, 173 Ashley Avenue, P.O. Box 250509, Medical University of South Carolina, Charleston, SC 29425.** *The Medical University of South Carolina is an Affirmative Action/Equal Opportunity Employer.*

#### FACULTY POSITIONS IN ECOLOGY SAN DIEGO STATE UNIVERSITY

The Department of Biology at San Diego State University offers two tenure-track positions in its ecology program area to begin fall 1999; **ASSISTANT/ASSOCIATE** level preferred. **MARINE INVERTEBRATE ECOLOGIST.** Coastal marine invertebrates preferred. **FISH ECOLOGIST/FISHERIES BIOLOGIST.** Preferred research specializations for both positions include population biology, conservation, physiology, functional morphology, and ecotoxicology.

Postdoctoral experience desirable and candidates must have demonstrated externally funded research activity. Expectations include teaching/mentoring a diverse student body at undergraduate, M.S., and Ph.D. levels and interacting with 13 Ecologists with conservation/restoration ecology and ecosystem/global change emphases. Send curriculum vitae, statement of research and teaching interests, three representative publications, and names of three referees either to: **Invertebrate or Fish Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-4614.** Applications accepted until 1 December 1998 or a suitable candidate has been identified. More information available at website: <http://www.sci.sdsu.edu/fac-recruitment>. *SDSU is an Equal Opportunity/Title IX Employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, marital status, age, or disability.*

#### FACULTY POSITION TERRESTRIAL VERTEBRATE ZOOLOGY

The Department of Biology invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level to begin in fall 1999. We seek a broadly trained Ph.D. with research expertise in any area of vertebrate biology including molecular, physiological, morphological, or behavioral biology from an evolutionary perspective. The successful candidate is expected to seek external funding for their research program, supervise graduate student research, and must exhibit potential excellence in teaching. Teaching responsibilities may include some of the following: vertebrate biology, comparative anatomy, herpetology, human physiology, and graduate seminars. Applicants should send a curriculum vitae, statements of teaching and research interests, reprints of up to five publications, and names and full addresses (including e-mail) of three references to: **Dr. Jim Dole, Chair, Department of Biology, California State University, 18111 Nordhoff Street, Northridge, CA 91330-8303.** Applications must be received by 15 December 1998. *California State University, Northridge is an Equal Opportunity Employer committed to excellence through diversity.*

## POSITIONS OPEN

### CHAIR DEPARTMENT OF OCEAN, EARTH, AND ATMOSPHERIC SCIENCES Old Dominion University

Old Dominion University invites applications for the position of Chair, Department of Ocean, Earth, and Atmospheric Sciences within the College of Sciences. The department seeks a senior scholar with demonstrated excellence in research, teaching, and administration.

The Chair must have national and international scientific reputations within their field of specialization. Demonstrated scientific leadership on many levels is essential. The appointment will be at rank of Full Professor with a competitive salary. The position will be available in July 1999.

Located in Norfolk, Virginia, Old Dominion is a state, Doctoral-research university enrolling approximately 19,000 students, including 5,500 graduate students. There are currently 25 full-time faculty members, five research faculty members, and seven postdoctoral students along with 23 staff members in the department. The department grants M.S. and Ph.D. degrees along with undergraduate majors and minors. There are 45 graduate students in the department. Within the department is the Commonwealth Center for Coastal Physical Oceanography (CCPO). The department maintains a 65-foot research vessel, the R/V Linwood Holton, with a replacement vessel planned for the near future.

The Chair's responsibilities will include strong leadership and the promotion of the scientific goals of the department in state, national, and international arenas. The Chair also has the primary responsibility for the development of quality programs in instruction, research, and professional services within the department.

Applications in the form of a letter of interest, a copy of their curriculum vitae, and the names of three references should be sent to: **Dr. Thomas C. Royer, Search Committee Chair, Department of Ocean, Earth, and Atmospheric Sciences, Old Dominion University, Norfolk, VA 23529.** Telephone: 757-683-5547; FAX: 757-683-5550; e-mail: [royer@ccpo.odu.edu](mailto:royer@ccpo.odu.edu). Review of applications will begin on January 4, 1999, and will continue until the position is filled.

*Old Dominion University is an Affirmative Action/Equal Opportunity Institution and requires compliance with the Immigration Reform and Control Act of 1986.*

#### FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY SUNY Health Science Center at Syracuse

We invite applicants for a tenure-track position at the **ASSISTANT PROFESSOR** level. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Applicants must have a Ph.D. or equivalent degree, postdoctoral experience, demonstrated research productivity, and a commitment to excellence in teaching medical and graduate students. Send letter of application, curriculum vitae, and descriptions of past research accomplishments and future research plans to: **Faculty Search Committee, Department of Biochemistry and Molecular Biology, State University of New York, Health Science Center at Syracuse, 750 East Adams Street, Syracuse, NY 13210.** Please have three letters of reference sent directly to the above address and include the names of the referees in your application letter. Review of applications will begin November 15, 1998, and continue until the position is filled. Further information is available at website: <http://www2.ec.hscsyr.edu/biochem/>.

*An Affirmative Action/Equal Employment Opportunity/ADA Employer committed to excellence through diversity.*

#### FACULTY POSITIONS/VISION RESEARCH

Saint Louis University, an institution in the Catholic Jesuit tradition dedicated to education, research, and health care, is seeking applicants for tenure-track faculty positions at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Preference will be given to individuals with expertise and a strong publication record in molecular, biology/genetics, cell biology, or physiology. Current federal grant support and academic experience are desirable. Send curriculum vitae and brief statement of research interests to: **Steven J. Fliesler, Ph.D., Faculty Search Committee Chair, Saint Louis University Eye Institute, Saint Louis University School of Medicine, 1755 South Grand Boulevard, St. Louis, MO 63104-1540.** E-mail: [fliesler@sul.edu](mailto:fliesler@sul.edu). *Saint Louis University is an Affirmative Action/Equal Opportunity Employer, and encourages nominations of and applications of women and minorities.*



**MAYO FOUNDATION FOR  
EDUCATION AND RESEARCH  
ROCHESTER, MINNESOTA**

**Director, Molecular Biology  
Core Facility**

The Mayo Clinic invites applications and nominations for the position of Director of the Molecular Biology Core Facility. This facility is one of twelve specialized service facilities under the cognizance of the Research Resource Facility Subcommittee of the Mayo Rochester Research Committee. These Core Facilities are specialized service facilities that have been established at Mayo Clinic to develop and sustain state-of-the-art research facilities in support of Mayo investigators for the express purpose of maintaining quality and competitiveness of research at Mayo Clinic. They are available to all Mayo investigators engaged in clinical or basic research with approved, peer-reviewed protocols or established research programs.

The Molecular Biology Core at the Mayo Clinic provides custom synthesis of synthetic oligonucleotides, semi-automated DNA sequencing, a six-week, basic laboratory course in molecular biology, and consultation/collaboration on a wide spectrum of research projects associated with nucleic acid detection, identification, and analysis.

The Director of the Molecular Biology Core Facility should have an advanced degree, a Ph.D., or equivalent, in a relevant field of study and a history of publication in Molecular Biology. The Director should also have experience in the management of technical personnel and in dealing with a wide spectrum of people. Familiarity with or experience in business principles such as might have been gained from managing or dealing with a similar facility would be important to the successful operation of this core facility. Candidates should submit their curriculum vitae, three letters of reference, and other relevant material no later than **November 30, 1998**, to:

**Norman Meeks, Secretary  
Research Resource Facility  
Subcommittee  
Research Services, Siebens 613  
Mayo Clinic  
200 First Street S.W.  
Rochester, MN 55905**

*Mayo Foundation is an Affirmative Action  
and Equal Opportunity Employer and  
Educator.*

## Ph.D. Regulatory Pathologist



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. An exciting career opportunity in Regulatory Pathology exists at our Strategic Research Center in Bridgewater, NJ.

**Description:**

Responsibilities include providing expertise in gross macroscopic examination, histological evaluation of prepared slides, and interpretation of clinical pathology data for all Toxicology/Pathology studies. The incumbent will also be responsible for the developing the pathology program including design and oversight of all necropsy, histology, and clinical pathology laboratories and procedures. This position will also play an integral role on drug development project teams.

**Requirements:**

Ph.D./DVM in Pathology/Toxicology. Minimum of 5 years of relevant experience in the pharmaceutical industry, D.A.C.V.P. certification required, D.A.B.T. certification preferred. Experience in the evaluation of GLP toxicology studies and participation in FDA inspections. Experience with Artemis II data collection systems, highly desirable. Excellent written and verbal communication skills. Ability to effectively interact with a multidisciplinary team of research professionals.

Attracting and retaining top talent is a high priority at Hoechst Marion Roussel. That is why we offer one of the most outstanding and comprehensive compensation and benefits packages in the pharmaceutical industry. Our total rewards package includes competitive compensation and bonus programs, flexible medical and dental plans, tuition assistance, income protection plans, and generous retirement plans that have been cited as the best in the industry.

For consideration, mail your resume (suitable for scanning) including salary history/requirements, to: **Staffing Manager, D-103H, Ref 1998BW0026, Hoechst Marion Roussel, Routes 202-206, P.O. Box 6800, Bridgewater, New Jersey 08807-0800, U.S.A., or e-mail: jobs@hmri.com.** For additional company information and available positions, we invite you to visit our website: **www.hmri.com.**

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**Hoechst**

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## SIMON FRASER UNIVERSITY DEAN OF SCIENCE

Simon Fraser University invites applications and nominations for appointment as Dean of Science for a term of five years commencing September 1, 1999. Having served two terms, the incumbent Dean is not eligible for reappointment.

The Faculty of Science includes the Departments of Biosciences, Chemistry, Mathematics and Statistics, and Physics. Newly established Biochemistry and Earth Sciences programs are incipient departments. The Faculty is also a full partner in the Bamfield Marine Station and TRIUMF research consortia. The Faculty has an authorized complement of 130 FTE faculty who provide instruction to approximately 2,300 undergraduate and 360 graduate FTE students. This is a research intensive Faculty that attracts \$10 million annually in external research grants and has centers of research excellence and innovation in all departments. The Dean is the chief academic and operating officer of the Faculty with an annual budget of approximately \$18.5 million. The Dean of Science is also a member of the senior administration of the University sharing responsibility with the President, three Vice-Presidents, and six fellow deans for the overall management of the institution. Simon Fraser University is Canada's leading comprehensive university, and seeks a Dean of Science committed to building on the Faculty's solid foundation of excellence.

*Simon Fraser University is committed to employment equity and invites applications from all qualified persons.*

*In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and permanent residents.*

Applications and nominations, accompanied by a curriculum vitae and the names of three referees, should be sent to:

**Dr. David Gagan  
Vice-President, Academic  
Simon Fraser University  
Burnaby, B.C.  
V5A 1S6  
(Fax: (604) 291-5876)**

The closing date for the receipt of applications is December 15, 1998.

**Department of Pharmacology  
University of Minnesota Medical School  
TENURE-TRACK POSITION**

**(Assistant Professor, Associate Professor, Professor)**

The Department of Pharmacology at the University of Minnesota Medical School invites applications for a new tenure-track faculty position in molecular/cellular pharmacology. The successful candidate is expected to establish an outstanding, independent research program, in addition to participating in team-taught undergraduate/graduate medical courses in pharmacology. Requirements for the Assistant Professor position include a Ph.D. in Pharmacology or other basic medical science, or an M.D., and at least 2 years of postdoctoral research experience. Candidates with a strong research background and experience in using state-of-the-art approaches involving cellular, molecular, genetic, or biophysical techniques to study problems relevant to pharmacological sciences are preferred. Applicants must have demonstrated excellence in research as documented by publications in leading peer-reviewed journals.

Appointment as **Associate Professor (Tenured)** or **Professor (Tenured)** will be considered for applicants with professional distinction in published research, teaching, and evidence of consistently attracting extramural funding for research. Appointment at these ranks must meet the minimum qualifications established by the University of Minnesota.

Applicants should indicate the rank for which they are applying and send a copy of their curriculum vitae, reprints of important publications, a brief statement of research plans, and names of three references to: **Chairperson, Pharmacology Search Committee, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 435 Delaware Street S.E., Minneapolis, MN 55455**. Review of applications will begin November 20, 1998. Position will remain open until it is filled. *University of Minnesota is an Equal Opportunity Education/Employer and offers an excellent academic research environment.*

Information about the Department of Pharmacology and its programs is available on the Department's website (<http://www.pharmacology.med.umn.edu>).

**PROFESSOR AND CHAIR  
Department of Biological Sciences**

**Bayer School of Natural and Environmental Sciences**

Duquesne University invites applications and nominations for the position of Professor and Chair of the Department of Biological Sciences. Much growth has occurred at Duquesne University over the past ten years and the Sciences have benefited from a substantial influx of financial resources. The Department currently has 14 full-time faculty members and 5 full-time staff, and supports 20 graduate teaching assistants. Our faculty have research interests in the areas of cellular and molecular biology, microbiology, and cellular and systems physiology. Their research is currently supported by \$1.8M in extramural funding. The Department of Biological Sciences has contemporary B.S. and M.S. programs with a strong research emphasis, and a multidisciplinary Ph.D. program is in the planning stages. The Department occupies 40,000 square feet of space in the award-winning Mellon Hall of Science, and benefits from a strong infrastructure for both research and teaching. Additional information regarding our programs, the School, and the University can be found at the University website ([www.duq.edu](http://www.duq.edu)).

We are seeking an individual with imagination, energy, and leadership ability to enable us to continue building and strengthening our educational and research programs. The preferred candidate will have an earned Ph.D. in an area of Biological Science, be an established researcher with a strong record of publication and extramural support, have a strong commitment to excellence in education, and have demonstrated leadership skills.

Applicants should submit a full curriculum vitae, the names and addresses of three references, a letter of interest which includes a summary of teaching philosophy and leadership skills, and a two-page description of research interests and goals to: **Steven P. Thomas, Ph.D., Chair, Faculty Search Committee, Department of Biological Sciences, Duquesne University, Pittsburgh, PA 15282**.

Salary will be commensurate with qualifications and experience. Review of applicants will begin immediately, and will continue until the deadline for receipt of applications, which is **December 7, 1998**.

*Duquesne University is an Affirmative Action/Equal Opportunity Employer.*



**Faculty Positions  
Washington University in St. Louis  
(<http://www.biology.wustl.edu>)**

As the first two of several faculty additions designed to build on existing strengths, the Department of Biology at Washington University now seeks colleagues working in the areas of Plant Science and Evolution of Development. Candidates should have significant research accomplishments and a commitment to excellence in both undergraduate and graduate teaching. Although we anticipate filling these positions at the assistant professor level, we would be pleased to consider distinguished senior applicants.

**Plant Science.** Candidates are sought who pursue innovative molecular and cellular approaches to the study of any area of plant biology using plant or model microbial systems. Participation in interdisciplinary research within the University, as well as with the newly established Donald Danforth Plant Sciences Center in St. Louis, will be encouraged.

**Evolution of Development.** Candidates are sought who will be able to establish a vigorous program of research, and provide leadership in research training, at the interface between evolutionary and developmental biology. Those studying evolution of development in any taxa will be carefully considered, but candidates with expertise in vertebrate biology will be viewed with particular interest.

Review of applications will begin December 14. Letters of application should be accompanied by a CV, brief statements of research and teaching interests, reprints of three papers, and the names of three persons who have been asked to send letters of recommendation to: **The Plant Science Search Committee, OR, The Evolution of Development Search Committee, Department of Biology, Campus Box 1137, Washington University, St. Louis, MO 63130-4899, USA**.

*Washington University is an Affirmative Action/Equal Opportunity Employer.*



**Two Faculty Positions:  
Cell/Molecular Biology and  
Applied Plant Biotechnology**

The **Fralin Biotechnology Center** at Virginia Polytechnic Institute and State University invites applications for a tenure-track faculty position at the **Assistant Professor level or higher**. The successful applicant will receive generous start-up funds and laboratory space in the new state-of-the-art Fralin facility. Appointment will be made to a home department appropriate to the successful candidate's area of expertise. Teaching duties will be determined by the home department.

Qualifications include postdoctoral experience, significant publications in peer reviewed journals, and the ability to attract extramural funding. Suggested areas of expertise to complement existing strengths are: plant biotechnology, transgenics, molecular microbiology, glycobiology, imaging, metabolic/protein engineering, genomics, bioinformatics, and molecular medicine.

See the Fralin website [www.biotech.vt.edu](http://www.biotech.vt.edu) for more information. Qualified applicants should send curriculum vitae, names and addresses of three references, and a letter outlining teaching and research plans by December 15 (or until position is filled) to the attention of: Mr. Don Ball, Fralin Biotechnology Center (0346), Virginia Tech, Blacksburg, VA 24061, 540 231-6934, [biotech@vt.edu](mailto:biotech@vt.edu).

The **Department of Plant Pathology, Physiology and Weed Science** invites applications for a 12-month, tenure-track **Assistant Professor** position in plant biotechnology. The successful candidate will be expected to develop an innovative, externally-funded research program using molecular, cellular and biochemical approaches to solve problems in applied plant biotechnology. Potential areas for research are: application of transgenic plant technologies to bioproduction of pharmaceutical and industrial compounds, edible vaccines, nutritional enhancement, metabolic engineering, pathogen and pest resistance, and abiotic stress resistance.

Qualifications include a Ph.D., postdoctoral experience, publications in peer reviewed journals, excellent communication skills, and interest in collaborative research. Teaching responsibilities include an applied biotechnology course and team-taught graduate level topics course in molecular cell biology and biotechnology. Qualified applicants should send a statement of interest, curriculum vitae, official transcripts, and three letters of recommendation by January 15, 1999 to Ms. Arleta Boyd, Department of Plant Pathology, Physiology, and Weed Science, Virginia Tech, Blacksburg, VA 24061. For more information and a detailed description of the position see departmental website at [www.ppws.vt.edu](http://www.ppws.vt.edu).

*Virginia Tech is an equal opportunity employer.*



**The Picower Institute  
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to the  
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disease  
and the  
improvement  
of human  
health.

## **POST-DOCTORAL FELLOWS AND INVESTIGATORS IN MOLECULAR MEDICINE**

Established in 1991, The Picower Institute for Medical Research, under the direction of Jesse Roth, M.D., President, is undergoing substantial growth and expansion of its laboratories. We seek innovative and dynamic individuals interested not only in doing research, but also having their research translated into clinical application.

Our highly interactive and interdisciplinary research facility provides a unique environment where a multidisciplinary faculty of well-published, collegial scientists interact in carrying out focused research programs in molecular medicine. We have positions available in the following laboratories and research areas working under the respective faculty:

**Marc Symons, Ph.D., Director,  
Laboratory of Molecular Oncology**  
Elucidation of the mechanisms that control cell proliferation and invasion in malignant growth. Emphasis is on the signaling pathways that are governed by the Rho family of GTPases.

**Maria Ruggieri, Ph.D., Director,  
Laboratory of Cell Signaling**  
Understanding the mechanisms that mediate suppression of apoptosis in cancer cells, particularly the signal transduction pathways downstream of survival factors that play important roles in transformation.

**Michael Bukrinsky, M.D., Ph.D.,  
Director, Laboratory of Molecular  
Pathogenesis of HIV Disease**  
Focus on the molecular mechanisms of HIV-1 nuclear import, HIV-1 effects on chemokine production and receptor expression by immune cells, and signal transduction from chemokine receptors.

**Richard Bucala, M.D., Ph.D., Director,  
Laboratory of Medical Biochemistry**  
Research in areas such as the role of MIF and glucocorticoids in inflammatory disease, fibrocyte antigen presentation, and cancer cell metabolism.

**Barbara Sherry, Ph.D., Director,  
Laboratory of Cytokine Biology**  
Understanding the biological roles of novel cytokines as specific leukocyte chemotactic agents and growth factors to assess their role in bacterial, viral, and parasitic infection.

**Kevin J. Tracey, M.D., Director,  
Laboratory of Biomedical Science**  
Focus on central nervous system pathology and endogenous mediators of the immune system activation, tumor cell biology, and molecular responses to invasive disease.

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

Applicants with a proven track record of experimental research are encouraged to forward a c.v.; a brief research plan; along with a list of publications, references, and indication of laboratory of interest, to: Search Committee-S, The Picower Institute for Medical Research, 350 Community Drive, Manhasset, New York 11030, U.S.A.; Fax #: (516) 869-0629; e-mail: [hr@picower.edu](mailto:hr@picower.edu). We also invite you to write to the specific Laboratory Director for additional information. We are an equal opportunity/affirmative action employer m/f/d/v.

## Building a winning team

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**I M A G I N E**

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We are among the world's largest pharmaceutical companies, employing over 30,000 professionals around the globe. At our Kalamazoo, Michigan research facility we are discovering innovative therapeutic agents to treat Central Nervous System and Infectious diseases. In all of these areas, our objective is to help people live longer and fuller lives.

## Molecular Toxicologist

We seek a Research Scientist/Toxicologist to play a pivotal role in Worldwide Toxicology at our research facility in Kalamazoo, Michigan. As a member of a multidisciplinary team, selected candidate will investigate the mechanism of toxicology of new drug candidates, and participate in collaborative research with medicinal chemists, pharmacologists, and other toxicologists.

Individual will plan, design, conduct, and interpret toxicology studies intended to provide mechanistic information about toxicology of new pharmaceutical entities and established drugs. Specific responsibilities will include working with Drug Discovery teams to innovatively investigate/implement new methodologies for predicting toxicity of novel pharmaceutical entities; planning and carrying out a variety of new techniques such as the use of microarrays; and performing analysis of data leading to prediction of mechanisms responsible for toxicity. In addition, the successful candidate will need to create new in vivo and in vitro assays for toxicity evaluation based on limited data and implement the assays in a multidisciplinary, team-oriented environment.

The successful candidate will have a strong fundamental education in bioscience (biology, biochemistry or biomedical sciences) with a Ph.D. in toxicology, molecular biology, cell biology or biochemistry and more than 3 years experience related to mechanisms of toxicity. Demonstrated knowledge and experimental experience with the methods of cell biology and molecular toxicology is required; experience with investigating mechanisms of toxicology of pharmaceutical agents is a strong positive factor. Strong communication and teamwork skills in relating the planning and conducting of studies and reporting results are essential and the selected candidate will be expected to publish regularly internally and externally in high quality peer-reviewed journals as permitted by proprietary guidelines. An appreciation of the whole animal and its complexities will be expected as will the ability to interpret results in the context of clinical risk/benefit assessments.

At Pharmacia & Upjohn you can make a difference. Not only for the sake of your career, but also for the millions of people around the world whose lives will be enhanced by the solutions you help provide. For confidential consideration, please send your C.V. to:

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Portage Rd., Kalamazoo, MI 49001. Or you may e-mail your resume (no attachments, please) to: [recruit@am.pnu.com](mailto:recruit@am.pnu.com).

We are an equal opportunity employer with a commitment to workplace diversity.



**Pharmacia & Upjohn**



**Simmons College**

Department of Biology

*Ahead of its time in 1899. Ahead of its time now.*

## PLANT BIOLOGIST

Seeking a broadly trained plant biologist with a strong commitment to undergraduate teaching to fill a tenure-track faculty position at the level of Assistant Professor. Recent post-doctoral experience involving cellular and molecular techniques and an interest in field work and environmental science will complement the department's existing research program involving Simmons undergraduates. Teaching responsibilities include introductory biology, plant physiology, cell biology, and upper-level courses.

Interested candidates should send a letter of application, a curriculum vitae, and a statement of current and future research interests and how this research can be incorporated into an undergraduate setting, by November 1, 1998, to: Dr. Sandra Williams, Plant Biologist Search Committee, Department of Biology, Simmons College, 300 The Fenway, Boston, MA 02115; fax: (617) 521-3086. Please do not send recommendations until requested. Prospective employees must have authorization to work permanently in the United States.

*Simmons College is strongly committed to diversity and values candidates who bring a variety of backgrounds and experiences to our community.*

## RESEARCH & DEVELOPMENT

*Wyeth-Lederle Vaccines and Pediatrics (WLVP), a member of the Wyeth-Ayerst family, is recognized internationally as a leader in the research, development and manufacture of vaccines for prevention of viral and bacterial diseases. We currently have the following immediate opportunities at our Pearl River, NY location:*

### SENIOR RESEARCH SCIENTIST I, Immunology

Successful candidate will be expected to independently solve problems and supervise implementation of a number of vaccine research projects. Must have expertise in "cutting edge" technologies in humoral, cellular and mucosal immunology with strong emphasis on responses to viral infections. Specific hands on experience in *in vivo* and *in vitro* methods of viral immunology is required. This position requires a Ph.D. in Microbiology/ Immunology and 2 years industrial work experience, supervisory experience is desired.

### ASSOCIATE RESEARCH SCIENTIST, Virology

Successful candidate will provide technical support for preparation and evaluation of viral vaccine candidates. Independently perform tissue-culture-based virology procedures under research and GLP/GMP conditions to prepare virus stocks, evaluate phenotypes, and develop assays as needed. This position requires a Bachelor's Degree in Biological Sciences, Microbiology or related scientific discipline and 10 years (Master's 8 years) related laboratory experience.

We offer competitive compensation and benefits, including a Savings Plan. If you wish to be considered for one of these outstanding opportunities, please send your resume including salary history, and indicating position of interest, to: Wyeth-Lederle Vaccines and Pediatrics, Human Resources, 401 No. Middletown Road-#140/402, Pearl River, New York 10965. Principals Only Please. An Equal Opportunity Employer.



**Wyeth-Lederle  
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Protecting Families Through Immunization®



**HOLLAND LABORATORY**

## POSTDOCTORAL FELLOWS HEMATOPOIESIS RESEARCH PROGRAM HOLLAND LABORATORY, AMERICAN RED CROSS

Three postdoctoral fellow positions are available beginning January 1999 in the new Hematopoiesis Department being formed at the Jerome H. Holland Laboratory, the Biomedical Research and Development division of the American Red Cross. Candidates should have a Ph.D. and less than three years postdoctoral experience. Projects are focused on molecular mechanisms in hematopoiesis and developing improved vector systems for gene delivery to hematopoietic stem cells (PNAS 93:10297, 1996; Gene Ther. 4:1013, 1997; Genomics 50:44, 1998; Blood 92:877, 1998).

Interested individuals should send their curriculum vitae and names of three references to:

Robert G. Hawley, Ph.D.  
Head, Hematopoiesis Department  
Holland Laboratory  
American Red Cross  
15601 Crabbs Branch Way  
Rockville, MD 20855  
EOE, M/F/D/V.



**American  
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is number one in the  
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**I**nnovative. Progressive. Responsive. This best describes our research philosophy at Novartis, a world leader with prominent positions in Seeds, Crop Protection, and Animal Health. Our mission at Novartis Agribusiness Biotechnology Research, Inc., located in Research Triangle Park, NC is to make discoveries that enable the creation of novel seeds, new methods of protecting crops, and new animal health products that enhance human life in an environmentally sustainable manner.

#### **Molecular Cell Biologist #9856**

As a member of the world's largest life sciences company, you will join a multi-disciplinary research team whose objective is to manipulate insecticidal proteins for transgene expression in plants.

The qualified candidate must have a Ph.D. with at least 2+ years' postdoctoral experience in biochemistry, molecular biology or relevant field with a strong background in protein-protein interactions and ligand binding. We are especially interested in someone working in the area of receptor mediated endocytosis of insect toxins. A working knowledge of the yeast two-hybrid system, phage display and assay development is desirable. Molecular biology skills must include those related to vectoring and heterologous gene expression. Familiarity with insect and plant systems would be helpful. Scientific excellence, effective organizational skills and the ability to work in a team-oriented group is essential. Position #9856-SM-BRI

#### **Molecular Biologists #9881 & #9882**

We seek highly motivated individuals to join our chemical gene switch project team. Position #9881 requires a Ph.D. in molecular biology, biochemistry or related field with expertise in gene expression and transcriptional regulation. Strong molecular biology skills are required. Some biochemistry experience is preferred. Position #9882 requires an MS or a BS + 5-8 years of experience in molecular biology or related field. Familiarity with transient expression assays in eukaryotic systems preferable. Strong communication and teamwork skills are required of all candidates. Positions #9881-SM-BRI & #9882-SM-BRI.

#### **Molecular Biologist #9885**

We are looking for a highly motivated, creative individual to join our hybridization technology team. The successful candidate should have a Ph.D. or a Masters +8 years experience in molecular biology or related field. Solid molecular biology skills required. Familiarity with cDNA/genomic cloning and mutagenesis techniques is preferred. Strong communication and teamwork skills are required. Position #9885-SM-BRI.

#### **Plant Cell Cytologist #9878**

In this role, you will work independently as a cytologist and molecular biologist in the Seeds Transformation Group. Key responsibilities include working as a team member of the Maize Transformation Group, performing molecular cloning, and preparing technical reports and oral presentations.

To qualify, you must have a Ph. D or equivalent degree in a biological science and 5+ years of experience in cytology and molecular biology related research. Strong knowledge of fluorescent in situ hybridization (FISH), BAC cloning, plant breeding, and the genetics of maize and satellite repeats is essential. Solid organizational, analytical, problem-solving and interpersonal skills are a must. Position #9878-SM-BRI.

Novartis Agribusiness Biotechnology Research, Inc., offers a competitive salary commensurate with qualifications and experience, a comprehensive benefits package, and an environment conducive to professional achievement. Qualified candidates please paste your c.v. (including a skills list and a list of three references), followed by your cover letter, into the body of an e-mail and send to:

novartisbiotech@recruitmentsolutions.com Indicate the position #\_\_\_\_-SM-BRI in the subject area. To ensure that your information is uploaded into our HR System, please do not send your resume and cover letter as attachments. An Equal Opportunity Employer.

For more information about Novartis, visit our website at: [www.cp.us.novartis.com](http://www.cp.us.novartis.com)

For Job opportunities at Novartis visit: [www.careermosaic.com](http://www.careermosaic.com) Click on "Employers" and follow the alphabetized links to the Novartis site.



**Dendreon Corporation** is a privately held biotechnology company utilizing a novel therapy based on the use of dendritic cells. We've developed an innovative platform technology that allows the isolation and activation of dendritic cells from blood and the use of these cells to stimulate immune responses against both virally infected tissue and cancer cells. We are currently seeking qualified candidates in the following areas that will be involved in programs to develop approaches for dendritic cell immunotherapy of cancer:

#### SCIENTIST, CELLULAR IMMUNOLOGY

You will be involved in planning and conducting research in the field of *in vitro* and *in vivo* immunology of dendritic cells. If you are experienced in the use of basic and applied cellular immunology techniques and have a scientific track record in studying cellular immunology and/or cancer biology, we'd like to see your curriculum vitae. A Ph.D. in Immunology or related discipline with at least 3 years of postdoctoral experience is required.

#### SCIENTIST, MOLECULAR BIOLOGY

You will plan and conduct research in the field of discovery and engineering of target antigens for immunotherapy of cancer. Familiarity with a wide variety of current molecular cloning techniques is needed for this position along with a scientific track record in gene discovery, cloning, and characterization. A Ph.D. in Molecular Biology or related discipline with at least 3 years of postdoctoral experience is required.

We offer a competitive salary and benefits package, including stock options. For consideration, please send your curriculum vitae to the **Human Resources Department at 291 N. Bernardo Avenue, Mountain View, CA 94043, (650) 964-7023 FAX.** Please note: **We're moving to the beautiful city of Seattle in January, 1999.**

**DENDREON CORPORATION**

## POSTDOCTORAL FELLOWSHIPS & STUDENTSHIPS AVAILABLE

The Perinatal Research Centre (PRC) at the University of Alberta, Edmonton invites highly qualified applicants for several postdoctoral fellowships and studentships in basic perinatal research in either physiology, immunology, endocrinology, or pharmacology. The PRC offers modern state-of-the-art facilities, a competitive stipend, and a great location. Edmonton is a vibrant, cosmopolitan city providing an abundance of cultural experiences. The University of Alberta is one of Canada's leading research universities with 30,000 students.

- Postdoctoral fellows who have received their graduate degrees within the last three years with excellent academic and publication records will be considered.
- Graduate students will be assessed primarily on academic standings. Members of the PRC are conducting leading-edge research in the following areas:
  - Placental function and perinatal infections
  - Control of parturition/preterm birth
  - Nerve muscle development, electrophysiology
  - The role of nitric oxide in cardiovascular function
  - Pregnancy complications/preeclampsia
  - Fetal heart metabolism and development
  - Fetal growth
  - Molecular biology of steroid receptors
  - Anatomy and Embryology

Successful candidates will be associated with the academic department of their choice.

For more details see our homepage: <http://www.ualberta.ca/PERINATAL/>.

Please forward a letter of inquiry, résumé, and most recent transcripts to:  
**Eileen Marco, Perinatal Research Centre**  
 220 Heritage Medical Research Centre  
 University of Alberta, Edmonton  
 Alberta T6G 2S2 Canada  
 Tel: (403) 492-2765 Fax: (403) 492-1308  
 E-mail: [eileen.marco@ualberta.ca](mailto:eileen.marco@ualberta.ca)



### Tenure Track Assistant Professor Developmental Biologist

The Department of Molecular Biology and Pharmacology at Washington University School of Medicine is recruiting individuals at the level of Assistant Professor on the tenure track. We are seeking an outstanding scientist working in the area of developmental biology. Special emphasis will be given to research involving systems where genetic tools can be used to address fundamental questions dealing with development. Faculty in the Department of Molecular Biology and Pharmacology utilize a broad range of organisms including yeast, *C. elegans*, *Drosophila*, and mice to investigate cell fate specification, pattern formation, and the regulation of cell proliferation, differentiation, migration, and death. (Visit our website at <http://pharmsun.wustl.edu>.)

Interested applicants should forward a curriculum vitae and a short summary of research plans to:

**Search Committee (c/o Jeffrey I. Gordon, Head)**  
 Department of Molecular Biology and Pharmacology  
 Washington University School of Medicine  
 660 South Euclid Avenue, Box 8103  
 St. Louis, MO 63110

Applicants should also arrange to have three letters of recommendation sent to the same address.

*Washington University is an Affirmative Action/Equal Opportunity Employer committed to increasing the representation of women and minority groups on its faculty.*

## TENURE TRACK ASSISTANT PROFESSOR

**Department of Biology and Biotechnology**

**WPI**

The Department of Biology and Biotechnology at WPI invites applications for a tenure track position at the assistant professor level. Preference will be given to biological researchers of exceptional promise who enhance their main research effort by using computational methods in their scholarship, including: genome database analysis, computer modeling and simulation, or ecological systems dynamics. The successful applicant is expected to develop a vigorous, independent, extramurally-funded, research program. We prefer a colleague who will complement current faculty strengths. All undergraduate students at WPI are required to complete research projects. Therefore, the successful candidate will supervise undergraduate and graduate projects in our BS, MS and Ph.D. programs. Teaching responsibilities will include participation in basic courses, an advanced course in the applicant's specialty area, and academic advising. A strong commitment to undergraduate teaching is expected and will be evaluated in the interview process.

Candidates should send a letter of application, a brief statement of research and teaching interests, vitae, and 3 or more letters of reference to: **Human Resources, WPI, Box Bio, 100 Institute Road, Worcester, MA 01609-2280. Applications must be received by December 15, 1998. Visit our web site at <http://www.wpi.edu/Academics/Dept/Bio/>**



To enrich education through diversity, WPI is an Affirmative Action, Equal Opportunity employer.



**DEAN  
Bayer School of Natural and  
Environmental Sciences  
DUQUESNE UNIVERSITY**

Duquesne University invites applications and nominations for the position of Dean of the Bayer School of Natural and Environmental Sciences. The Bayer School includes the Departments of Biological Sciences, Chemistry and Biochemistry, and Physics, as well as the Center for Environmental Research and Education. The Bayer School offers educational programs of excellence leading to undergraduate degrees in biochemistry, biology, chemistry, microbiology, and physics. Graduate degrees include the M.S. in biology, chemistry, and environmental science and management, and the Ph.D. in chemistry and biochemistry.

The School has experienced substantial growth in its educational and research programs since its inception in 1995, and currently has 36 full-time faculty, 330 undergraduate students, and 160 graduate students.

Candidates are sought with the vision, energy, and leadership ability to work collegially and effectively with the faculty of the School, with the Deans of the other University professional Schools and the College of Liberal Arts, the Administration, as well as other constituencies — both internal and external — to continue the unprecedented growth of the School and its programs.

Preferred candidates will have an earned doctorate or equivalent and be established scholars of national and international stature with a record of scholarly achievement that would make them eligible for a tenure senior appointment in one of the School's Departments.

Duquesne University has nearly 10,000 students in its nine Schools. Its attractive campus is located on the bluff overlooking the city of Pittsburgh, one of America's most livable cities. Pittsburgh is one of the nation's leading corporate headquarters and offers a variety of cultural, educational, recreational, and professional opportunities.

Application should be submitted by 1 December 1998 with an anticipated appointment date of 1 July 1999. Application and nomination packets, including a curriculum vitae and references, should be submitted to:

**Dean Thomas J. Murrin, Chair  
Bayer School of Natural and Environmental  
Science Search Committee  
Duquesne University  
Rockwell Hall Room 709  
600 Forbes Avenue  
Pittsburgh, PA 15282**

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website at: <http://www.duq.edu>

# Thomas Jefferson University

An Academic Health Center  
Philadelphia, PA



Thomas  
Jefferson  
University

## *Dean of the College of Graduate Studies and Vice President for Research*

Thomas Jefferson University invites applications for the position of the Dean of the College of Graduate Studies and Vice President for Research.

Thomas Jefferson University is an Academic Health Center offering programs related to medicine and the health sciences. It comprises Jefferson Medical College, the College of Graduate Studies and its undergraduate division, the College of Health Professions. The University is an academic arm of the Jefferson Health System, a network of hospitals in the greater Philadelphia area.

In the past ten years, the University's research and graduate training programs have shown a rate of growth among the highest in Academic Health Centers. The University plans for continued growth in these areas. The extramural support for research currently exceeds \$80 million annually. The Graduate College has an enrollment of more than 600 students in 9 Ph.D. and 7 M.S. programs. The 200 member graduate faculty is a subset of the faculties of Jefferson Medical College and College of Health Professions.

The Dean and Vice President is a Senior Officer of the University, who as the Dean of Graduate College reports to the President of the University, and as the Vice President for Research to the Senior Vice President for Academic Affairs and Dean of Jefferson Medical College.

The Dean and Vice President will provide leadership and oversight for the University's graduate education programs, research administration, including oversight of grants administration, regulatory affairs and compliance in the conduct of research.

The successful candidate will have a doctoral degree and a record of active research with a national and international reputation. Significant experience in research administration, and grants management, as well as in educating future scientists and health professionals is expected.

Applications and nominations with a full curriculum vitae and other pertinent documents, including three references should be sent to the Office of the President, Thomas Jefferson University, 1020 Walnut Street, Philadelphia, PA 19107. The Search Committee will consider applications beginning October 1998 until the position is filled.

Thomas Jefferson University is an equal opportunity employer.



# nature Structural biology

## seeks an EDITOR

Applications are invited for the position of Editor of *Nature Structural Biology*.

Nature America is seeking a successor to Guy Riddihough, the founding Editor of *Nature Structural Biology*, who is leaving the post after five successful years developing a journal that leads its field in quality, reputation and impact. We are looking for a successor who can continue to build *Nature Structural Biology's* role in structural studies, including increasing its coverage of structure-based investigation of biomolecular function.

The Editor is responsible for the editorial content of this leading international journal, working closely with a team of staff based in New York. Contact and communication with the structural and related biological research communities worldwide is central to the role so that the editorial profile of the journal continues to meet the needs and interests of its growing number of readers. Planning and management of editorial resources as part of the senior management team of the Company is an integral part of the job.

The ideal candidate should have a Ph.D., and post-doctoral training as a research scientist, must possess outstanding scientific judgement, and a broad knowledge and appreciation of structural biology required to select manuscripts for publication and commission reviews. Experience in the communication of science would be a distinct advantage.

Applications, which should include a curriculum vitae and a succinct (up to 1000 words) assessment of strengths and weaknesses of *Nature Structural Biology*, should be sent to Mary Waltham, President, Nature America Inc., 345 Park Avenue South, New York, NY 10010, Fax (212) 696-9009, **to arrive no later than November 13th, 1998.**



Nature America Inc.

Nature America, Inc.  
345 Park Ave. South  
New York, NY 10010

# USF University of South Florida

## PROFESSOR AND CHAIR OF BIOLOGY

The Department of Biology at the University of South Florida (USF) seeks an internationally recognized scholar to fill the position of Department Chair, to begin in August, 1999. Appointment as Chair is a twelve month appointment at the full professor level for a four year renewable term; the successful applicant will be eligible for tenure.

We seek a dynamic individual with administrative experience and excellent interpersonal and leadership skills to lead this diverse and interdisciplinary department and to be a strong advocate for the faculty. Minimum qualifications include a doctorate in one of the biological sciences, an outstanding record of extramurally funded research, and extensive teaching experience at the undergraduate and graduate level.

USF is a large research and teaching institution with 4 campuses and 35,000 students; the main campus is located in the multicultural city of Tampa. USF is ranked as a Carnegie Institute Research Level Two Institution. The Biology Department has over 30 faculty, 1800 undergraduate majors, and over 100 graduate students pursuing master's and Ph.D. degrees. It is a leader among departments on campus. Department faculty members are highly active in grant-funded research.

To apply, submit curriculum vitae, names, addresses, and telephone numbers of three references, and statements of research interests and administrative philosophy to the address below. Completed applications should be received by December 15, 1998. Applications or nominations should be sent to Chair Search Committee, Department of Biology, University of South Florida, 4202 E. Fowler Avenue, SCA 110, Tampa, FL 33620-5150. For disability accommodations, please call 813-974-3250. More information regarding this position can be obtained at <http://www.cas.usf.edu/biology/chair.html>.

An AA/EAO Institution

## Ph.D. Molecular Oncology

Idun Pharmaceuticals is an early stage biopharmaceutical company focused on innovative therapies for controlling cell death.

We are currently seeking a Ph.D. to join our Molecular Biology group to work on signal transduction pathways involved in the regulation of apoptosis in tumor cells. The ideal candidate will have a Ph.D. in Molecular or Cell Biology with at least four years of post-doctoral experience and preferably industry experience. The position requires an in-depth knowledge of the pathways involved in survival signaling, specifically kinase biology and broad knowledge of molecular biological techniques. The successful candidate is expected to make significant conceptual contributions in the context of Idun's growing Cancer project. Good interpersonal skills and the ability to work as part of a team are required.

Idun Pharmaceuticals is an exciting, rapidly growing company with an attractive compensation and benefits package, including equity participation. For confidential consideration, please send your resume to:



Idun Pharmaceuticals, Code MB2,  
11085 N. Torrey Pines Road  
Suite 300, La Jolla, CA 92037.  
*Equal Opportunity Employer*

## The University of Illinois at Urbana-Champaign School of Molecular & Cellular Biology Faculty Positions in Molecular and Cellular Biology

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites applications from scientists with interests in Cellular and Molecular Biology to apply for faculty positions in:

1. Cell and Developmental Biology (deadline extended from previous advertisement)
2. Cellular Neurobiology
3. Immunology relevant to Bacterial Pathogenesis
4. Structural Biology

These positions are full-time and tenure-track in the Departments of Biochemistry, Cell and Structural Biology, Microbiology, and Molecular and Integrative Physiology. Although we anticipate most of these appointments will be made at the Assistant Professor level, applications for positions at the Associate and Full Professor levels will also be considered and highly qualified scientists at these levels are encouraged to apply. The starting date for these positions is August 1999. Appointment at the Assistant Professor level requires a doctoral degree, postdoctoral experience, and evidence of outstanding research potential. Appointees at this level will be expected to develop a vigorous, independently funded research program. Appointment at higher levels requires evidence of outstanding research accomplishments including extramural funding and national recognition. Applicants at all levels will be expected to contribute effectively to undergraduate/graduate teaching.

The University of Illinois is committed to significant future growth in the biological sciences and we anticipate additional hires in these and related areas each year for the next several years. Successful candidates will be provided with excellent laboratory facilities, substantial start-up funds, and a salary commensurate with experience. The University of Illinois at Urbana-Champaign offers a highly interactive, interdisciplinary research environment, and state-of-the-art research support facilities. Urbana-Champaign offers the residential advantages of a medium-sized university city, excellent cultural opportunities, and easy access to Chicago and St. Louis. Information concerning the University can be found at <http://www.uiuc.edu/>.

Applicants should submit a curriculum vitae with a complete list of publications, a concise summary of research interests and future plans, and four letters of recommendation. Applications should be addressed to the appropriate search committee as follows:

Search  
School of Molecular and Cellular Biology  
University of Illinois at Urbana-Champaign  
393 Morrill Hall  
505 S. Goodwin Ave.  
Urbana, IL 61801

To ensure full considerations, applications should be received by Dec. 15, 1998. Interviews may be conducted before the closing date but no final decisions will be made before that time. These positions have been advertised separately.

*The University of Illinois at Urbana-Champaign is an Affirmative Action, Equal Opportunity Employer.*

### Washington and Jefferson College Washington, PA 15301 Biology

Washington and Jefferson College ("W&J") seeks a faculty member for a tenure-track Assistant Professor position in the Biology Department.

A Ph.D. in a biological science, demonstrated excellence in teaching undergraduates, and wide-ranging interests in biology from the molecular level to environmental biology are required. Teaching duties include lecture and laboratory sections of general biology, biochemistry, cell biology, genetics, and molecular biology. Candidates should also be committed to advising students, participating in interdisciplinary teaching, attracting external funding, and guiding undergraduate research in a department committed to the cooperative pursuit of excellence.

The majority of W&J biology majors go on to health professional schools or to graduate schools in areas related to biomedical research.

A letter of application, curriculum vitae, statement of teaching and research philosophy and experiences, graduate transcripts, and the names and telephone numbers of three references should be sent to the **Associate Dean of Academic Affairs, Biology Search, Washington and Jefferson College, 60 South Lincoln Street, Washington, PA 15301**. The application deadline is December 15, 1998.

W&J is a private, coeducational, national liberal arts college that takes pride in its teaching and learning environment. Washington, PA is a medium-sized city 30 miles south of Pittsburgh. *The College is an Affirmative Action and Equal Opportunity Employer. Women and minority professionals are encouraged to apply.*

### FUNDING OPPORTUNITIES James S. McDonnell Foundation Programs

and

### McDonnell-Pew Program in Cognitive Neuroscience

1998-1999 guidelines for applying to James S. McDonnell Foundation programs and for the McDonnell-Pew Program in Cognitive Neuroscience are available at

[www.jsmf.org](http://www.jsmf.org)

*Specific Programs:*

*The McDonnell-Pew Program in Cognitive Neuroscience*

*Cognitive Studies for Educational Practice (CSEP)*

*Cognitive Rehabilitation Program*

*Brain Cancer Research Program*

*The Initiative to Support Collaborative Research in Eastern Europe*

If you do not have access to the World Wide Web you can request copies of program guidelines by emailing [info@jsmf.org](mailto:info@jsmf.org). Please identify the program of interest.

All information requests for the McDonnell-Pew Cognitive Neuroscience Program should be directed to the James S. McDonnell Foundation. General information about The Pew Charitable Trusts, a joint sponsor of the McDonnell-Pew Program in Cognitive Neuroscience, is available at [www.pewtrusts.com](http://www.pewtrusts.com).

### ASSISTANT/ASSOCIATE PROFESSOR (PHYSIOLOGIST) CENTER FOR MEDICAL EDUCATION BALL STATE UNIVERSITY MUNCIE, INDIANA

The Muncie Center for Medical Education, a regional center for the Indiana University School of Medicine located on the Ball State University campus, invites applications for a tenure-track fiscal-year position at the level of Assistant or Associate Professor available July 1, 1999. Responsibilities include establishing an independent research program; participating in a team-taught physiology course for medical students. **Minimum qualifications:** Ph.D. in Physiology; postdoctoral experience. **Preferred qualifications:** background in neurophysiology. Salary is negotiable and is commensurate with experience. Start-up funds available. Send letter of application listing current research activities and teaching experience, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Douglas A. Triplett, Director, Center for Medical Education, Ball State University, Muncie, IN 47306**. Original transcripts will be required before interview. Applications must be postmarked by December 15, 1998. ([www.bsu.edu](http://www.bsu.edu))

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

# GORDON RESEARCH CONFERENCES

The 1999 Winter and International GRC Programs will  
appear in the October 2, 1998 Issue of *SCIENCE*

The preliminary 1999 Summer GRC program will  
appear in the November 27, 1998 issue of *SCIENCE*

For further information visit THE GRC WEB SITE

**<http://www.grc.uri.edu>**

or request information by Fax at 401-783-7644

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**GO TO A GORDON CONFERENCE**

## ASSOCIATE DIRECTOR, NJ SEA GRANT DIRECTOR, NJ SEA GRANT EXTENSION

The New Jersey Marine Sciences Consortium (NJMSC), a not-for-profit research and education corporation, manages the *New Jersey Sea Grant College Program*. NJMSC seeks a qualified candidate to fill the vacancy of **Associate Director, New Jersey Sea Grant College Program—Director, New Jersey Sea Grant Extension**. Duties include administration of biennial grant competition, budget oversight, interfacing with Principal Investigators, assisting Director with biennial SG omnibus proposal development, workshop development, symposium proceedings, and other outreach activities. As Director, Sea Grant Extension, incumbent will provide direction and management oversight for outreach activities in programmatic areas of the NJSG Strategic Plan—relevant to all NJ stakeholders. NJ Sea Grant Extension is a cooperative program with member institutions of the Consortium. It is expected that the Associate Director will hold a joint academic appointment at a member institution.

The successful applicant is expected to maintain an active research program, partly through extramural funding, and to participate in joint applications with member institutions.

Qualified candidates are required to hold a Ph.D., or other terminal degree, with specialty in one of the following areas: 1) coastal ecology, 2) coastal engineering or geology, 3) fisheries and/or marine biotechnology, 4) environmental sciences, or 5) marine policy and management.

Administrative and interdisciplinary program experience, strong communication skills, and a solid record of publication and grantsmanship preferred. A letter of intent, curriculum vitae, statements of philosophy of administration and coastal resources management, and names and addresses of three (3) references should be addressed to: **Dr. Michael P. Weinstein, President, New Jersey Marine Sciences Consortium, Sand Hook Field Station, Bldg. # 22, Fort Hancock, NJ 07732**. Application closing date is 1 December 1998.

*NJMSC is an Equal Employment Opportunity Corporation*. Proper documentation of identity and employability required at the time of employment.

## UNIVERSITY OF KANSAS THREE TENURE-TRACK POSITIONS IN MOLECULAR BIOSCIENCES

The Department of Molecular Biosciences, University of Kansas, plans to recruit twelve faculty in the next few years. For fall 1999 the Department invites applications for three tenure-track positions.

1. **Microbiologist**—Assistant Professor—Research interests in the area of microbial pathogenesis and disease. Contact person: **Dr. Stephen Benedict**.
2. **Neurobiologist**—Assistant Professor—Research interests in cellular neurobiology. Contact person: **Dr. Robert Palazzo**.
3. **Structural Biologist**—Assistant or Associate Professor—research interests in the **experimental or computational aspects of macromolecular structure, function, and dynamics**. Contact person: **Dr. Krzysztof Kuczero**.

For a full position announcement contact the person noted above at the **Department of Molecular Biosciences, 7042 Haworth Hall, University of Kansas, Lawrence, KS 66045-2106**. Application materials are to be sent to the contact person and should include a letter of application, statements of research and teaching interests, and a curriculum vitae. Applicants should also arrange to have three letters of recommendation sent to the contact person. Review of applications will begin on **December 15, 1998**. *An EO/AA Employer*. Positions are contingent upon budgetary approval. Departmental homepage address: <http://www.ukans.edu/~bcmic/bcmb.html>.



**MAYO CLINIC  
POSTDOCTORAL RESEARCH  
FELLOW  
OR  
SENIOR RESEARCH FELLOW**

A postdoctoral research fellow or senior research fellow position is available in the Mayo Clinic's Transplantation Immunology Program. The successful candidate will hold a Ph.D. and have a background in molecular biology or protein biochemistry. Experience in immunology and cellular physiology is desirable. Send a current curriculum vitae, bibliography, a description of research experience, and three letters of recommendations to:

**Jeffrey L. Platt, M.D.**  
Transplant Biology  
Mayo Clinic  
Medical Sciences Building  
200 First Street S.W.  
Rochester, MN 55905

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

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

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

Fellowships are awarded for 18 month appointments with a stipend of \$42,000 per year, a modest research budget and eligibility for group health insurance. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by **January 15, 1999** for the 1999-2000 awards. Awards will be announced in March. Write for application forms to:

**Dean of Graduate Studies,  
Education Office, MS #31  
Woods Hole Oceanographic Institution  
Woods Hole, MA 02543-1541  
Or call (508) 289-2219  
or e-mail [education@whoi.edu](mailto:education@whoi.edu)**

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<http://www.whoi.edu>

**Positions Available in Climate Applications Research**

**International Research Institute for Climate Prediction  
Lamont-Doherty Earth Observatory, Palisades, NY**

The International Research Institute for climate prediction (IRI) was established as a cooperative agreement between NOAA Office of Global Programs, Columbia University's Lamont-Doherty Earth Observatory, and Scripps Institution of Oceanography. IRI aims to assess and continually develop seasonal-to-interannual (SI) climate predictions; to produce the best and most useful climate prediction information on a routine basis; and to apply such information to the benefit of affected societies (<http://iri.ldeo.columbia.edu/>). The IRI Applications Research Division (ARD) links the physical, biological, and socioeconomic parts of the system in real settings by focusing the research, tools, and products of the other Divisions toward the needs of end users and by linking the IRI with decision-makers throughout the world. Positions available include:

**Director of Applications Research Division**

The ARD Director defines, implements, oversees, and evaluates IRI application research and demonstration projects, guiding the work of the Division staff by providing a creative, discipline-integrating vision of research and application. Minimum qualifications include a Ph.D. (or equivalent experience) in a relevant field; at least six years of experience involving the use of climate information in a practical setting; significant scientific accomplishment demonstrated by publications and professional activities; exceptional interpersonal, communications (oral and written), and leadership skills; and demonstration of ability to develop and maintain a diverse project funding profile from national and international government, non-government, and industry sources. The position involves extensive travel toward the development of a global-scale IRI applications network. Fluency in multiple written and spoken languages is preferred.

**Associate or Postdoctoral Research Scientist(s) in Applications**

This position will conduct research targeted toward practical application of climate forecasts, which will support the development of models or methodologies to shape or augment climate forecast information; this will aid in the development and organization of multinational pilot projects that seek to better understand the effects of significant climate variations on a variety of sectors, and will analyze the potential applications of SI climate forecasts for these sectors. Requirements include a Ph.D. degree (or equivalent experience) in a relevant field (e.g., anthropology, biology, economics, emergency preparedness, energy, forestry sciences, fishery sciences, health, hydrology, international affairs, policy sciences, water management, etc.) with academic training and/or experience working in another field or sector; demonstrated skill in research that is coordinated with scientists, experts, and practitioners in several other fields; familiarity with ocean and atmospheric climate sciences; and excellent interpersonal and communication skills (oral and written). Facility with advanced analysis tools, such as Geographic Information Systems (GIS), highly desirable.

**Postdoctoral Research Scientist in Agricultural Applications**

This position will work with a team of scientists to develop an IRI global food alert system linking predictions of El Niño, and climate in general, with agricultural consequences. The system will identify countries and regions of the world likely to experience food production shortages with three to six months lead time, and will be based on crop and climate forecasting technologies and tailored to the needs of international and national agencies with the capacity to take actions. Research is conducted primarily in the areas of crop-climate interactions, effects of the El Niño-Southern Oscillation (ENSO) phenomenon on crops, crop modeling, and statistics. Requirements include a Ph.D. in agronomy, agricultural engineering, or related field; documented record in pursuing original creative research in the relevant research areas; demonstrated ability to work in interdisciplinary teams; and excellent communication skills (oral and written).

**Associate Research Scientist in Agricultural Applications**

This position will have the responsibility for leading a team of scientists to develop an IRI global food alert system linking predictions of El Niño, and climate in general, with agricultural consequences, and for providing leadership in the coordination of regional research application centers. Involves scientific research in crop-climate interactions such as the effects of the El Niño-Southern Oscillation (ENSO) phenomenon on crops, crop modeling, and statistics. The global food alert system to be developed will identify countries and regions of the world likely to experience food production shortages with three to six months lead time. The system will be based on crop and climate forecasting technologies and tailored to the needs of national and international agencies with the capacity to take actions. The position also entails coordinating activities with international and U.S. federal agencies and proposal writing for program development. Position requirements include a Ph.D. in agronomy, agricultural engineering, or related field; minimum of four years of experience beyond the Ph.D. level in the designated areas of research, with strong documentation of crop modeling or related agricultural applications; experience in leadership and program development; demonstrated ability to work in interdisciplinary teams; and exceptional communication skills (oral and written).

**Associate or Postdoctoral Research Scientist in Quantitative Social Science**

This position will be responsible for design and implementation of various survey instruments to explore the impact and utility of climate-related information, and for conducting quantitative analyses of social sciences data as it pertains to the development and delivery of useful climate information vehicles across a wide range of sectors and regions. Applicant should be proficient in the use of a variety of techniques in gathering and analyzing data, including surveys; interviews; census and other government databases. Applicants should also be able to use various statistical software packages; should be proficient in computer programming skills. The quantitative methods will serve to complement ongoing qualitative applications research. Position requirements include a Ph.D. in anthropology, sociology, resource economics, or other relevant field; training and experience in ethnographic fieldwork techniques; a demonstrated ability to work in multidisciplinary teams; documented experience in research projects; and exceptional communication skills (oral and written). Some experience in database management helpful.

For all positions, fluency in written and spoken English is required; fluency in other languages is desirable. Salary is commensurate with experience. Letters of application, a curriculum vitae demonstrating qualifications, a list of publications, and three letters of recommendation, should be sent to the **IRI Search Committee/ARD, Lamont-Doherty Earth Observatory, 204 Oceanography, Palisades, NY 10964-8000 USA**. Applications will be reviewed starting December 1, 1998, but further applications may be considered until the positions are filled.

*Columbia University is an Equal Opportunity/Affirmative Action Employer who encourages applications from women and minorities and is responsive to the needs of dual-career couples.*

## POSITIONS OPEN

### TWO FACULTY POSITIONS AVAILABLE MOLECULAR GENETICS AND PHYSIOLOGY

The Department of Biological Sciences, Western Michigan University seeks applications for two tenure-track **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** positions, one in molecular genetics and one in physiology, beginning fall 1999 pending budgetary approval. A Ph.D. degree and postdoctoral training are required. The development of an externally funded research program and contribution to the Department's Master's and Doctoral programs is expected.

**Molecular Geneticist.** Candidates should have research interests in applying molecular biological techniques to a field of genetics. Preference will be given to individuals who can interact with existing faculty and who will complement the mission of the Department of Biological Sciences (see website: <http://www.wmich.edu/bios/>). Faculty interests include cancer biology, plant-microbe interactions, plant-insect interactions, neurobiology, and virology. Teaching responsibilities include an undergraduate course in general genetics and development of an upper-level course in molecular genetics.

**Physiologist.** Preference will be given to candidates trained to apply cellular and molecular techniques to address the mechanistic bases of fundamental life processes in animal cells, tissues, or systems. The ideal candidate would have research interests that complement existing strengths in vascular physiology, neurobiology and development; and/or immune cell biology. Teaching responsibilities include an undergraduate course in physiology and an upper-level course in an area of expertise.

To apply, send letter of application, curriculum vitae, statement of research and teaching plans, and have three letters of recommendation sent to: **Bruce Bejcek, Ph.D., Chair, Molecular Geneticist Search Committee** or **William F. Jackson, Ph.D., Chairman, Physiologist Search Committee, Room 3441 Wood Hall, Western Michigan University, Kalamazoo, MI 49008. E-mail: bejcek@wmich.edu or jackson@wmich.edu.** Applications will be accepted until November 30, 1998. *Western Michigan University is a Carnegie classification Doctoral Institution and an Equal Opportunity Employer with an Affirmative Action program to encourage application from underrepresented groups.*

### TENURE-TRACK FACULTY POSITION IN APPLIED PHYSICS California Institute of Technology

The Applied Physics Program at Caltech invites applications for one tenure-track position as **ASSISTANT PROFESSOR**. We are seeking highly qualified candidates who are committed to a career in research and teaching. Consideration will be given to any research area within the broadly defined scope of experimental applied physics. Applications will be accepted through January 15, 1999.

Interested applicants are encouraged to complete the registration form at the website: <http://www.cco.caltech.edu/~aphhome/register.html> and send a résumé with a publication list and a less than five-page research prospectus appended. Please attach your résumé/prospectus file in an e-mail addressed to e-mail: [vahala@cco.caltech.edu](mailto:vahala@cco.caltech.edu). Make the e-mail subject "aphcit search" and use your name as the résumé/prospectus file name. Submission of Adobe pdf files is encouraged; however, Word 5.x, 6.x, 98 for Mac or Word 95, 6.x, 97 for Windows will be accepted.

The appointment is contingent upon completion of Ph.D. and the term of the initial appointment is normally four years. *Caltech is an Equal Opportunity/Affirmative Action Employer. Members of underrepresented minority groups, veterans, and disabled persons are encouraged to apply.*

### FACULTY POSITION

The School of Biology at Georgia Tech invites applications for a position in molecular cell biology at the level of **ASSISTANT PROFESSOR**. The successful applicant is expected to establish an active program of funded research and to teach in the B.S. and Ph.D. programs. We seek candidates with research interest in signal transduction, cell-cell interaction, or subcellular structure in a eukaryotic system.

Curriculum vitae, description of research and teaching interests, and three reference letters should be submitted by December 31, 1998, to: **Faculty Search Committee, c/o Roger M. Wartell, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332.** *Georgia Institute of Technology is an Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### FACULTY POSITION DEPARTMENT OF NEUROBIOLOGY UCLA SCHOOL OF MEDICINE

The Department of Neurobiology of the UCLA School of Medicine invites applications for a tenure-track or tenured faculty position at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level. The Department has a strong commitment to excellence in research, scholarship, and teaching of graduate and professional students. We seek an outstanding individual who will address fundamental questions regarding the structure and function of the vertebrate nervous system to complement our established and emerging strengths in molecular, cellular, and systems neurobiology. The successful candidate must be capable of maintaining a vigorous, creative, and independent research program.

Applicants should have a Ph.D., M.D., or equivalent, and postdoctoral training experience in neuroscience. The position includes a competitive start-up package including new or recently renovated laboratories, and a salary that will be commensurate with rank and experience. The appointment may start as early as July 1, 1999.

To apply, please send a curriculum vitae and a brief statement of current and future research plans and have at least three letters of recommendation sent to:

**Nicholas C. Brecha, Ph.D.,  
Chair, Search Committee  
Department of Neurobiology  
UCLA School of Medicine  
Box 951763**

**Los Angeles, CA 90095-1763**

Application deadline: January 1, 1999.

*UCLA is an Equal Opportunity/Affirmative Action Employer.*

### OUTDOOR LEADERSHIP FACULTY POSITION.

Warren Wilson College seeks candidates who can contribute to the outdoor leadership, social sciences, environmental studies, and education programs. We particularly invite applications from individuals with a background in adventure education and experiential learning. The successful candidate will teach such courses as history and philosophy of adventure education, wilderness skills, initiatives, program planning, and group process. Highly desirable is the ability to teach introduction to environmental education, and environmental education methods and materials. The successful candidate will have opportunities for collaborative teaching, development of new courses, program development, and work with the North Carolina Outward Bound School, which has its administrative offices adjacent to the Warren Wilson College campus. The successful candidate must have an earned doctorate in an appropriate field. (A.B.D. candidates will also be considered.) Starting date of the position is August 1, 1999.

To apply: Interested applicants should submit a cover letter, curriculum vitae, official graduate transcripts, evidence of teaching excellence, and three letters of reference to: **Dr. Virginia McKinley, Vice President for Academic Affairs, Warren Wilson College, P.O. Box 9000, Asheville, NC 28815-9000.** Review of applications will begin December 1, 1998.

### FACULTY POSITION BIOLOGICAL SCIENCES

The Department of Biological Sciences at Lehigh University is seeking an **ASSISTANT PROFESSOR** of molecular biology for a tenure-track position. Candidates with research interests in eukaryotic, cell, or molecular biology are encouraged to apply. The successful candidate will have a strong record of scholarly productivity and the ability to generate extramural support for their research. A commitment to instruction at the undergraduate and graduate levels is integral to the position. Lehigh University is a Carnegie Research II, Ph.D.-granting institution. Competitive salary and benefits plus a generous start-up package are available. Send curriculum vitae and four references to: **Prof. L. Cassimeris, Chair, Molecular Biology Search Committee, Department of Biological Sciences, 111 Research Drive, Lehigh University, Bethlehem, PA 18015.** The deadline for applications is December 15, 1998. *Lehigh University is an Affirmative Action/Equal Opportunity Employer and is committed to recruiting and retaining women and minorities.*

## POSITIONS OPEN

### FACULTY POSITIONS IN EVOLUTIONARY BIOLOGY SAN DIEGO STATE UNIVERSITY

The Department of Biology at San Diego State University offers two tenure-track positions in its evolutionary biology program area, to begin fall 1999 at the **ASSISTANT or ASSOCIATE PROFESSOR level. POPULATION GENETICIST.** Expertise should center on the use of genetic or molecular techniques to address evolutionary questions of organisms at and below the species level, e.g., genetic variation, mating systems, conservation biology, speciation. Teaching will include undergraduate and graduate courses in genetics and evolution. **EVOLUTIONARY/SYSTEMATIC ENTOMOLOGIST.** Expertise should center on the evolution and systematics of insects, but strong candidates working on other taxa of terrestrial invertebrates will be considered. The successful applicant will address evolutionary, ecological, biogeographical, conservation, or functional questions within a phylogenetic context. Teaching will include undergraduate and graduate courses in entomology and invertebrate biology.

Candidates for either position must have a Ph.D. and active research program. Postdoctoral experience desirable. Expectations include interaction with a diverse student body and with an active group of faculty interested in systematics, evolution, and ecology. Send curriculum vitae, statement of research and teaching interests, representative publications, and have three letters of reference sent to either: **Population Geneticist Search Committee** or **Entomologist Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-4614.** Applications accepted until 22 November 1998. More information available at website: <http://www.sci.sdsu.edu/fac-recruitment>. *SDSU is an Equal Opportunity/Title IX Employer and does not discriminate against persons on the basis of race, religion, national origin, sexual orientation, gender, marital status, age, or disability.*

### FACULTY POSITION MICROBIOLOGY

The Department of Biological Sciences at the University of Pittsburgh anticipates making a full-time tenure-track faculty appointment in the area of microbiology beginning September 1999 subject to budgetary approval. Applicants with interests in microbial genetics, physiology, pathogenesis, and ecology are especially encouraged to apply. This appointment is expected to be made at the starting **ASSISTANT PROFESSOR** level, but experienced candidates with outstanding records may be considered at higher rank. The successful candidate must have a Ph.D. and substantial 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 14, 1998. Applicants should send a curriculum vitae along with a summary of research interests and goals, up to three reprints of relevant publications, and arrange to have at least three letters of reference sent to:

**Dr. Graham Hatfull  
Microbiology Search Committee  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260  
Telephone: 412-624-6975  
E-mail: [gfh@vms.cis.pitt.edu](mailto:gfh@vms.cis.pitt.edu)**

Further information on the Department of Biological Sciences is available at website: <http://www.pitt.edu/~biohome/dept/main.htm>. *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

### FACULTY POSITION

The School of Biology at Georgia Tech invites applications for a position in bioinformatics at the level of **ASSISTANT or ASSOCIATE PROFESSOR**. The successful applicant is expected to establish an active program of funded research and to teach in the undergraduate and graduate programs. We seek candidates with a research interest in the analysis of protein sequence and structure, or comparative genomics.

Curriculum vitae, description of research and teaching interests, and three letters of reference should be mailed by December 31, 1998, to: **Faculty Search Committee, c/o Roger M. Wartell, School of Biology, Georgia Institute of Technology, Atlanta, GA 30332.** *Georgia Institute of Technology is an Affirmative Action/Equal Opportunity Employer.*





## Northwestern University

### Department of Neurobiology and Physiology

A tenure-track faculty position is available in the area of:

#### Molecular and Cellular Neurobiology

The Department expects to hire a new faculty member with interests in areas such as (but not restricted to) the molecular, genetic, or cellular basis of neuronal signaling, signal transduction, plasticity, development, learning, or behavior. This position is likely to be filled at the junior level, but outstanding senior candidates will also be considered. The faculty member will be expected to maintain a strong independent research program, and to participate in graduate and undergraduate teaching. Applicants should send a curriculum vitae and statement of research interests by December 1 and have at least three letters of reference sent to the address below.

**Jon E. Levine, Ph.D.**  
Chair, Search Committee  
Department of Neurobiology & Physiology  
Northwestern University  
1253 North Campus Drive  
Evanston, IL 60208

*Women and members of minority groups are especially encouraged to apply. Northwestern University is an Affirmative Action/Equal Opportunity Employer.*

## NATIONAL SCIENTIFIC PROGRAM MANAGER

Major International voluntary health foundation is seeking a National Scientific Program Manager to assist in planning and directing the research program for grants, fellowships, program projects, and other research collaborations in support of work aimed at finding a cure for Type 1 diabetes. Will assist in determining program priorities, analyzing needs and research efforts, and assess ongoing efforts in basic and clinical research. Consults with governmental, private, and industrial organizations to identify and meet research needs.

Seven years of related basic and/or clinical scientific experience. Must have a doctorate, M.D. or equivalent professional degree such as D.M.D., D.V.M., or D.O. Specialized training or experience in a basic science discipline such as immunology, molecular biology, biochemistry, microbiology, molecular genetics, or clinical training and experience are required. Strong written and verbal communication skills desired. The ideal candidate should have experience in administration and management of biomedical research programs. Some travel required. *This position will be located in New York City.*

Please forward your resume along with salary requirements to: **NSPM, Juvenile Diabetes Foundation, 120 Wall Street, 19th Floor, New York, NY 10005-4001 or FAX: 212-785-9595.**  
EOE M/F/D/V



## Positions Available in Climate Modeling and Prediction

### International Research Institute for climate prediction Lamont-Doherty Earth Observatory, Palisades, NY

The International Research Institute for climate prediction (IRI) was established as a cooperative agreement between NOAA Office of Global Programs, Columbia University's Lamont-Doherty Earth Observatory, and Scripps Institution of Oceanography. The IRI (<http://iri.ldeo.columbia.edu/>) strives to assess and develop seasonal-to-interannual (SI) climate predictions; to produce the best and most useful climate prediction information on a routine basis; and to apply such information to the benefit of affected societies. The IRI Modeling Research Division (MRD) is charged with the continual development of state-of-the-art models and forecast systems for SI climate prediction, and focused research toward improved understanding of SI climate variability and predictability. Over the next few years, a group of 10-15 scientists and technical staff will be assembled within the MRD to work together and with scientists from partner research groups/centers on a set of research projects. These include global-scale coupled model development; ocean data assimilation; multi-model based forecast systems; SI climate dynamics and predictability; regional scale model development and "downscaling"; interfacing climate models with agricultural, hydrologic, or other "decision models"; and model/forecast system infrastructure design and implementation. Available positions include:

#### Associate Research Scientist in climate modeling and dynamics

The scientist will engage in an ongoing global-scale coupled model project to be conducted jointly between IRI and researchers from collaborating groups/centers. He or she will participate in, and implement, new experimental designs, conduct uncoupled (atmospheric) and coupled model simulations and experimental forecasts, analyze model/forecast performance, and diagnose systematic errors. Initial activities will focus on building a prototype coupled model for SI prediction from among the several component model physics and dynamics packages available through the project partners, and consideration of alternative coupling strategies. Candidates should have a Ph.D. in atmospheric science, physical oceanography, or related field; at least 2 years of experience with complex atmospheric models, including general knowledge of key process parameterizations and numerics in GCM's; knowledge, interest in large-scale atmospheric/ocean/land interaction and climate dynamics; desire to work collaboratively in a group environment; ambition to master new topics as needed to become an expert coupled climate modeler/dynamist.

#### Associate Research Scientist in ocean modeling and dynamics

The scientist will engage equally in the coupled model project described above, but with primary focus on the ocean. Duties will include participating in, and implementing, new experimental designs; conducting uncoupled (ocean) and coupled model simulations and experimental forecasts, analyzing model/forecast performance, diagnosing systematic errors, with focus on air/sea fluxes and coupling strategies. Candidates should have a Ph.D. in physical oceanography, atmospheric science, or related field; at least 2 years of experience with complex ocean models, including general knowledge of key process parameterizations in OGCM's; knowledge, interest in large-scale atmosphere/ocean interaction and climate dynamics; desire to work collaboratively within a group environment; ambition to master new topics as needed to become an expert coupled climate modeler/dynamist.

#### Associate Research Scientist in ocean data assimilation

The scientist will assist in design and implementation of a new ocean data assimilation module for the IRI forecast system, using (at least initially) a Kalman filter methodology. He or she will work with collaborating scientists from other institutions in developing alternative methodologies and error models; testing and refining the schemes in the context of retrospective forecasts; adapting to evolving models and data sources. Candidates should have a Ph.D. in physical, mathematical sciences or engineering; at least 2 years of experience in geophysical (preferably ocean) data assimilation; experience with complex codes and large data sets; desire to work collaboratively in a group environment; commitment and drive to create and maintain a state-of-the-art forecast system.

#### Associate Research Scientist in climate diagnostics and statistics

The scientist will devote primary attention initially to the development, testing, and evaluation of alternative "super-ensemble" forecast systems; that is, systems derived from ensembles of forecasts with multiple (coupled model) sources. The research will involve analysis of component system systematic errors; objective analysis methods for optimal ensembling, including determination of optimal state spaces; nonparametric statistics. Other activities could include development of model output statistics (MOS) techniques, interfacing climate model outputs to decision models. Candidate should have Ph.D. in atmospheric or ocean science, statistics, or related fields; at least 2 years of experience with analysis of climate data from observations and complex models, knowledge of advanced univariate and multivariate statistical methods; desire to work collaboratively; attraction to practical problems.

#### Associate Research Scientist/Staff Associate/Senior Staff Associate in computational science/software

This individual will initially focus on the porting of several GCM codes to the IRI computer systems (e.g., SGI Origin 2000 series). He or she will devote primary attention to the adaptation of one or more AGCM (and perhaps OGCM) codes to a common internal structure, with common user and data interfaces; and to the efficient operation of such codes in parallel computing configuration. He or she will contribute to multi-institutional efforts to design more versatile and comprehensive infrastructures; implement or support the implementation of such; port and implement relevant analysis, visualization, or other software for MRD activities. Candidate should have a Master's (or higher) degree in a physical science, engineering, or computer science; several years of experience with complex atmospheric or ocean model codes, and parallel computing environments; superb FORTRAN, UNIX shell programming skills; desire to work collaboratively, and to facilitate a science-driven research effort.

All positions require proficiency in FORTRAN, UNIX, excellent interpersonal and communication skills, and fluency in written and spoken English. Salary is commensurate with experience.

Qualified candidates should send letters of application, a curriculum vitae demonstrating qualifications listed for the position of interest, a list of publications, and three letters of recommendation to the **IRI Search Committee/MRD, Lamont-Doherty Earth Observatory, 204 Oceanography, Palisades, NY 10964-8000 USA**. Applications will be reviewed starting December 1, 1998, but further applications may be considered until the positions are filled.

*Columbia University is an Equal Opportunity/Affirmative Action Employer who encourages applications from women and minorities and is responsive to the needs of dual-career couples.*

## POSITIONS OPEN

### FACULTY POSITIONS CELL, DEVELOPMENT, AND NEUROBIOLOGY Emory University School of Medicine

The Department of Cell Biology ([website: http://www.emory.edu/CELLBIO/](http://www.emory.edu/CELLBIO/)) invites applications for tenure-track positions at the **ASSISTANT** and **ASSOCIATE PROFESSOR** levels. The Department and School of Medicine are under new leadership and are greatly expanding their research programs and laboratory facilities. Four new faculty joined the Department within the past two years. Additional Investigators are being sought who apply molecular approaches to problems in cell biology, development, or neurobiology, using diverse systems that complement the broad spectrum of interests in the Department. Faculty participate in strong interdepartmental graduate student training programs and have outstanding opportunities for collaborative research. The School of Medicine is located on Emory's main campus, in a desirable residential community within minutes of the many cultural and recreational opportunities of Atlanta and Georgia.

Send curriculum vitae, a brief description of the proposed research program, representative reprints, and the names and addresses of three references to:

Barry D. Shur, Ph.D.  
Department of Cell Biology  
Emory University School of Medicine  
1648 Pierce Drive, Room 100  
Atlanta, GA 30322

Applications should be received by December 1, 1998, to receive full consideration.

Emory University is an Equal Employment Opportunity/Affirmative Action Employer.

### CHAIR, PHYSIOLOGY AND BIOPHYSICS GEORGETOWN UNIVERSITY SCHOOL OF MEDICINE

Georgetown University Medical Center is seeking a nationally known academic Physiologist to Chair the Department of Physiology and Biophysics. The department maintains active research programs in broad areas of physiology (cardiovascular, endocrine, neuroscience, and renal) utilizing cellular, molecular, and integrative approaches. In addition, the department has a strong, nationally ranked graduate program leading to both the M.S. and Ph.D. degrees.

The ideal candidate will have a Ph.D., M.D., M.D.-Ph.D., or similar terminal degree, and should possess an outstanding record of research and scholarly achievements, and demonstrate leadership ability to manage and mentor a diverse group of scientists and to oversee the fiscal affairs of a department. The candidate should also be knowledgeable about the current trends in the education of medical and graduate students.

Review of applications will commence on October 30, 1998, and will continue until the position is filled. Candidates should send a letter of interest stating their qualifications for this position and a copy of their curriculum vitae to:

Raymond L. Woosley, M.D., Ph.D.  
Chair, Physiology and Biophysics Search Committee  
Georgetown University School of Medicine  
3900 Reservoir Road N.W.  
Washington, DC 20007

Georgetown University is an Affirmative Action/Equal Opportunity Employer. Georgetown University encourages applications from qualified women and minorities.

### FACULTY SEARCH DEPARTMENT OF MOLECULAR GENETICS AND CELL BIOLOGY

The Department of Molecular Genetics and Cell Biology at the University of Chicago invites applications for tenure-track positions in the areas of molecular, cell, or developmental biology. We are seeking candidates at the **ASSISTANT PROFESSOR** level who have strong potential for innovative and high-impact research. Successful candidates will receive newly renovated laboratory space, ample start-up funds, and join a dynamic department with a multidisciplinary program of graduate education.

By December 1, 1998, applicants should send a curriculum vitae, reprints, statement of research accomplishments and proposed work, and names of three references to: Faculty Search, c/o Dr. Harinder Singh, Department of Molecular Genetics and Cell Biology, The University of Chicago, 920 East 58th Street, Chicago, IL 60637-1474.

## POSITIONS OPEN

### FACULTY POSITION ECOLOGY AND EVOLUTION

The Department of Biological Sciences at the University of Pittsburgh seeks an outstanding, full-time, tenure-track faculty colleague in ecology or ecology-related fields to join our interactive, expanding Ecology and Evolution Group (six new hires in the past five years). The position is to begin September 1999, subject to budgetary approval, and will be offered at the **ASSISTANT PROFESSOR** level. Experienced candidates with outstanding records may be considered at higher rank. Information about our program, our department, and our field station, The Pymatuning Laboratory of Ecology, can be found at our [website: http://www.pitt.edu/~biohome/main.htm](http://www.pitt.edu/~biohome/main.htm). The successful candidate must have a Ph.D. and postdoctoral experience. He or she will be expected to establish an extramurally funded research program, train graduate students, and participate in undergraduate education. Applications must be received by December 14, 1998, to ensure full consideration. Applicants should send a curriculum vitae, summary of research interests and goals, up to three reprints, and arrange to have at least three letters of recommendation sent to:

Dr. Susan Kalisz, Chair  
Ecology Search Committee  
Department of Biological Sciences  
University of Pittsburgh  
Pittsburgh, PA 15260  
Telephone: 412-624-4281  
E-mail: [kalisz@pop.pitt.edu](mailto:kalisz@pop.pitt.edu)

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

### TWO FACULTY POSITIONS AVAILABLE

The Department of Biochemistry and Molecular Biology and the Institute for Genetic Medicine (IGM) at the University of Southern California (USC) School of Medicine in Los Angeles, California, has openings for two exceptional new Investigators at the **ASSISTANT PROFESSOR** level (tenure-track). Candidates should have a Ph.D. or M.D. degree with at least two years of postdoctoral experience and an exceptional publication record. We are seeking individuals who apply modern molecular techniques to the investigation of fundamental problems in the biomedical sciences. We wish to complement the IGM's existing faculty who have research interests in genetics and molecular genetics of cancer, cellular differentiation, mammalian development, and gene therapy. The appointment includes competitive salaries and generous start-up packages funded in part by a grant from the Howard Hughes Medical Institute and new research space in the dynamic and newly remodeled state-of-the-art interactive IGM Collaboratories. Candidates should forward their curriculum vitae, three letters of recommendation, two or three representative research publications, and a brief statement of future research plans to: Dr. Laurence Kedes, Director, Institute for Genetic Medicine, University of Southern California School of Medicine, 2050 Alcazar Street, Los Angeles, CA 90033. The University of Southern California is an Equal Opportunity/Affirmative Action Employer.

### ASSISTANT PROFESSOR OF PLANT-ANIMAL INTERACTION

The Department of Biology at Virginia Polytechnic Institute and State University (Virginia Tech) invites applications for a tenure-track, Assistant Professor position concerned with plant-animal interaction, beginning August 1999. We are especially seeking candidates willing to interface with faculty in our department who have established research programs in the fields of ecology, physiology, and evolution. Applicants should have postdoctoral experience and background in the biology of plant-animal interactions. The successful candidate will be expected to develop a competitive research program and participate in undergraduate and graduate teaching. A letter of application, curriculum vitae, statement of both research and teaching goals, and letters from three references should be received by January 8, 1999. Correspondence should be addressed to: Dr. E. T. Nilsen, Search Committee Chair, Department of Biology, Virginia Tech, Blacksburg, VA 24061-0406. E-mail: [enilsen@vt.edu](mailto:enilsen@vt.edu). Virginia Tech has a strong commitment to increasing the diversity of the faculty and seeks a broad spectrum of candidates including women, minorities, and people with disability. Individuals with disability desiring accommodations in the application process should notify: Dr. Nilsen, Telephone: 540-231-5674 or 1-800-828-1120 by the application deadline.

## POSITIONS OPEN

### FACULTY POSITION IN ENVIRONMENTAL SCIENCE

The Environmental Science Department at Barnard College, Columbia University, in collaboration with the Chemistry Department, is seeking a full-time **ASSISTANT PROFESSOR** with specialization in environmental, organic, or analytical chemistry, or organic geochemistry. Preference will be given to individuals with experience in ecological exposure and risk assessment of organic contaminants, or in the use of natural organic biomarker compounds or molecular biology methods in the study of biogeochemical processes.

Teaching responsibilities include lectures and laboratories, including organic chemistry. Applicants should demonstrate commitments to undergraduate teaching, establishment of research program with a strong experimental component, and direction of student research. Barnard is an independent undergraduate college for women affiliated with Columbia University. Opportunities are available for collaborative teaching and research with Columbia University's Department of Earth and Environmental Sciences, as well as its Lamont-Doherty Earth Observatory and new Environmental Molecular Sciences Institute.

Ph.D. required; postdoctoral research and prior teaching experience desirable. Submit curriculum vitae, statements of research and teaching experience and plans, two representative publications, and three letters of recommendation to: Prof. Stephanie Pfirman, Department of Environmental Science, Barnard College, 3009 Broadway, New York, NY 10027-6598. The Search Committee will begin reviewing applications on January 6, 1999. Barnard College, an Equal Opportunity/Affirmative Action Employer, particularly encourages applications from women and members of minority groups.

### FACULTY POSITIONS ELIZABETHTOWN COLLEGE

Elizabethtown College invites applications for two tenure-track positions to begin fall 1999. Microbiology, **ASSISTANT PROFESSOR**. Candidates must be broadly trained, possess a Ph.D., and have a commitment to undergraduate teaching and the development of a research program with significant student involvement. Responsibilities include teaching courses in introductory and advanced microbiology, participation in introductory biology, assisting in the development of a BioTechnology Program, and academic advising. Grant writing experience is desirable but not necessary. Strong molecular and statistical background and industrial experience are pluses. Deadline for initial screening of applications: December 1, 1998. Applications should include a summary of teaching and research interests. Organic chemistry, **ASSISTANT PROFESSOR**. A Ph.D. in chemistry is required. Applicants should have a strong commitment to undergraduate learning. The successful candidate will have teaching responsibilities for organic chemistry at the introductory and advanced levels and will be expected to establish an enthusiastic and vigorous undergraduate research program that complements existing areas. Additional strength in biochemistry or molecular modeling is desirable. Deadline for applications is November 16, 1998. To apply, send letter of application, curriculum vitae, and names and contact information of three references to: Nancy E. Florey, Director of Human Resources, Elizabethtown College, One Alpha Drive, Elizabethtown, PA 17022. E-mail: [floreyne@acad.ectown.edu](mailto:floreyne@acad.ectown.edu). Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF MICHIGAN SCHOOL OF DENTISTRY

The Department of Biologic and Materials Science at the University of Michigan School of Dentistry invites applications for a tenure-track position at the level of **ASSISTANT PROFESSOR**. Applicants should have an active and ongoing research interest in the study of oral sensory mechanisms. The ideal candidate should have a record of publications in these areas, should have potential to generate significant external research funding and to teach in the area of neuroscience in the dental curriculum. A Ph.D. (or equivalent) is required; a D.D.S. with significant postdoctoral research experience is desired. Please send a current curriculum vitae with names and addresses of five references to: Dr. Robert M. Bradley, Chair of the Search Committee, Department of Biologic and Materials Sciences, School of Dentistry, The University of Michigan, Ann Arbor, MI 48109-1078. Application deadline: November 30, 1998. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

## PREDOCTORAL FELLOWSHIP PROGRAM IN MOLECULAR THERAPEUTICS

This is a unique program within the Graduate Program of Molecular Genetics and Microbiology of the Graduate School of Biomedical Sciences of UMDNJ (Piscataway Division at Robert Wood Johnson Medical School, Piscataway, NJ) to train students in an interdisciplinary industry/university environment. This program is a collaboration of one of New Jersey's premier academic institutions and Novartis, one of the largest life sciences companies in the world. The program will provide predoctoral students an integrated research training experience at UMDNJ and at the Novartis Research Institute for Biomedical Research.

The program encompasses cutting-edge research in areas including cell cycle regulation, transcriptional control, signal transduction, cell-cell interactions, structural biology, functional genomics and NMR spectroscopy with applications to transplantation, oncology, cardiovascular disease, arthritis, lipid metabolism, gene and stem cell therapy. It is ideal for highly motivated and innovative students who have obtained a Bachelor's degree with a strong academic record and who plan an academic or industrial career.

Please send inquiries to **Dr. Sidney Pescka, Department of Molecular Genetics and Microbiology, UMDNJ-Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5665**. Final applications are due by March 15, 1999. Applications and information about the graduate program can be found at <http://www2.umdj.edu/mgm/grad.html>.



### HOLLAND LABORATORY VASCULAR BIOLOGY

The American Red Cross is currently taking applications for a faculty position in the Department of Vascular Biology. The successful candidate will be expected to: establish an independent basic research program that complements existing department programs. These include identifying and characterizing growth factor-regulated genes, studying the molecular basis for the angiogenic response, investigating the structure and biology of LDL receptor family members and characterizing the role of integrins in facilitating the response of leukocytes to inflammation. You will also be asked to serve as a mentor to graduate students through a program with nearby George Washington University, and obtain extramural funding after an initial period of support. We are particularly interested in candidates that are using animal models to investigate mechanisms of cardiovascular disease.

Applicants should send a curriculum vitae, a brief statement of research interests, and three letters of reference to: **Vascular Biology Search Committee, Dept. of Vascular Biology, Jerome Holland Laboratory, American Red Cross, 15601 Crabbs Branch Way, Rockville, MD 20855**. Review of applications will begin immediately and continue until the position is filled.



**American  
Red Cross**

### MAYO FOUNDATION FOR RESEARCH AND EDUCATION DIRECTOR OF RESEARCH COMPUTING FACILITY



The Mayo Clinic at Rochester, Minnesota (<http://www.mayo.edu>) is seeking a Director of the Mayo Research Computing Facility. This is a full-time professional position, with a competitive compensation and benefits package.

The Research Computing Facility (<http://www.mayo.edu/research/ref>) is a core component of the Mayo Clinic research infrastructure that provides information technology (IT) services to the diverse Mayo research community, including expert consulting to provide optimal IT solutions, innovative technological guidance and development, and infrastructure support. The Research Computing Facility staff collaborates with investigators from almost every medical and research specialty. The director will work closely with research faculty while managing a large and diversified technology group, providing vision and guidance to enable innovative computing support for the research community. The director will provide leadership with the ability to assess appropriate technologies beneficial to researchers. Knowledge of bioinformatics is preferred, with the ability to introduce bioinformatics advancements into the research environment. The director will interact with institutional leadership regarding integration of clinical and research IT environments.

The Mayo Foundation includes "not-for-profit" clinic and hospitals staffed by nearly 2,000 physicians and scientist, as well as medical and graduate schools, with an annual research budget exceeding \$125 million. Its primary location is in Rochester, Minnesota (<http://www.rochesterusa.com>), approximately one hour from the Minneapolis/St. Paul metropolitan area. Rochester has excellent schools, a cosmopolitan cultural atmosphere, growing economy, clean environment, and has been rated one of the best places to live in the USA by Money Magazine.

Candidates should have a Ph.D. in Computer Science, Bioinformatics, or a closely aligned quantitative science, with significant professional experience in management and leadership in a research or clinical environment, as well as demonstrated knowledge of technological advancements. Excellent communications skills are essential. Review of application materials will begin December 31, 1998, and will continue until the position is filled. Potential applicants for this position should submit their curriculum vitae or résumé to:

**Daniel J. Schaid, Ph.D.**  
Harwick 7  
Mayo Clinic  
200 First Street S.W.  
Rochester, MN 55905

E-mail: [schaid@mayo.edu](mailto:schaid@mayo.edu) Fax: (507) 284-9542

*Mayo Foundation is an Affirmative Action and Equal Opportunity Employer and Educator.*

## POSITIONS OPEN

### FACULTY POSITION IN BIOLOGY

The Biology Program of Claremont McKenna, Pitzer, and Scripps Colleges of The Claremont Colleges (see website: [www.jsd.claremont.edu](http://www.jsd.claremont.edu)) seeks a broadly trained **ORGANISMAL BIOLOGIST** to fill a tenure-track position at the **ASSISTANT PROFESSOR** or more advanced level to begin September 1999. Preference given to candidates with interests in the physiology or anatomy of animals or plant physiology. Teaching responsibilities will include introductory biology and a laboratory course in the area of specialization. Interest in developing courses for non-science majors is desirable. Supervision of undergraduates in research is expected. A Ph.D. degree, prior teaching experience, and a record of scholarly publication are required.

Send a curriculum vitae, a statement of teaching interests and philosophy, and a statement of research interests to: Dr. Newton Copp, W. M. Keck Science Center, 925 North Mills Avenue, Claremont, CA 91711. E-mail: [ncopp@jsd.claremont.edu](mailto:ncopp@jsd.claremont.edu). Arrange to have three letters of recommendation sent to the same address. Review of applications will begin November 30, 1998, and continue until the position is filled.

*In a continuing effort to enrich its academic environment and provide Equal Educational and Employment Opportunities, The Claremont Colleges actively encourages applications from women and members of historically underrepresented social groups in higher education.*

Montana State University invites applications for a tenure-track position in any aspect of microbial ecology/evolution. The successful candidate will establish a nationally recognized and funded research program utilizing the techniques of molecular biology, biochemistry, genomics, classical microbiology, or other approaches, and will achieve excellence in teaching undergraduate and graduate students in general microbiology and microbial ecology/evolution. Required: Doctoral degree in an appropriate discipline and postdoctoral research training. Appointment at the **ASSISTANT PROFESSOR** level is anticipated; exceptional candidates at higher levels will be considered. Information, including additional required qualifications, may be obtained on the website: [www.montana.edu/msuinfo/jobs/faculty](http://www.montana.edu/msuinfo/jobs/faculty) or Telephone: 406-994-2903; FAX: 406-994-4926. Review begins November 23, 1998. Applicants should send a letter of application, curriculum vitae, representative publications, statements of teaching and research interests, and three professional references to: **Microbial Ecology/Evolution Search Committee, Department of Microbiology, Montana State University, Bozeman, MT 59717-3520.**

**PLANT BIOLOGIST.** The Biological Sciences Department of DePauw University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level beginning in the fall of 1999. We are seeking a broadly trained Plant Biologist to participate in teaching the introductory series, develop and teach upper-level courses in his/her area of specialty, participate in the senior seminar, serve as an effective undergraduate advisor, and develop a research program that involves undergraduates in a liberal arts setting. Funds for initiating a research program will be provided. Candidates for the position should have a Ph.D. and should submit curriculum vitae, three letters of recommendation, transcripts, and a statement of teaching philosophy and research interests to: **Search Committee, Department of Biological Sciences, DePauw University, Greencastle, IN 46135.** Deadline for receiving application materials is January 8, 1999. *DePauw University is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minorities.*

Penn State. Two **ASSISTANT PROFESSORS** (tenure-track) are sought for the Department of Biobehavioral Health in the College of Health and Human Development beginning in the fall of 1999. Areas of research are open but could include cardiovascular health, health promotion and disease prevention, epidemiology, and alcohol, tobacco, or other drug use. Candidates need qualifications in biological, behavioral, or health promotion and disease prevention aspects of a substantive health-related area and a strong multidisciplinary orientation. Send letter of application, curriculum vitae, two to three sample publications, and the names of three referees by December 1, 1998, to: **Biobehavioral Search Committee, Penn State, E315 Health and Human Development, Box SCI, University Park, PA 16802.** *Penn State is committed to Affirmative Action/Equal Opportunity and the diversity of its work force.*

## POSITIONS OPEN

### FACULTY POSITION IN CELL BIOLOGY

The Department of Biology at Georgia State University invites applications for an anticipated tenure-track position in cell biology. We are particularly interested in individuals whose research complements existing departmental research strengths and who utilizes both cellular and molecular approaches. Applicants at the **ASSISTANT PROFESSOR** level will be expected to establish a vigorous, independent, externally funded research program. Applicants at more **SENIOR** levels should have established, externally funded research programs. The department has a large and active research faculty and provides excellent research and core facilities. (See website: <http://www.gsu.edu/~wwwbio>.) The successful candidate will be expected to participate in the instruction of cell biology at the undergraduate and graduate (M.S./Ph.D.) levels. Applications should include a curriculum vitae, reprints of recent papers, at least three letters of recommendation, and a statement of future research goals. Review of applications will begin December 1, 1998, and continue until the position is filled. Send applications to: **Dr. Margo A. Brinton, Chair of Search Committee, Department of Biology, P.O. Box 4010, Georgia State University, Atlanta, GA 30302-4010.**

### FACULTY POSITION IN NEUROENDOCRINOLOGY/ NEUROPHARMACOLOGY

The Department of Biology at Georgia State University invites applications for an anticipated tenure-track position. We are particularly interested in individuals who have background in areas such as neuroendocrinology or neuropharmacology and who employ molecular and cellular approaches to the study of how neurochemical signals regulate behavior. The successful candidate appointed at the **ASSISTANT PROFESSOR** level will be expected to establish a vigorous, independent, externally funded research program. Applicants at more **SENIOR** levels should have an established, externally funded research program. The successful candidate will be expected to participate in the instruction at the undergraduate and graduate levels. The Department has a large and active research faculty, excellent research and core facilities, and M.S. and Ph.D. training programs (see website: <http://www.gsu.edu/~wwwbio>). Our expanding program in neuroscience includes two interdisciplinary Centers focused on neuroscience research and has outstanding research facilities in molecular, cellular, systems, and behavioral neuroscience. Applicants should include a curriculum vitae, reprints of recent papers, at least three letters of recommendation, and a statement of future research plans. Send application to: **Dr. Elliott Albers, Chair of Search Committee, Department of Biology, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010.** Review of applications will begin December 1, 1998, and continue until the position is filled. *Georgia State University, a Unit of the University System of Georgia, is an Equal Employment Opportunity/Affirmative Action Employer.*

### FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF PITTSBURGH

The Department of Pharmacology seeks to fill a tenure-track position at the rank of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Successful applicant must have a Ph.D. and/or M.D. with appropriate postdoctoral research experience. Individuals with an outstanding record of research in pharmacogenomics, drug discovery, signal transduction, or other areas that complement the existing programs in the department (website: <http://www.pitt.edu/~pharmwww>) are encouraged to apply. Send application by January 15, 1999, with curriculum vitae, a statement of research interest, and names of three references to: **Leaf Huang, Ph.D., Faculty Search Committee, Department of Pharmacology, University of Pittsburgh, W1340 Biomedical Science Tower, Pittsburgh, PA 15261.**

Princeton University. The Department of Chemistry invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level from individuals whose research interests are in organic chemistry, broadly defined. More senior appointments could be considered in appropriate cases. Applications should include a description of research interests, a curriculum vitae, and three letters of recommendation. Send by November 30, 1998, to: **Organic Search Committee, Department of Chemistry, Princeton University, Princeton, NJ 08544.** *Princeton University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN

### CHAIR, DEPARTMENT OF BIOLOGY BOSTON COLLEGE, AND HOLDER OF THE DELUCA PROFESSORSHIP IN BIOLOGY

Boston College invites nominations or applications for the position of Professor and Chair of the Department of Biology. The university seeks a Senior Biologist with a distinguished record of scholarly activity, an active internationally recognized program of research, and a commitment to excellence in undergraduate and graduate education to guide the future development and expansion of the department. The Department's present faculty of 19 offer B.S., M.S., and Ph.D. degrees. The Chair will profoundly influence all aspects of the department's development, including the addition of new junior and senior faculty positions. The successful candidate also will be the first holder of the Michael E. and Salvatore A. DeLuca Professorship in biology, established in 1996 with an endowment by Dr. Salvatore A. and Lucy DeLuca. Nominations and applications with appropriate supporting material should be sent to: **M. A. Smyer, Chair, Biology Search Committee, Graduate School of Arts and Sciences, McGuinn 221, Boston College, Chestnut Hill, MA 02167.** Review of applications will begin December 14, 1998, and will continue until the position is filled. *Women and minority group members are encouraged to apply. Boston College is an Affirmative Action/Equal Opportunity Employer, rich in the Jesuit tradition.*

### PHYSIOLOGICAL PLANT ECOLOGIST AA#50-8-33

Full-time, tenure-track **INSTRUCTOR/ASSISTANT PROFESSOR** to begin fall 1999. Bloomsburg University stresses teaching excellence. Ph.D. in plant biology required; training in plant ecology and plant physiology desired. University teaching/research experience preferred. Responsibilities: teach undergraduate courses in introductory biology for majors and non-majors, plant physiology, and ecology; develop an undergraduate or graduate course in area of specialty; develop research involving undergraduate and Master's students. Demonstrated ability to work with diverse populations preferred. Finalists for this position must communicate well, and successfully complete an interview and/or a teaching demonstration. Send letter of application, curriculum vitae, all transcripts, and three letters of reference postmarked no later than 15 January 1999 to: **Dr. George Chamuris, Chair of the Search Committee, Biological and Allied Health Sciences, Bloomsburg University, Bloomsburg, PA 17815.** Visit our website: [www.bloomu.edu/jobs.html](http://www.bloomu.edu/jobs.html).

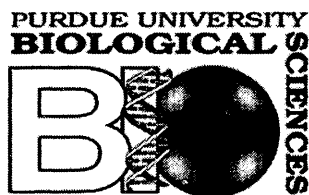
### ASSISTANT PROFESSOR VASCULAR PLANT SYSTEMATICS

Faculty position (nine-month, tenure-track). Responsibilities include teaching biology, botany, plant taxonomy, and graduate-level systematics; directing student research (B.S., M.S.); curating herbarium. Basic qualifications: Ph.D., training/ability to conduct research in plant systematics and to teach above courses. Teaching and postdoctoral experience, ability to pursue funding, knowledge of flora of eastern United States, and use of molecular techniques are desirable qualifications. Details at website: <http://bioweb.wku.edu/>. Send statements of teaching and research interests, curriculum vitae, and three letters of recommendation to: **Search Chair, Department of Biology, Western Kentucky University, Bowling Green, KY 42101-3576.** Applications received by January 8, 1999, will have preference.

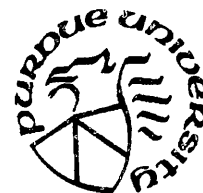
*Affirmative Action/Equal Opportunity Employer.*

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT/ASSOCIATE PROFESSOR**, for the Department of Medicine, Division of Cardiology. M.D. degree, Board-certified/Board-eligible for clinical cardiology EP. Full-time position with inpatient responsibilities including arrhythmia consults, invasive electrophysiology studies, radiofrequency ablation, tilt table testing, and permanent pacemaker implantation; also expected to conduct clinical or basic research in electrophysiology or pacing and to compete for extramural funding. Salary and benefits commensurate with experience. Recruiting deadline November 20, 1998. Anticipated starting date December 14, 1998. Please reply with curriculum vitae to: **Anne B. Curtis, M.D., Professor, Division of Cardiology, Box 100277 JHMC, Gainesville, FL 32160.** *Affirmative Action/Equal Opportunity Employer.*



**Faculty Positions**  
**Molecular Biology of Cancer**  
**Microbial Pathogenesis**  
**Purdue University**  
**Department of Biological Sciences**



The life sciences programs, including the Department of Biological Sciences, will be hiring a substantial number of tenure-track faculty in the next few years. These appointments can be at the assistant, associate, or full professor level and will include highly competitive compensation packages, attractive research space, and excellent start-up packages. Successful candidates should have a Ph.D. in an appropriate discipline, significant postdoctoral experience, and are expected to develop a vigorous, extramurally funded research program and to participate actively in the teaching program of the department. The Purdue Cancer Center has been awarded a large grant from the Walther Cancer Institute to enhance our strong program in cancer biology; we have won a major genomics grant from NSF, and we participate in 4 NIH or NSF predoctoral training grants. The department has been awarded a 4-year, \$1.6 M Undergraduate Initiative grant from the HHMI and we also seek applicants who have an interest in combining teaching, teaching scholarship, and research. Applicants should send a curriculum vitae, a statement of research and teaching experience and goals, and should request that letters of recommendation from at least three referees be sent directly to: (Cancer or Microbial Pathogenesis) Search Committee, Dept. of Biological Sciences, Purdue University, Lilly Hall of Life Sciences, West Lafayette, IN 47907-1392. Review of candidates will begin on December 1, 1998, and continue until the positions are filled.

**Molecular Biology of Cancer emphasizing mammalian systems.** Cancer Center Walther Investigator. Applicants should have a research program that is focused on aspects of cancer genetics using molecular approaches in a mammalian system. Of particular interest are individuals using transgenic and knockout strategies in the mouse to investigate mechanisms of transcriptional control, tumor suppressor/oncogene function, or differentiation strategies aimed at tumor suppression. The successful candidate will participate in one of three program areas within the NCI-designated Purdue Cancer Center.

**Microbial Pathogenesis.** We are interested in expanding our capability in microbial pathogenesis and we are especially interested in research involving an animal or tissue culture model of an invasive or intracellular bacterial pathogen. We also invite applicants in the area of eukaryotic microbial pathogenesis—the study of protozoal and fungal pathogens. We are especially interested in scientists studying the molecular basis of pathogenicity, genomics, intracellular trafficking of microbes, the use of model barriers for studying infection and cellular entry, and membrane dynamics.

*Purdue University is an Equal Opportunity/Affirmative Action Employer.*

**CHATHAM COLLEGE**  
**HEAD: DIVISION OF SCIENCE**

Chatham College invites applications and nominations for the position of Head of the Division of Science.

Chatham College is home to 1,000 undergraduate and graduate students in the Shadyside area of Pittsburgh. Chatham is a private, selective, fully accredited, nonsectarian institution, offering baccalaureate degrees only to women. Master's degrees are offered to women and men.

Chatham College is organized into four academic divisions, including the Division of Science. The Division is composed of several departments and associated programs including Biology, Chemistry, Physics, Environmental Studies/Science, Mathematics, and Computing. The Division Head position is a full-time, 12-month appointment. All Division heads report directly to the Vice President for Academic Affairs. Tenure is negotiable.

Responsibilities include the ability to lead the Division in its continuing development of programs; promotion faculty research and scholarly activities, including support and leadership for undergraduate research; guiding the processes of hiring and evaluating faculty for tenure and promotion; providing oversight of instrumentation and facilities; oversight and administration of the divisional budget; cooperation with the Rachel Carson Institute in the development of environmental initiatives; limited teaching in an appropriate area of expertise; and a member of the Vice President's Council and Executive Committee of the College.

Qualifications include: Ph.D. or terminal degree in Biology, Chemistry, Environmental Science, Mathematics, or closely related fields; evidence of a strong academic record and excellence in teaching and scholarship; experience with faculty evaluation, faculty development, and external funding; evidence of appropriate administrative experience, including budget management and excellent interpersonal skills; and the ability to work cooperatively and positively with all constituents.

Interested candidates should submit a letter of application; a curriculum vitae; a statement of teaching, administrative, and research philosophy. Candidates should also include a list of names, addresses, and phone numbers of persons who may be contacted as references, and at least three of these should send confidential letters addressing the candidate's qualifications for this position. The anticipated date of appointment is July 1, 1999. Chatham College, Job # 292, Human Resources, Woodland Road, Pittsburgh, PA 15232.

**Laboratory of Biophysical Chemistry**  
**National Heart, Lung, and Blood Institute**  
**National Institutes of Health**  
**Bethesda, MD**

**Postdoctoral Fellowships Available**

**The Structural Biophysics Section (Dr. J. Ferreril, PI)** seeks candidates for a fellowship position in protein expression and purification as part of its ongoing research in structure and function of eukaryotic transcription factor proteins. Preferred candidates would have broad experience in recombinant gene expression in *E. coli*, PCR methodology, construction of fusion target genes, chromatographic and electrophoretic techniques, protein folding protocols, and general biophysical methods of characterization of biological macromolecules.

**The Computational Biophysics Section (Dr. B. Brooks, PI)** seeks candidates for a fellowship position in computational chemistry. Broad experience in the use or development of macromolecular simulation and modeling techniques or in the use and development of quantum chemistry techniques, with an interest in applying such methods to the study of macromolecular function, is required.

Candidates must have an earned Ph.D. in a relevant science within the last five years. Please send C.V., three letters of reference, and pertinent reprints to either

**Dr. James A. Ferretti, NHLBI, Bldg. 3 Room 412, NIH, Bethesda, MD 20892-0380. Fax: (301) 402-3405. E-mail: [jafer@helix.nih.gov](mailto:jafer@helix.nih.gov), or to**

**Dr. Bernard R. Brooks, NHLBI, Bldg. 12A Room 2041, NIH, Bethesda, MD 20892-5626. Fax: (301) 496-2172. E-mail: [brbrooks@helix.nih.gov](mailto:brbrooks@helix.nih.gov).**



## POSITIONS OPEN

Two faculty positions, plant ecology, and surface processes and tectonics, Lehigh University. The Department of Earth and Environmental Sciences (EES) invites applications for two tenure-track positions at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**.

For the first position, we seek a Plant Ecologist with interests in ecosystem-level studies that link modern processes to the record of environmental change. Ability to interact constructively with department foci in surficial processes, geochemistry, and limnology is desired. For the second position, we seek a Geomorphologist with broad interests in the coupling between surface and tectonic processes. We are interested in an individual with expertise in erosional and depositional processes or in landscape evolution, who might apply their expertise over a range of scales to complement not only our interests in tectonics but also foci in surficial processes, record of environmental change, and ecosystems.

For both positions, quantitative strength and experience in modeling, remote sensing, or field studies are desirable. We expect the successful candidates to develop a vigorous externally funded research program, develop an undergraduate course in the general area of plant ecology (Ecologist) or sedimentation and the sedimentary record (Geomorphologist), as well as courses in his/her specialty to complement our curriculum.

These tenure-track positions begin August 1999. To receive full consideration, applicants should submit by December 15, 1998, a letter of application, curriculum vitae, statement of research and teaching interests, up to three reprints, and three letters of reference to: **Peter Zeitler, Chair, Department of Earth and Environmental Sciences, 31 Williams Drive, Lehigh University, Bethlehem, PA 18015**. For further information about the EES Department, see website: <http://www.lehigh.edu/~inees>.

*Lehigh University is committed to recruiting and retaining women and minorities.*

### PLANT MOLECULAR GENETICIST THE OHIO STATE UNIVERSITY

A tenure-track position at the **ASSISTANT PROFESSOR** level is available in the Department of Horticulture and Crop Science at the Ohio Agricultural R&D Center, Wooster Campus. The position will involve mainly research; teaching of one graduate-level course is expected. The successful applicant will be expected to develop a nationally competitive research program in molecular genetics relating to plant/microbe or plant/insect interactions. There is a significant opportunity for interaction with other faculty working on molecular mechanisms of gene expression, plant cell and developmental biology, plant-microbe interactions, and application of basic knowledge for crop improvement. Applicants must have a Ph.D. and postdoctoral experience. Competitive salary and start-up funds will be provided.

Applicants should forward a curriculum vitae, including a summary of research interests, and three letters of references to: **Dr. John Streeter, Search Committee Chair, Department of Horticulture and Crop Science, The Ohio State University/Ohio Agricultural R&D Center, 1680 Madison Avenue, Wooster, OH 44691-4096**. Applications will be accepted until December 28, 1998, or until a suitable candidate is identified. *The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled veterans, and individuals with disability are encouraged to apply.*

### ASSISTANT/ASSOCIATE PROFESSOR OF PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics of Indiana University School of Medicine is seeking applicants for a full-time tenure-track position at the Assistant/Associate Professor level in areas compatible with existing strengths in the department, including signal transduction in the regulation of cell growth and differentiation, cardiovascular physiology, endocrinology, and respiratory biology. Strong preference will be given to individuals who use modern cellular or molecular approaches to address physiological questions in these areas. Candidates must have a doctorate and at least three years of postdoctoral experience. Please send (1) curriculum vitae, (2) a concise statement of research interests and future research plans, (3) up to three representative reprints, and (4) letters from at least three, but not more than five, references by January 15, 1999, to: **Chair of Search Committee, Department of Physiology and Biophysics, MS 376, Indiana University School of Medicine, 635 Barnhill Drive, Indianapolis, IN 46202-5120**. *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

## POSITIONS OPEN



### ASSISTANT PROFESSORS OF OPTOMETRY AND VISION SCIENCE University of California, Berkeley School of Optometry

Two tenure-track Assistant Professor positions are being offered for clinicians and/or scientists conducting clinical or basic research related to the eye or vision. Candidates should have an O.D., M.D., or Ph.D. degree, postdoctoral experience (or equivalent), and a strong commitment to excellence in teaching and research. Each successful applicant will be expected to develop an innovative, independent research program that attracts extramural funding, to participate in training graduate students in the Interdisciplinary Vision Science Program, and to teach professional-level courses in the School of Optometry.

Applicants should include a curriculum vitae, names and telephone numbers of three references, and a brief statement (maximum of two pages) of research objectives and teaching interests. Application or letter of intent to apply must be submitted by February 1, 1999, to: **Chair, Faculty Search Committee, School of Optometry, University of California, Berkeley, CA 94720-2020**.

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

The Department of Biology at the State University of New York College at Oneonta invites applications for a tenure-track **ASSISTANT PROFESSOR** position beginning in the fall 1999 semester. Qualifications: A Ph.D. in molecular biology or molecular genetics or related field and a zoological background required. Evidence of ability to teach departmental courses at all levels to students with wide range of interests; ability to integrate computer-based technology into the curriculum preferred. Duties include developing new courses or redesigning existing courses such as molecular biology/genetics, developmental biology, or general physiology, and teaching general biology. To apply, please send a current curriculum vitae, a statement of teaching and research interest, original transcripts, and three letters of recommendation to: **Dr. William J. Pietrafesa, Chair, Search Committee, Department of Biology, Box S, State University College at Oneonta, Oneonta, NY 13820-4015**. Review of applications will begin immediately and will continue until the position is filled. *SUNY Oneonta is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

### IMMUNOLOGY/CELL BIOLOGY

**ASSISTANT PROFESSOR**. Concordia College. A full-time, three-year position, with potential of renewal and/or conversion to tenure track, is available beginning August 1999. The successful candidate will be expected to teach immunology, as well as a second course (preference given to cell biology, microbiology, or parasitology) at the advanced undergraduate level, to participate in teaching introductory biology and to establish an undergraduate research program. A Ph.D. is required and teaching experience is highly desirable. Submit application letter describing professional goals, curriculum vitae, complete transcripts, and three letters of recommendation to: **Dr. Gerald Van Amburg, Department of Biology, Concordia College, Moorhead, MN 56562**. E-mail: [vanambur@gloria.cord.edu](mailto:vanambur@gloria.cord.edu). File review will begin December 1, 1998, and continue until the position is filled. *Concordia College is an Equal Opportunity Employer.*

### ASSISTANT PROFESSOR OF BIOLOGY

Tenure-track position, to teach courses in botany and ecology and develop a viable research program. Ph.D. and postdoctoral experience required. Research specialty should be compatible with existing Ph.D. program in molecular biology. Appointment effective September 1999 or as negotiated. Send application, curriculum vitae, copies of transcripts, and names, addresses, and telephone numbers of at least three references to: **Dr. Fritz Schwalm, Department of Biology, P.O. Box 425799, Denton, TX 76204**. Telephone: 940-898-2351; FAX: 940-898-2382. Screening of applications will begin after December 31, 1998, and continue until the position is filled. Inquire by e-mail: [fschwalm@twu.edu](mailto:fschwalm@twu.edu).

*Texas Woman's University is a state-supported University and is an Equal Opportunity Employer.*

## POSITIONS OPEN

### DEPARTMENT OF MOLECULAR MEDICINE INSTITUTE OF BIOTECHNOLOGY University of Texas Health Science Center at San Antonio

The Department of Molecular Medicine invites applications for three tenure-track positions at the **ASSISTANT PROFESSOR** level and **ABOVE**. We are particularly interested in candidates focusing on carcinogenesis, development, tumor suppressor genes, growth factors, and DNA repair, although outstanding scientists in other fields of investigation are also strongly encouraged to apply. Applicants for the Assistant Professorships should have postdoctoral training and a substantial record of contributions to the peer-reviewed literature. Applicants for more senior positions should have an established research program and extensive experience in training graduate students and Postdoctoral Fellows.

We offer highly competitive salaries and an excellent start-up package including modern laboratory space, funds for personnel and supplies, and state-of-the-art core facilities. Successful applicants will also be appointed faculty in the Molecular Medicine Graduate Program. The city of San Antonio (located just south of the scenic Texas Hill Country) offers an unmatched mix of excellent housing, leisure, and cultural opportunities.

Please send curriculum vitae, reprints of three representative publications, a one-page statement of research accomplishments and objectives, and the names of three or more referees by November 30, 1998, to:

**Patrick Sung, Associate Professor  
Department of Molecular Medicine  
University of Texas Health Science Center  
15355 Lambda Drive  
San Antonio, TX 78245-3207**

For further information about our Department and Graduate Program, please visit our website: <http://www.molecularmedicine.uthscsa.edu>.

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

### RESEARCH ENGINEER MIT

The Center for Space Research is seeking an individual to work in the Department of Chemical Engineering. The project involves the implementation of scientific requirements in the design and development of a Cell Culture Unit, which is being designed to serve as a basis for 10 years of biological research on the International Space Station. Specific project tasks will include technical evaluation of serial prototypes using a variety of cell and tissue cultures, development of operating protocols for ground-based and space studies, and the development and testing of biosensors for oxygen and pH.

Requirements: background in biology or biochemical engineering (Master's degree preferred) and experience in the areas of cell and tissue culture and in the design and operation of laboratory bioreactors. Proficiency with basic software (e.g., Microsoft Word and Excel) required.

Interested candidates should submit a résumé and cover letter referencing Job No. 98-0796R to: **Kenneth Hewitt, MIT Personnel, P.O. Box 391229, Cambridge, MA 02139-0013**. *MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.*

### DEVELOPMENTAL BIOLOGIST UNIVERSITY OF CALIFORNIA, RIVERSIDE

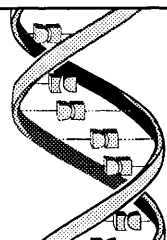
The Department of Biology seeks a Developmental Biologist at the junior (tenure-track **ASSISTANT PROFESSOR**) or senior (tenured **ASSOCIATE** or **FULL PROFESSOR**) level. We seek individuals using cellular, molecular, and genetic approaches to study fundamental mechanisms of development. The successful candidate will join a growing program in developmental biology at University of California, Riverside, establish a vigorous research program, contribute to undergraduate and graduate curricula, and participate in our interdepartmental graduate research unit in cell, molecular, and developmental biology. Applicants must have a Ph.D. degree and two or more years of postdoctoral training; senior applicants must have an established, independent research record of excellence. A curriculum vitae, statement of research interests, copies of relevant publications, and at least three letters of reference should be sent to: **Chair, Developmental Search, Department of Biology, University of California, Riverside, CA 92521** by January 8, 1999, to be assured full consideration. *The University of California is an Equal Opportunity/Affirmative Action Employer.*



**ASSISTANT/ASSOCIATE  
PROFESSOR  
MEDICINAL CHEMISTRY**

The Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, The Ohio State University, invites applications for a tenure-track position in medicinal chemistry at the Assistant or Associate Professor level. Candidates should have a Ph.D. in medicinal chemistry, chemistry, or biochemistry and have postdoctoral experience. Individuals with experience in synthetic medicinal chemistry, structure-based design, and/or biochemical medicinal chemistry are of special interest and are especially encouraged to apply. The successful applicant will be expected to develop an independent research program, obtain extramural funding, and actively participate in teaching at the undergraduate and graduate level. Applicants at the associate professor level are expected to have established an externally-funded independent research program. Applicants should submit a letter of application, curriculum vitae, copy of graduate transcripts, proposed research program, and names of at least three references to: Dr. Robert W. Brueggemeier, Chair, Division of Medicinal Chemistry and Pharmacognosy, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210-1291. Applications will be processed as received and review of candidates will begin November 15, 1998. The search will continue until the position is filled. *The Ohio State University is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women, under-represented minorities, and Vietnam-era veterans.*

**Chrysalis  
DNX  
Transgenic  
Sciences**



A leader in providing Transgenic and Gene Targeting capabilities to the Pharmaceutical, Biotechnology and Genomics industries, has the following opportunities for research professionals at our Princeton, NJ facility:

**Principle Scientist** to manage molecular biology, transgenic and gene targeting research projects. Qualified candidates should have Ph.D. in molecular biology or related field plus 2-5 years post doctoral experience developing and characterizing transgenic and gene targeted animals for the analysis of gene function and the study of human disease. The position requires strong leadership and communication skills in a team environment. Industry experience preferred.

**Research Associate, Molecular Biology** to provide molecular biology support for transgenic and gene targeting projects. Qualified candidates should have a BS or MS in Biology with 5+ years of molecular biology experience. We seek persons with experience manipulating large genomic clones (BAC libraries) and constructing gene targeting vectors. Experience culturing embryonic stem cells would be a plus.

Chrysalis emphasizes an atmosphere of collaboration, intellectual honesty and scientific integrity. We offer an excellent work environment with a competitive benefit compensation package. Please send resume to:

Human Resources Department  
Chrysalis DNX Transgenic Sciences  
301B College Road East, Princeton, NJ 08540  
FAX: (609) 520-9864  
[www.chrysalisintl.com](http://www.chrysalisintl.com)

**MICHIGAN STATE UNIVERSITY  
PLANT SCIENCES**

Michigan State University, as a premier land grant institution, has a long-standing tradition of excellence in all phases of plant science. In order to enhance and expand on these traditions, the leadership at Michigan State University has recently committed to adding six new faculty positions in plant science. In addition, a new campus-wide coordinated system for recruiting outstanding graduate students to plant science programs will be established. The new faculty positions will be located in the Departments of Biochemistry, Botany, and Plant Pathology, Crop and Soil Sciences, Forestry, and Horticulture.

We are currently seeking candidates for three faculty positions that are described in more detail below. We seek candidates with demonstrated research excellence in their respective areas of expertise and who are interested in participating in multidisciplinary research teams created to solve important agricultural problems, both locally and nationally. Michigan State University offers an excellent research environment that includes superb research facilities, outstanding colleagues, and interactions with bright and creative students. The three new positions described below will be available beginning in the fall of 1999, with three additional positions to be added in the next one to two years.

**John A. Hannah Professorship in Plant Genomics.** The first position will be an endowed chair in the area of plant genomics. The departmental home for this position is open and will be finalized based on the interests and expertise of the successful candidate. Candidates should have a proven record of research excellence and a willingness to interact with colleagues in many areas of the plant sciences. The successful candidate will have access to outstanding research facilities and ongoing research support from the endowment. Applications, consisting of a current curriculum vitae, a description of research interests and activities, plus the names and addresses of three references should be sent to: **Hannah Chair Search Committee, Room 106 Plant Biology Building, Michigan State University, East Lansing, MI 48824.** Nominations are also welcome and should be sent to the same address. Applications and nominations should be received by December 18, 1998, to insure full consideration.

**Associate/Assistant Professorship in metabolic engineering.** The Department of Biochemistry at Michigan State University seeks applications for a tenure-track position at the assistant or associate professor level in the area of *genetic engineering of plant metabolism with the objective of developing new plant or plant products.* Applicants must have a Ph.D. and postdoctoral research experience that demonstrates productivity and gives evidence of potential for independent research. The successful applicant will participate in the Departmental Program in Plant Biochemistry, an area of research emphasis within the Biochemistry Department. Other areas of strength in the department include Programs in the Biochemistry of the Cell Nucleus and in Protein Structure, Function, and Design. Thus, the department provides a stimulating environment and areas for collaboration. In addition, the successful candidate will participate in interdisciplinary interactions with plant scientists in other departments and at the MSU-DOE Plant Research Laboratory. The Department of Biochemistry occupies a modern research building with well-equipped research and teaching laboratories and support facilities, and has vigorous undergraduate, graduate, and postdoctoral training programs. Excellent greenhouse space is readily available in close proximity to the Biochemistry Building. Applicants should submit a curriculum vitae and a description of research accomplishments and future interests, and have three letters of recommendation sent on their behalf to **Dr. William L. Smith, Chairperson, Department of Biochemistry, Box DP, Michigan State University, East Lansing, MI 48824-1319.** The Biochemistry Faculty has explicitly endorsed efforts to increase the diversity of its ranks, and, accordingly, candidates from groups currently underrepresented in academic science are encouraged to apply. To ensure consideration, applications should be received by December 8, 1998. Further information about the Department of Biochemistry is available at [www.bch.msu.edu](http://www.bch.msu.edu).

**Assistant Professorship in phytoremediation.** This position will be located in the Department of Crops and Soil Sciences. The successful candidate will develop a strong research program in a fundamental area relevant to phytoremediation. Examples of research areas include uptake and utilization of metals and/or organic pollutants by plants, phytodegradation, and ways to improve phytoremediation traits of plants through plant breeding or molecular techniques. Ph.D. in plant physiology or related area is required. Experience in one or more phytoremediation research areas is desired. The candidate is expected to teach an undergraduate/graduate course in phytoremediation and an advanced course in their specific area of expertise. To assure consideration, applications should be received by January 15, 1999. For information on position and/or applications contact **Dr. Stephen Boyd, Search Committee Chair, Department of Crop and Soil Sciences, Michigan State University, East Lansing, MI 48824-1325.** [e-mail: [boyds@pilot.msu.edu](mailto:boyds@pilot.msu.edu)]

*MSU is an Affirmative Action/Equal Opportunity Institution.  
Disabled persons have the right to request and receive reasonable accommodations.*

## POSITIONS OPEN

### ASSISTANT PROFESSOR MOLECULAR GENETICS DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS Texas A&M University

The Department of Biochemistry and Biophysics at Texas A&M University seeks applications for two tenure-track faculty positions. Applicants for these 12-month appointments must have a Ph.D. and appropriate postdoctoral experience, and will be expected to establish an independent research program. One position will focus on candidates whose research addresses fundamental problems in a well-established genetic system, although applicants with research interests in any area of biochemistry/molecular biology will be considered. Candidates for a second position in bioinformatics/genomic systems will be sought simultaneously (Search Committee Chair is Dr. John Mullet). In addition to research activities, participation in the Department's undergraduate and graduate teaching programs will be expected.

The Department of Biochemistry and Biophysics has more than 40 full-time faculty, 80 graduate students, and 500 undergraduate majors. The Department is housed in a new, spacious, and well-equipped research facility. The research interests of the faculty cover nearly all areas of modern biochemistry and molecular biology (please see website: [www.tamu.edu](http://www.tamu.edu)).

Completed applications should include a curriculum vitae, a short description of research interests, reprints of significant publications, and three letters of recommendation. All materials should be sent to: Dr. Gary R. Kunkel, Faculty Search Committee Chair (Molecular Genetic Systems), Department of Biochemistry and Biophysics, Texas A&M University, College Station, TX 77843-2128. Review of applications will begin December 1, 1998. Texas A&M University is an Affirmative Action/Equal Opportunity Employer, and committed to diversity.

### CELLULAR MOLECULAR PATHOLOGY POSITION

Faculty position as ASSISTANT/ASSOCIATE PROFESSOR of pathology (tenure track) for faculty interested in research in molecular oncology and/or biology of cell growth regulation is available in the Department of Pathology of the University of Pittsburgh School of Medicine. The faculty person to occupy this position is expected to develop a strong research program on the mechanisms of epithelial cell growth with emphasis on growth factors and their receptors, cellular protooncogenes, etc. Preference will be given to established investigators with existing funded programs. The Department of Pathology has many shared resources available to facilitate this research, including banks of human tissues, histologic services, core facilities for molecular biology research, etc. Candidates are also expected to participate in education of graduate students and medical students. Persons with Ph.D., M.D., or M.D.-Ph.D. may apply.

Please submit your curriculum vitae and three names for potential letters of reference to:

George K. Michalopoulos, M.D., Ph.D.  
Professor and Chairman, Department of Pathology  
University of Pittsburgh School of Medicine  
S-410 Biomedical Science Tower  
Pittsburgh, PA 15261  
E-mail: [michalopoulosgk@msx.upme.edu](mailto:michalopoulosgk@msx.upme.edu)

The University of Pittsburgh is an Equal Opportunity Employer.

Senior faculty positions for biological computational sciences in the chemistry, materials science, mathematics, and physics programs at the University of Minnesota, Twin Cities. Applicants must possess a distinguished research record, demonstrated ability in establishing and leading a highly visible research program, and a commitment to teaching and mentoring at the graduate and undergraduate levels. The appointments will be at the rank of ASSOCIATE or FULL PROFESSOR in the following Departments: Chemical Engineering and Materials Science, Chemistry, Mathematics, and Physics. Applicants should submit a curriculum vitae, summary of research accomplishments and plans, and names of at least three references to: Professor Donald G. Truhlar, Chair of the Search Committee, University of Minnesota Supercomputing Institute, 1200 Washington Avenue South, Minneapolis, MN 55415. The search will remain open until the positions are filled. For details see website: [www.msi.umn.edu/cb](http://www.msi.umn.edu/cb).

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

## POSITIONS OPEN



### ASSISTANT PROFESSOR BASIC PHARMACEUTICAL SCIENCES

The Department of Basic Pharmaceutical Sciences of the West Virginia University Robert C. Byrd Health Sciences Center School of Pharmacy invites applications for a 12-month tenure-track position at the Assistant Professor level. Preference will be given to individuals with research interests in one or more of the following areas of the pharmaceutical sciences, including bioanalytical chemistry, drug delivery systems and bioengineering, drug metabolism, pharmacokinetics, biopharmaceutics, or forensic science. The successful applicant will be expected to develop and maintain an extramurally funded research program. A commitment to effective teaching in both the professional and Ph.D. programs is essential. The position requires a Ph.D. degree, postdoctoral experience or equivalent, and an excellent publication record. Review of applications will begin immediately and the search will continue until the position is filled. Applicants should send a curriculum vitae, a letter outlining their research plans, and list of three references to: Dr. Tim Tracy, West Virginia University, Basic Pharmaceutical Sciences, P.O. Box 9530, Morgantown, WV 26506-9530. Website: <http://www.hsc.wvu.edu/sop/>; e-mail: [tttracy@wvu.edu](mailto:tttracy@wvu.edu). An Equal Opportunity/Affirmative Action/ADA Employer.

### TENURE-TRACK ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY

The Moorhead State University Biology Department invites applications for a tenure-track faculty position, at the ASSISTANT or ASSOCIATE PROFESSOR level, to begin August 19, 1999. Qualifications: a Ph.D. with broad training in developmental, cellular, and molecular biology; potential for excellence in undergraduate teaching; research experience; and the ability to utilize computers in teaching and research. Teaching responsibilities: developmental biology, cell and systems physiology, classes for the University's Liberal Studies Program, and laboratory sections in introductory biology classes. Additional responsibilities include participation in the Biotechnology Emphasis and research involving undergraduates. Visit website: <http://www.moorhead.msus.edu/~biology/> for additional information. Send résumé, graduate and undergraduate transcripts, statements of teaching philosophy and research interests, and three current letters of reference to: Dr. Mary A. Shimabukuro, Department of Biology, Moorhead State University, Moorhead, MN 56563. E-mail: [bioldept@mhd1.moorhead.msus.edu](mailto:bioldept@mhd1.moorhead.msus.edu); FAX: 218-236-2168; Telephone: 218-287-5000. Screening of completed applications will begin January 4, 1999, and continue until the position is filled. Moorhead State University is an Equal Opportunity/Affirmative Action Educator and Employer.

### ASSISTANT PROFESSOR DEPARTMENT OF CELL BIOLOGY YALE UNIVERSITY SCHOOL OF MEDICINE

Outstanding candidates whose research interests involve molecular or genetic approaches to any area of cell biology are encouraged to apply. Special consideration will be given to research programs that may interface with the field of membrane traffic, a traditional strength of the Department. The successful candidate will be expected to develop an independently funded research program and to participate in the teaching activities of the Department for graduate and medical students.

The candidate must hold an M.D. and/or a Ph.D. degree(s).

A curriculum vitae, together with a brief statement of current and future research, should be submitted by December 15, 1998. The application should include the names of three individuals who have agreed to send recommendation letters independently.

Applications and recommendations should be sent to:

Pietro De Camilli, M.D., Chairman  
Department of Cell Biology  
Yale University School of Medicine  
333 Cedar Street  
P.O. Box 208002  
New Haven, CT 06520-8002

Yale University is an Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### TENURE-TRACK POSITION IN EPIDEMIOLOGY

The State University of New York at Buffalo invites applications for a tenure-track ASSISTANT or ASSOCIATE PROFESSOR position in epidemiology. Opportunity exists to work with established Investigators in active research programs relating infections, including oral infections, to chronic diseases such as heart disease, diabetes, osteoporosis, and respiratory disease. This individual also will be expected to establish independent research programs and to participate in teaching and service programs of the University. Appointment in the Departments of Oral Biology; Social and Preventive Medicine; or other Departments in the Schools of Dental Medicine and Medicine and Biomedical Sciences may be appropriate.

Requirements for Assistant Professor include a Ph.D., D.D.S., M.D., or other Doctoral degree in the appropriate field, and at least two years of postdoctoral experience resulting in publication in peer-reviewed journals. Associate Professor (tenured) may be appropriate for candidates with significant contributions to published research, continued external research funding, and professional distinction in teaching, mentoring, and service. Appointment to these ranks requires meeting standards established by the University at Buffalo.

Send a curriculum vitae, copies of important publications, research plans for the near future, and the names of three references to: Dr. Frank Scannapieco, Oral Biology Search Committee, University at Buffalo, 3435 Main Street, Foster Hall, Buffalo, NY 14214-3092. See our website: [www.sdm.buffalo.edu/dept.asp?dept=ORB](http://www.sdm.buffalo.edu/dept.asp?dept=ORB). SUNY at Buffalo is an Affirmative Action/Equal Opportunity Employer with interest in identifying minority and women candidates.

### ASSISTANT PROFESSOR DEPARTMENT OF CELL BIOLOGY YALE UNIVERSITY SCHOOL OF MEDICINE

Outstanding candidates whose research interests involve molecular or genetic approaches to any area of cell biology are encouraged to apply. Special consideration will be given to research programs that may interface with the field of membrane traffic, a traditional strength of the Department. The successful candidate will be expected to develop an independently funded research program and to participate in the teaching activities of the Department for graduate and medical students.

The candidate must hold an M.D. and/or a Ph.D. degree(s).

A curriculum vitae together with a brief statement of current and future research should be submitted by December 15, 1998. The application should include the names of three individuals who have agreed to send recommendation letters independently.

Applications and recommendations should be sent to:

Pietro De Camilli, M.D., Chairman  
Department of Cell Biology  
Yale University School of Medicine  
333 Cedar Street  
P.O. Box 208002  
New Haven, CT 06520-8002

Yale University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR of biology. The State University of New York at Potsdam invites applications for a full-time tenure-track position as Assistant Professor of biology effective fall 1999. Responsibilities are to teach cell physiology, general physiology laboratory, and assist with the teaching of general biology. Salary is \$32,500 and the teaching load is 12 contact hours per week. Qualifications include a Ph.D. in an area of biology that would prepare one to teach cell physiology and general physiology laboratory. The successful applicant will demonstrate strong interest and ability to teach undergraduates. A representative from the biology department will be attending the 1998 American Society for Cell Biology meetings, which will be held in San Francisco. The representative will be available for interviews December 12, 13, 14, and 15, 1998, for applicants who are able to attend those meetings. An interview at the Cell meetings is not essential for being considered for the position. Application deadline is December 18, 1998. Send letter of application, curriculum vitae, and the names and telephone numbers of three current references to: Dr. Albert Robinson, Chair, Biology Search Committee, SUNY Potsdam, Potsdam, NY 13676. State University of New York at Potsdam is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

# Tenure-Track Positions Assistant Professor Equivalent

## Neurogenetics

The Division of Intramural Research of the National Institute of Neurological Disorders and Stroke invites nominations and applications to fill two tenure-track research positions in the newly created Neurogenetics Branch headed by Dr. Kenneth Fischbeck. We are seeking exceptional candidates to establish independent and imaginative research programs related to hereditary neurological disease, with a particular emphasis on disease mechanisms at the cellular and molecular level. The applicant's research focus could be on hereditary neuromuscular or neurodegenerative disease. A PhD or MD degree and at least two years of productive postdoctoral research experience are required. Research support (positions, laboratory budget, and space) will be provided by the NINDS. The salary and research resources will be commensurate with the qualifications and experience of the candidate. Applicants should send a *curriculum vitae*, bibliography, statement of research interests, and the names of three references to Dr. Robert Nussbaum, c/o Glenn Hartzoge, NINDS (OE-134), Building 31, Room 8A23, 31 CENTER DR MSC 2540, BETHESDA MD 20892-2540. Applications must be postmarked by December 15, 1998.

## Pharmacokinetics and Pharmacodynamics of Drugs of Abuse in Humans

The Intramural Research Program of NIDA is recruiting for a tenure-track investigator in the area of pharmacokinetics and pharmacodynamics of drugs of abuse in humans. Candidates should have a strong publication record in clinical studies of marijuana, cocaine and other illicit drugs and significant experience in forensic toxicological studies involving drug-testing metabolism. Experience in designing clinical protocols is also important. Experience with gas chromatography and gas chromatography-mass spectrometry is also desirable. Interested candidates should submit a *curriculum vitae* with bibliography, three letters of recommendation and a statement of current and future research plans to NIDA/IRP (OE-134), 5500 Nathan Shock Drive, P.O. Box 5180, Baltimore, MD 21224, Attn: Morgan Dubrow, C-252. Applications must be received by close of business on December 31, 1998.

### WWW Site

Visit the NIH Office of Education web site listing tenure-track positions, postdoctoral positions, and much more. Converse by e-mail with NIH investigators and apply electronically. Find us at <http://www.training.nih.gov>



## National Institutes Of Health

### Office Of Education

<http://www.training.nih.gov>

The NIH is an Equal Opportunity Employer

## VICE PRESIDENT Technology Programs

Our client, specialists in innovative measurement and control solutions, located in the Denver, CO area, seeks an excellent communicator with a strong customer orientation to be their new Vice President of Technology Programs. This leader is a motivator, a coach, trustworthy and a lifelong learner.

This team leader will be responsible for developing program opportunities; managing a group of professionals to ensure creativity, productivity and enthusiasm; managing intellectual property; recruiting and developing a qualified staff; reviewing/supporting proposals & reports; and creating/managing annual budgets by project and cost.

This outgoing person must have both Bachelor's and Master's degrees, at least 15 years' post-Bachelor's work experience, name recognition through patents/publications/etc., and documented financial management success. It is preferred that this highly organized person have a Ph.D., at least 20 years' post-Bachelor's work experience, business unit operations of \$2 - \$10M, experience managing government-funded R&D, and time spent working in industry. Experience with intellectual property management, DOE, and strategic planning are desired.

If you desire to add value for others and achieve high quality outcomes through uncompromising integrity, send a narrative letter about yourself with your current resume to: **Creative-Leadership, Inc.**, (Position Code C111), 11777 Bernardo Plaza Court, Suite 101, San Diego, CA 92128.

## MAKING A WORLD OF DIFFERENCE IN BIOTECHNOLOGY

As a global biotechnology company with revenues in excess of \$300 million, Genencor International develops and markets innovative enzymes and biochemicals that are highly efficient, cost-effective and environmentally sound. Our investment in the future can be seen in our R&D facility in Palo Alto, California, which combines basic research, pilot plant development and robotics under one roof.

### SCIENTIST Directed Evolution

We seek a highly creative individual to join a team focused on the development of new tools for the directed evolution of enzymes and microorganisms. Requires a PhD in Biochemistry or related field. Expertise in any of the following areas would be desirable: enzyme characterization, microbial genetics and physiology, assay development and miniaturization, bioinformatics, and molecular biology.

We are proud to offer our employees a competitive compensation and benefits package, including 3 weeks of paid vacation and a generous 401(k) matching plan plus a retirement plan. For consideration, submit your resume to: Genencor International, Inc., Job Number SCI-37, 925 Page Mill Road, Palo Alto, CA 94304, fax: 650-845-6503, or e-mail: [hr@genencor.com](mailto:hr@genencor.com). Background checks will be conducted. An equal opportunity employer M/F/D/V. Visit our website at [www.genencor.com](http://www.genencor.com).

**GENENCOR**  
INTERNATIONAL®

## POSITIONS OPEN

### TWO BIOLOGY POSITIONS

**ASSISTANT PROFESSOR** positions (tenure-track) are available for a **NEUROBIOLOGIST** and a **DEVELOPMENTAL BIOLOGIST**. The Ph.D. is required and an active research program is expected. The Neurobiologist's teaching responsibilities will include two courses for health science majors (introduction to neuroscience and structure and function of the human body), and an upper-division or graduate course in the candidate's area. Preference will be given to candidates in behavioral, developmental, and molecular neurobiology. The Developmental Biologist's teaching responsibilities will include an elective course in developmental biology, sharing a genetics course, contribution to the freshman curriculum, and opportunity to develop a graduate course in the candidate's area.

The Department of Biology contains 23 faculty, all with doctorates. We serve about 400 majors and 20 graduate students. Multiple computer stations are used in numerous courses, and all faculty have optical fiber access to mainframe, library, and Internet. Conway, a prosperous city of 40,000, contains two other colleges and is an easy drive from both Little Rock and pristine wild areas such as the Buffalo National River and Ozark Mountains.

Application review will begin January 6, 1998, and continue until filled. Submit curriculum vitae, statements of teaching philosophy and research plans, and the names of three references to: **Dr. Paul Hamilton, Department of Biology, University of Central Arkansas, Conway, AR 72035**. It is UCA policy that all positions are contingent upon funding. *UCA is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING AND MATERIALS SCIENCE

Applications are invited for a tenure-track position in the Department of Mechanical Engineering and Materials Science in the general area of biological materials and cell and membrane biomechanics. Applicants should have a Doctoral degree in the engineering and physical sciences and be able to expand and strengthen the directions of research and teaching in the department. Candidates are expected to have an established research program with a proven track record of obtaining competitive external research funding, and will be expected to participate in teaching at both the undergraduate (including a required course) and at the graduate level. We seek an individual with a strong background in physical chemistry, biophysics, and cell mechanics, who will participate in the development of our evolving material science program in soft, wet, and biological materials. A letter of application, curriculum vitae, statement of research interests, statement of teaching interests, and the names of three references should be sent to: **Ms. Katie Rogers, Department of Mechanical Engineering and Materials Science, Box 90300, Hudson Hall, Duke University, Durham, NC 27708-0300**. Review of candidates will begin on November 1, 1998, and will continue until the position is filled. *Duke University is an Equal Opportunity/Affirmative Action Employer.*

### ASSISTANT PROFESSOR

The Department of Zoology at Miami University is seeking to fill a tenure-track position in the area of developmental biology. Yearly teaching duties may include a core undergraduate course in development, an advanced course/seminar, and/or participation in a team-taught introductory biology course. The successful applicant will be expected to maintain an active research program, seek extramural funding, and supervise student research. The Department has excellent research facilities, including state-of-the-art facilities for studies using cellular, molecular, or whole organism techniques. The Department has 34 faculty, over 50 Ph.D./M.S. students, and approximately 1,000 majors. Miami University (enrollment 21,000) is rated among the top 10 most selective public universities nationally based on ACT scores and other academic criteria. Send letter of application, curriculum vitae, statement of teaching and research interests, and three letters of recommendation to: **Dr. Douglas Meikle, Chair, Department of Zoology, Miami University, Oxford, OH 45056**. Review of applications will begin on 1 December 1998, and continue until the position is filled. A Ph.D. is required. Position will begin August 1999. Telephone: 513-529-3100; e-mail: [meikled@muohio.edu](mailto:meikled@muohio.edu); website: [www.muohio.edu/~zoocw](http://www.muohio.edu/~zoocw) for more information. *Miami University offers Equal Opportunity in Employment and Education.*

## POSITIONS OPEN



Anatomy in the tenure track. Applications are invited for the first of two positions at **ASSISTANT PROFESSOR**. Higher ranks may be negotiable. Ideal candidates should have outstanding research training and extramural support for their independent research. Preference will be given to applicants working in basic cell biology, respiratory biology, or neuroscience to support existing strengths in anatomy. Excellent opportunities exist for strong collaborations in such growth areas as the neurobiology program, the West Virginia University centers in cancer biology and PET, and in federal research centers for occupational medicine (CDC) and forensic identification (FBI). Please send applications and supporting documents by November 30, 1998, to: **Dr. Richard Wiggins, Chairman, Anatomy Department, West Virginia University, P.O. Box 9128, Morgantown, WV 26606**.

*WVU is an Equal Opportunity Employer.*

### TENURED POSITION IN BIOCHEMISTRY UNIVERSITY OF WISCONSIN-MADISON

The Department of Biochemistry at the University of Wisconsin-Madison invites applications for a position at the **ASSOCIATE** or **FULL PROFESSOR** (tenured) level or nominations of individuals to fill this position. We are particularly interested in applications from individuals whose research deals with the molecular basis of physiological responses in animals, but applications in all research areas are invited. The University and Department provide an excellent environment for the development of an outstanding research program. The laboratory of the appointed candidate will be housed in a new facility and the position will be partially supported by a substantial endowment. The successful candidate will be expected to continue a vigorous independent research program and participate in the undergraduate and graduate teaching programs of the Department. Applications, including a curriculum vitae, list of publications, and a brief summary of accomplishments and direction of future research, should be sent to: **Professor H. F. DeLuca, Chair, Department of Biochemistry, University of Wisconsin-Madison, 433 Babcock Drive, Madison, WI 53706-1544**. Applications should be received by February 1, 1999, but the search will continue until a suitable applicant is identified. Under Wisconsin Statutes, names, titles, and addresses of applicants may be subject to public release upon request. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.*

### ASSOCIATE OR FULL PROFESSOR BIOCHEMISTRY WESLEYAN UNIVERSITY

The Department of Molecular Biology and Biochemistry invites applications for a position at the Associate or Full Professor level. Researchers using state-of-the-art biochemical approaches in the life sciences are sought. A vigorous research program supported by extramural funds, and excellence in undergraduate and graduate teaching are expected. Please send curriculum vitae, description of research program, and the names of five scientists who can provide letters of reference by January 20, 1999, to: **Biochemistry Search Committee, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175**.

*Wesleyan University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from minority candidates and women.*

**ASSISTANT PROFESSOR**. Biological oceanography. Tenure-track position anticipated September 1999. Postdoctoral and teaching experience desirable. Teaching biological oceanography, marine operations and research, and course in applicant's specialty. Undergraduate research expected. Southampton College (website: [www.southampton.edu](http://www.southampton.edu)) has an outstanding undergraduate marine science program, marine station on campus, well-equipped laboratories, and a 42-foot research vessel. Curriculum vitae, statement of research, teaching philosophy, and three letters of reference by December 31, 1998, to: **Dr. Sandra E. Shumway, Natural Science Division, Southampton College, Southampton, NY 11968**. Telephone: 516-287-8407; e-mail: [sshumway@southampton.liunet.edu](mailto:sshumway@southampton.liunet.edu). *Affirmative Action/Equal Opportunity Employer.*

## POSITIONS OPEN

### BOTANIST AND ECOLOGIST POSITIONS

**ASSISTANT PROFESSORS**. Biological sciences, University of South Alabama (USA). Two tenure-track positions beginning in fall 1999. Ph.D. in biological sciences required; postdoctoral experience desirable. Candidates should have a commitment to undergraduate and graduate teaching and show evidence of participation in extramurally funded research. The main areas of expertise should be plant systematics or field botany for one position and freshwater ecology for the other. For both positions, preference will be given to candidates who work at the organismal level or above. Opportunity for development of graduate courses in the candidates' area of specialization will also be provided. Initial teaching load will be reduced to allow time for required development of a research program. Graduate programs include the M.S. in biology and Ph.D. in marine sciences. The Department of Biological Sciences has 16 full-time faculty and modern research facilities. USA has 12,000 students, eight colleges, many M.S. programs, and five Ph.D. programs. The location is a wooded campus in a mild Gulf Coast environment, including nearby extensive freshwater habitats of the Mobile Tensaw Delta, as well as estuarine and marine locales. See our website for more details, website: [www.usouthal.edu/biology/](http://www.usouthal.edu/biology/). Send a letter of application, curriculum vitae, and names of at least three references to: **Dr. John A. Freeman, Chair, Department of Biological Sciences, University of South Alabama, Mobile, AL 36688**. Telephone: 334-460-6331; FAX: 334-414-8220; e-mail: [jafreema@jaguar1.usouthal.edu](mailto:jafreema@jaguar1.usouthal.edu). Application deadline is December 1, 1998. *Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled.*

Wabash College invites applications for a **BYRON K. TRIPPET ASSISTANT PROFESSORSHIP** in developmental biology. Tenure-track position to start July 1, 1999. Ph.D. and a commitment to excellence in teaching required; teaching experience desirable. Development of a research program involving undergraduates is expected. The Biology Department, with seven full-time positions, encompasses molecular biology, organismal biology, and population biology. The department is well equipped for teaching and research, and plans for a new science facility are in progress. In a two-year cycle, responsibilities include teaching a modern course in developmental biology, a course in the applicant's special area of expertise, and participating in team-taught general biology courses. Periodic contributions to all-college interdisciplinary courses are expected. An endowed fund provides summer research stipend during the first two years, and start-up funds for research are available. Send letter of application, curriculum vitae, brief statements of research interests and teaching philosophy, and three letters of recommendation by December 1, 1998, to: **L. David Polley, Biology Department, Wabash College, P.O. Box 352, Crawfordsville, IN 47933-0352**. Questions may be directed to e-mail: [lpolley@wabash.edu](mailto:lpolley@wabash.edu). Information about the college and the department available at website: <http://www.wabash.edu>. *Wabash College, a liberal arts college for men, encourages applications from women and minorities. Equal Opportunity Employer.*

### MOLECULAR MICROBIOLOGIST UNIVERSITY OF TEXAS AT ARLINGTON

The Department of Biology invites applications for a tenure-track **ASSISTANT PROFESSOR**. Applicants using molecular techniques to investigate physiological or genetic aspects of bacterial-environmental interactions are preferred. However, outstanding candidates in related areas will be considered. The successful candidate must have a Ph.D., and postdoctoral experience is preferred. The appointee will participate in teaching at the undergraduate and graduate levels and is expected to establish a vigorous externally funded research program. Applicants should submit curriculum vitae, selected reprints, a statement of research goals and teaching philosophy, and arrange for three letters of recommendation to be sent to: **Dr. George Stewart, Chairman, Search Committee, Department of Biology, Box 19498, The University of Texas at Arlington, Arlington, TX 76019**. The Department of Biology offers Ph.D. and M.S. degrees as well as B.S. degrees in microbiology, medical technology, and biology. Located in the Dallas/Ft. Worth metroplex, The University of Texas at Arlington is a comprehensive university with about 18,500 students. Application review begins December 1, 1998, and will continue until position is filled. *UTA is an Equal Opportunity and Affirmative Action Employer.*





The Department of Biology at Swarthmore College invites applications for two different 1-year faculty leave replacement positions at the assistant professor level, each beginning September 1999. Applicants should have a Ph.D., teaching experience, and a strong commitment to undergraduate education. All application materials should be received by 18 December 1998.

**ECOLOGY:** Teaching is expected to include general ecology and an advanced undergraduate seminar, both with a strong laboratory/field component, and participation in the Department's team-taught introductory biology course. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. Roger Latham, Ecology Search, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1397.**

**DEVELOPMENTAL BIOLOGY/GENETICS:** Teaching is expected to include intermediate-level courses in general genetics and developmental biology. Interested persons should submit a curriculum vitae, three letters of recommendation, and a statement of teaching and research interests to: **Dr. John B. Jenkins, Professor and Associate Chair, Department of Biology, Swarthmore College, Swarthmore, PA 19081-1397.**

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

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### SQL/LIMS Project Manager

Responsible for managing and implementing a fully computerized laboratory management system (LIMS) in a genetics laboratory. Will work in a challenging work environment with experienced scientists and computer scientists. Requires laboratory experience and some knowledge of PL/SQL. Previous experience with a LIMS project in a genetics laboratory and Oracle PL/SQL is highly desirable. Job #116

Successful candidates will be offered a competitive salary and benefits package, stock options as well as an exciting team environment with emphasis on achievement and career development.



For consideration, please include the job number on your cover sheet and submit a resume to: Human Resources, Paradigm Genetics, Inc., P.O. Box 14528, RTP, NC 27709; or Email: [hr@paradigmgenetics.com](mailto:hr@paradigmgenetics.com) EOE

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Reprogen, a leading biotechnology company in the field of reproductive medicine, is aggressively pursuing discovery of genes responsible for hormonally regulated diseases. Our expertise in novel gene identification, gene regulation and signal transduction makes Reprogen particularly well-equipped to translate gene discoveries into novel diagnostics and therapeutic targets. We currently have immediate openings for:

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## ASSISTANT/ASSOCIATE PROFESSOR (MOLECULAR BIOLOGIST) CENTER FOR MEDICAL EDUCATION BALL STATE UNIVERSITY MUNCIE, INDIANA

The Muncie Center for Medical Education, a regional center for the Indiana University School of Medicine located on the Ball State University campus, invites applications for a tenure-track fiscal-year position at the level of Assistant or Associate Professor available July 1, 1999. Responsibilities include establishing an independent research program in molecular biology; teaching molecular biology; team-teaching biochemistry to first-year medical students. Minimum qualifications: Ph.D. in molecular biology; postdoctoral experience. Salary is negotiable and is commensurate with experience. Start-up funds are available. Send letter of application listing current research activities, curriculum vitae, and the names and telephone numbers of three references to: **Dr. Douglas A. Triplett, Director, Center for Medical Education, Ball State University, Muncie, IN 47306.** Original transcripts will be required before interview. Applications must be postmarked by December 15, 1998. ([www.bsu.edu](http://www.bsu.edu))

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

## ANNOUNCEMENT

### VISIT OUR INTERNET SITE FOR ON-LINE APPLICATIONS

## NIH Undergraduate Scholarship Program (UGSP)

If you would like to be trained and mentored at the cutting edge of biomedical research while receiving scholarship support, the UGSP may be for you!

The UGSP is sponsored by the National Institutes of Health (NIH), the Federal Government's lead biomedical research and research training agency, offering scholarships to qualified individuals to pursue undergraduate life sciences degrees.

Scholarships up to \$20,000 per year support tuition, educational, and qualified living expenses (room, board, transportation) while students pursue an undergraduate degree.

During each year of the award, scholars train for 10 weeks as paid employees in NIH research laboratories. They are assigned to mentors, participate in research seminars and developmental programs. Housing and transportation is provided. After graduation, 1 year of full-time research employment at NIH is required for each year of scholarship support.

### You Should Apply If You:

- Can demonstrate a deep interest in pursuing a career in biomedical research;
- Can demonstrate being from a disadvantaged background;
- Have a GPA of 3.5 or better or are in the top 5 percent of your class;
- Are a U.S. citizen, national, or permanent resident;
- Are enrolled or accepted for enrollment as a full-time student at a qualified accredited institution.

**This is a special opportunity for special students.**



**For more information, contact:**

UGSP

<http://ugsp.info.nih.gov>

e-mail: [ugsp@nih.gov](mailto:ugsp@nih.gov)

Phone: 800-528-7689

TTY: 1-888-352-3001

## POSITIONS OPEN

### UNIVERSITY OF WISCONSIN-GREEN BAY ENVIRONMENTAL SCIENCES PROGRAM

Biodiversity group seeking candidates for two tenure-track **ASSISTANT PROFESSOR** positions in a program emphasizing ecology and conservation biology. (1) **INVERTEBRATE BIOLOGIST**. Teaching responsibilities include invertebrate systematics, conservation biology, and introductory environmental science. Specialization desired in systematics with preference for individuals with experience in ecology. (2) **AQUATIC ZOOLOGIST**. Teaching responsibilities include aquatic ecology, introductory biology, and a graduate course in ecosystem management. Specialization in stream ecology, limnology, ecotoxicology, or ecosystem management.

Applicants must have a doctorate in zoology, biology, ecology, or related area by August 1999. A research program consistent with the interdisciplinary goals of the environmental science undergraduate and graduate Master's programs is expected. Evidence of teaching effectiveness and recent scholarship desirable. Please submit letter of application, curriculum vitae, official transcripts, and three letters of reference to: **Dr. Michael D. Morgan** (Invertebrate Biologist position) or **Dr. Robert W. Howe** (Aquatic Zoologist position), University of Wisconsin-Green Bay, 2420 Nicolet Drive, Green Bay, WI 54311-7001. Website: [www.uwgb.edu](http://www.uwgb.edu); Telephone: 920-465-2265 (Morgan) or Telephone: 920-465-2272 (Howe); FAX: 920-465-2376. Screening begins 7 December 1998. Names of applicants may be disclosed unless requested otherwise. Names of finalists will be released. UWGB is an Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT SCIENTIST/RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Nephrology. Ph.D. degree and have at least five years of postdoctoral research experience in molecular biology, preferably with experience in mammalian gene expression. This position will investigate the regulation of expression and molecular biology to transport enzymes in the kidney. Salary and benefits commensurate with experience. Recruiting deadline November 20, 1998. Anticipated starting date December 14, 1998. Please reply with curriculum vitae to: **Stephen L. Gluck, M.D.**, Professor and Chief of Division of Nephrology, Box 100224, JHMC, Gainesville, FL 32610. Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF FLORIDA

Seeks an **ASSISTANT PROFESSOR** in the Department of Medicine in the Division of Hematology/Oncology. M.D. degree, Board-certified/Board-eligible, in hematology or oncology, have basic and clinical research experience in hematology/oncology. The responsibilities will include research, director of patient care, and teaching of trainees. Salary and benefits commensurate with experience. Recruiting deadline November 20, 1998. Anticipated starting date December 14, 1998. Please reply with curriculum vitae to: **Dean McCarley, M.D.**, Associate Professor, Box 100277, JHMC, Gainesville, FL 32610. Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR**. Statistics, fall 1999. Initial three-year contract may become tenure-track. Ph.D. in statistics or closely related field required. Teaching undergraduates at all levels. Normal teaching load is two courses per term (three terms over academic year); consulting work may substitute for teaching one course per year. See website: [www.lawrence.edu/~peregrip/statpos.htm](http://www.lawrence.edu/~peregrip/statpos.htm). Send curriculum vitae, teaching and research statements, undergraduate and graduate transcripts, and four letters of recommendation (two specifically about teaching ability) to: **Professor Richard Sanerib**, Search Committee, Lawrence University, Appleton, WI 54911 by January 15, 1999. E-mail: [pourciab@lawrence.edu](mailto:pourciab@lawrence.edu). Equal Opportunity Employer.

### MARINE BIOLOGY

**ASSISTANT PROFESSOR**. Invertebrate zoology, marine biology. To teach general biology, invertebrate zoology, marine biology. Research with undergraduates expected. Ph.D. in biology and demonstrated excellence in teaching. Send curriculum vitae, teaching and research philosophy, and three letters of reference to: **Dr. Stockhouse**, Chair, Department of Biology, Pacific University, Forest Grove, OR 97116. Deadline December 7, 1998. For further information website: <http://www.biology.pacificu.edu/hiring.html>.

## POSITIONS OPEN



The Department of Biochemistry at the Faculty of Medicine of the Université de Montréal seeks to fill two **RESEARCHER POSITIONS**. These positions could lead to integration as tenure-track faculty members. This phase of recruitment aims at complementing the expertise of the Department in the following fields:

Structure-function relationship of nucleic acids and/or of protein-nucleic acids interactions.

Transmembrane and/or intracellular signal transduction.

Interested candidates should send their curriculum vitae, a description of their proposed research program, and at least two recommendation letters before November 30, 1998, to: **Dr. Michel Bouvier**, Search Committee Chairman, Department of Biochemistry, Faculty of Medicine, Université de Montréal, P.O. Box 6128, Station Centre ville, Montréal, Québec H3C 3J7 Canada.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Université de Montréal is committed to Equity in Employment.

### ASSISTANT PROFESSOR DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY Medical College of Ohio

Applications are invited for a tenure-track, full-time faculty position from individuals who have a Doctoral degree, postdoctoral experience, and record of research productivity. The successful candidate is expected to develop an independent, extramurally funded research program and participate in teaching.

We are particularly interested in applicants whose research areas include cellular and molecular aspects of host-pathogen interactions at mucosal surfaces.

Competitive salary and start-up funds will be provided. Applicants should submit a statement of research goals with representative reprints, a curriculum vitae, and three letters of recommendation to: **Garry T. Cole, Ph.D.**, Chair, Department of Microbiology and Immunology, Medical College of Ohio, 3055 Arlington Avenue, Toledo, OH 43614-5806. Deadline is December 15, 1998. Visit our website: <http://www.mco.edu:80/micro/index.html>. Affirmative Action/Equal Opportunity Employer.

### UNIVERSITY OF FLORIDA

Seeks a **RESEARCH ASSISTANT PROFESSOR** in the Department of Medicine, Division of Nephrology. Ph.D. Five years of postdoctoral experience: cell and molecular biology or osteoclasts. Responsibilities will involve research and supervise Research Technicians, Residents, and graduate students; also includes teaching responsibilities. Salary and benefits commensurate with experience. Recruiting deadline November 20, 1998. Anticipated starting date December 14, 1998. Please reply with curriculum vitae to: **Dr. Charles Wingo**, Professor, Division of Nephrology, Box 100224 JHMC, Gainesville, FL 32610. Affirmative Action/Equal Opportunity Employer.

Tenure-track biology **ASSISTANT PROFESSOR**. Beginning August 26, 1999. Teaching responsibilities include principles of biology, human biology, and man and the environment. Candidates must have interest and ability in (1) using effective pedagogy that fosters inquiry-based and collaborative learning, (2) using information technology, and (3) designing methods to assess learning. Doctorate and demonstrated undergraduate teaching required. Submit: (1) letter of application, (2) résumé, and (3) letters from five professional references to: **Dr. Bonnie Amos**, Head, Department of Biology, P.O. Box 10890, Angelo State University, San Angelo, TX 76909. Deadline is open but may be closed at any time after December 15, 1998.

A **RESEARCH ASSISTANT PROFESSOR** position is available. Individuals with a background and experience in culture, transfection, and transplantation of spermatogonial stem cells are encouraged to apply. Emphasis is on farm animal species. Send curriculum vitae, names of three references, and a letter describing research background and interests to: **Dr. R. L. Brinster**, School of Veterinary Medicine, University of Pennsylvania, 3850 Baltimore Avenue, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

## POSITIONS OPEN

### ASSISTANT PROFESSOR OF BIOLOGY ENVIRONMENTAL MICROBIOLOGY MARIST COLLEGE

The School of Science invites applications for a tenure-track Assistant Professor position starting in fall 1999. Qualified candidates will have completed a Ph.D. degree, a strong interest in undergraduate education, and a commitment to excellence in teaching. We are especially interested in candidates with previous undergraduate teaching experience. Primary teaching responsibilities include lectures and laboratories in environmental microbiology and related upper-level specialty courses, such as microbial ecology, soil microbiology, aquatic microbiology, or soil science. The successful candidate is also expected to rotate through general microbiology and introductory-level courses for majors and non-science majors, establish a research program involving undergraduates, provide academic advising, and serve on committees. For additional information about the College and the School of Science, please visit our home page at website: [www.marist.edu](http://www.marist.edu). A complete application includes a cover letter, curriculum vitae, statement of teaching philosophy, description of research plans, and three recent letters of recommendation sent directly by your referees. Review of complete applications begins January 5, 1999, and will continue until the position is filled. Please address all application materials to: **Biology Search**, c/o **Dr. Michael G. Tannenbaum**, Dean, School of Science, MPO-905/SCI, Marist College, Poughkeepsie, NY 12601-1387. E-mail: [jfbh@maristb.marist.edu](mailto:jfbh@maristb.marist.edu). Equal Opportunity/Affirmative Action Employer.

### PLANT BIOLOGIST

A tenure-track position beginning August 1999. We seek individuals with a strong commitment to liberal arts education and excellence in teaching, and an active research program that involves undergraduates. We are particularly interested in candidates with a genuine interest and enthusiasm for plant systems and an expertise in either genetics or environmental adaptation, two of the themes in our introductory biology sequence. Teaching responsibilities include a team-taught introductory course for majors, an upper-level course in area of expertise (molecular to physiological ecology), a junior seminar related to some aspect of plant biology, participation in college-wide general education courses that focus on the development of writing and speaking skills, and advising senior research projects. Excellent research and teaching facilities are available, as are start-up research funds. Ph.D. required. Send curriculum vitae, statements of teaching and research interests, and three reference letters to: **Dr. Scott Wissinger**, Biology Department, Allegheny College, Meadville, PA 16335 by November 30, 1998. Women and minorities are strongly encouraged to apply. Allegheny is an Equal Opportunity Employer.

### NEUROETHOLOGY

The Department of Biology, University of Miami, invites applications for a tenure-track position in neuroethology at the level of **ASSISTANT PROFESSOR**. We are looking for a Neurobiologist who addresses fundamental questions in mechanisms of animal behavior from an evolutionary or functional perspective. Our department has current strength in behavior, ecology, and evolutionary biology. The successful applicant is expected to develop an externally funded research program and to participate in teaching at graduate and undergraduate levels. Ph.D. in biology is required. Postdoctoral experience is preferred. Applicants should send curriculum vitae, appropriate reprints, summary of research and teaching interests, and have three letters of reference sent to: **Dr. Keith D. Waddington**, Neuroethology Search, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124. We will begin reviewing applications on December 1, 1998. The University of Miami is an Equal Opportunity/Affirmative Action Employer and smoke/drug-free workplace. Women and minorities are encouraged to apply.

**RESEARCHER POSITION** in Parkinson's disease and movement disorders. Appropriate candidate would be involved in studying the pathophysiological mechanism(s) of Parkinson's disease. Applicants must have a Ph.D. related to neuroscience with or without postdoctoral experience. Experience in behavioral, neurobiological, and electrophysiological measures preferred. Send curriculum vitae to: **Daniel Truong, M.D.**, Parkinson's and Movement Disorder Institute, website: [www.pmdi.org](http://www.pmdi.org); FAX: 714-378-5061.



**Yale** UNIVERSITY

## Department of Molecular, Cellular and Developmental Biology

The Department of Molecular, Cellular and Developmental Biology at Yale University announces a search for two new faculty members. One appointment may be made at any level (tenured or non-tenured) and the other will be at the junior level (non-tenured). The department seeks to strengthen its faculty in areas ranging from vertebrate developmental biology to microbiology. Individuals working in any area of molecular, cellular and developmental biology are invited to apply. 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.

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 January 1, 1999 to:

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 encouraged to apply.*



## HOLLAND LABORATORY

### SCIENTISTS I/II

## HEMATOPOIESIS RESEARCH PROGRAM HOLLAND LABORATORY, AMERICAN RED CROSS

Applications are invited for principal investigator positions at the Scientist I/II level (assistant/associate professor equivalent) in the new Hematopoiesis Department being formed at the Jerome H. Holland Laboratory of the American Red Cross. Positions are available beginning January 1999 and also after July 1999. We are seeking highly motivated individuals with a Ph.D. and a strong record of first-authored peer-reviewed publications. Applicants should also possess excellent interpersonal and communication skills, the ability to establish a vigorous independent research program and an interest in developing collaborative projects with other scientists in the department. Successful candidates are eligible for appointment to the faculty of the George Washington University School of Medicine and Health Sciences.

The Holland Laboratory, which is the Biomedical Research and Development division of the American Red Cross, is located ten miles north of the NIH in Rockville, MD (Washington, DC metropolitan area) and offers an excellent start-up and benefits package.

Interested individuals should send their curriculum vitae, a career statement and three reference letters to:

Robert G. Hawley, Ph.D.  
Head, Hematopoiesis Department  
Holland Laboratory  
American Red Cross  
15601 Crabbs Branch Way  
Rockville, MD 20855. EOE, M/F/D/V.



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# POSITIONS OPEN

# ATCC

## COLLECTION SCIENTIST MALARIA

The American Type Culture Collection, serving as one of the world's largest and diverse repositories of biological materials, is seeking a highly qualified individual to function as **TECHNICAL MANAGER** of the malaria repository. Candidate will be responsible for the development and maintenance of a collection relevant to a broad aspect of malaria research, including managing the reagent collection, characterization, authentication, preservation, maintenance, and distribution. Incumbent will also write standard operating protocols, develop and submit grants and contract proposals, provide scientific expertise to internal/external customers, and supervise and train collection support staff. Ph.D. in parasitology plus a minimum of two years of experience with malaria parasites, as well as extensive knowledge and skill in molecular parasitology research, required. Excellent communications skills a must. Competitive salary and comprehensive benefits package offered. Interested candidates should submit letter of interest and résumé, including salary history, to:

American Type Culture Collection  
Attn: Human Resources/MAL  
10801 University Boulevard  
Manassas, VA 20110  
FAX: 703-365-2735

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## ADVANCED LABORATORY TRAINING AND RESEARCH FELLOWSHIPS EMERGING INFECTIOUS DISEASES

Administered by the National Centers for Infectious Disease, NCID/CDC, and the Association of Public Health Laboratories, APHL. This two-track program (Advanced Training and Research) will train qualified candidates to support public health initiatives, and provide opportunities for Doctoral-level scientists to conduct high-priority infectious disease research in local, state, or federal (CDC) public health laboratories. *Applicants must be U.S. citizens and be able to start appointments by August 24, 1999.* Training Fellowship: A one-year advanced program designed for Bachelor's or Master's-level scientists, with emphasis on the practical application of technologies, methodologies, and practices related to emerging infectious diseases. The annual stipend is \$20,292 with a Bachelor's degree and \$21,420 with a Master's degree, plus health benefits. Postdoctoral Research Fellowship: A two-year program designed for Doctoral-level (Ph.D., M.D., D.V.M.) scientists with an emphasis on research or development in infectious diseases. The annual stipend is \$29,500, plus health benefits. Fellowship Application deadline: April 9, 1999. For further information and application materials via the Internet contact: **website:** <http://www.cdc.gov/ncidod/cid/fp.htm> or via telephone/letter contact: **Emerging Infectious Diseases, Laboratory Fellowship Program, Association of Public Health Laboratories, 1211 Connecticut Avenue N.W., Suite 608, Washington, DC 20036. Telephone: 202-822-5227; FAX: 202-887-5098. Deadline: 9 April 1999.**

## ASSISTANT RESEARCH SCIENTIST

We seek an individual with skills in scientific administration for operation of the U.S. GLOBEC Program Coordinating Office. Responsible for preparing newsletters and scientific reports, coordination of meetings and conferences, grant administration, budget management, and outreach. Coordinates GLOBEC Scientific Steering Committee and regional program committees and assists in development of synthetic and comparative analysis of GLOBEC studies. Requirements include recent research experience and educational (Ph.D.) background in oceanography, effective communication skills, and experience in preparation and editing of scientific papers and reports. Title and salary dependent on education and experience. Please send curriculum vitae and four references by November 30, 1998, to: **Dr. M. J. Fogarty, University of Maryland, Center for Environmental Science, Chesapeake Biological Laboratory, P.O. Box 36, Solomons, MD 20688. Affirmative Action/Equal Opportunity Employer.**

# POSITIONS OPEN

## VETERINARY MEDICAL OFFICER OR MICROBIOLOGIST USDA, AGRICULTURAL RESEARCH SERVICE National Animal Disease Center Ames, Iowa

Since its establishment in 1961, the Center has been responsible for investigating animal diseases through state-of-the-art research. Currently over 45 scientists from interdisciplinary teams with expertise in the areas of biochemistry, immunology, physiology, virology, bacteriology, pathology, molecular biology, and veterinary medicine. Together these Investigators study approximately 35 infectious and metabolic diseases of economic importance to the U.S. agriculture. Research facilities include fully equipped, modern laboratories and animal biocontainment facilities. Full base funding is provided.

The Metabolic Diseases and Immunology Research Unit has a position for a Veterinary Medical Officer or a Microbiologist to conduct basic and applied research on mastitis in animals caused or mediated by bacterial agents, nutritional imbalance, or hormonal disturbances. Requires knowledge in veterinary and molecular immunobiology, cell biology, bacteriology, biochemistry, veterinary pathology, animal science, and genetics, as well as dairy herd health management. *U.S. citizenship is required.* Applicants must have a D.V.M. or B.S. in microbiology or related field of study, plus directly related Ph.D. and/or professional research experience. Salary commensurate with experience (\$46,254 to \$99,397). For further information on the research program and/or position contact: **Dr. Ronald Horst, Telephone: 515-239-8312.** Comprehensive benefits package includes paid annual and sick leave, life insurance, health insurance, and a savings and investment plan (401k type plan) in addition to federal retirement plan. For information on application procedures contact: **Janae Lentz, Telephone: 515-239-8277.**

USDA/ARS is an Equal Opportunity Provider and Employer.

## TWO-YEAR BIOLOGY POSITION EVOLUTIONARY OR PHYSIOLOGICAL ECOLOGIST

Gettysburg College Biology Department is seeking an Evolutionary or Physiological Ecologist with an earned Ph.D. for a two-year appointment beginning August 1999 to teach a first-year course in biology, a sophomore/junior-level course in the person's area of expertise (e.g., evolution, entomology, or a botany course), ecology, and/or general biology. Enthusiasm for teaching and effective communication skills are required. Because this is a two-year appointment, there will be ample opportunity for the successful applicant to involve undergraduate students in his/her research program. Gettysburg College is a highly selective liberal arts college located within 90 minutes of the Washington/Baltimore metropolitan area. Please send a curriculum vitae, statement of teaching and research goals, and names of three references, at least one of whom can address the candidate's teaching abilities, to: **Dr. Sherman S. Hendrix, Department of Biology, Gettysburg College, Gettysburg, PA 17325 by December 1, 1998.** Applications by e-mail will not be accepted. *The College seeks to promote diversity in its community through its Affirmative Action/Equal Opportunity programs; included in an attractive benefits package is a Partner Assistance Program.*

## PROTEIN CHEMIST

**RESEARCH ASSOCIATE** position available for a Doctoral-level scientist with one to three years of postdoctoral experience to work on the purification and modification of proteins for the development of novel vaccines. Candidates should have a Ph.D. in either protein chemistry or biochemistry and should have extensive experience in protein purification and modification. Successful candidate will be expected to take a leadership role in the purification of plasma proteins and the purification and characterization of recombinant proteins for use in the development of vaccines to prevent or treat infectious diseases and cancer. A record of publication in quality journals is highly desirable. Please send a curriculum vitae, the names of three references, and copies of relevant publications to:

**Dr. George J. Cianciolo  
Department of Pathology  
Box 3712  
Duke University Medical Center  
Durham, NC 27710**

No telephone calls please. *Duke University Medical Center is an Equal Opportunity Employer.*

# POSITIONS OPEN



## ASSISTANT SCIENTIFIC DIRECTOR SOUTHWEST FOUNDATION FOR BIOMEDICAL RESEARCH

Applications and nominations are invited for the position of Assistant Scientific Director for Southwest Foundation for Biomedical Research. This is a full-time administrative position. Applicants must have a Doctoral degree and a minimum of six years of experience in research and/or administration. The successful applicant will assist the Scientific Director in preparing institutional budgets, negotiating with funding agencies, administering institutional committees, seeking contributions for research initiatives, managing internal websites, reviewing contracts and material transfer agreements, preparing facilities grant applications, preparing promotional literature, and developing a Corporate Affiliates Program. Information about our institution can be obtained from our website: <http://www.sfbr.org>. Applicants should submit their curriculum vitae, a statement of career goals, and the names and addresses of at least three references to: **Dr. John L. VandeBerg, Scientific Director, c/o Director of Human Resources (848), Southwest Foundation for Biomedical Research, P.O. Box 760549, San Antonio, TX 78245-0549 USA. Equal Opportunity Employer.**

The Forage Biotechnology Group (FBG) at the Samuel Roberts Noble Foundation is seeking a **STAFF SCIENTIST (PRINCIPAL INVESTIGATOR)** in the area of molecular marker/genomics research and development. The Noble Foundation is a nonprofit organization of approximately 200 employees involved in community service and development, agricultural consultation and research, and fundamental plant biology research. The mission of the FBG is to develop improved forages for the southern Great Plains and, in the process, advance the science of forages. The genomics position will involve development of marker-assisted selection protocols for forage grasses and legumes, and research in the areas of gene expression as well as molecular genetic diversity. Qualifications include a Ph.D. in an appropriate area of biology, plus additional experience in molecular marker/genomics research and technology. Salary commensurate with qualifications and experience. Health and retirement benefits provided. Send a letter of application, detailed résumé, and arrange for three letters of reference to be sent to: **Attn: Genomics Specialist (Position # 25), Human Resources Department, The Samuel Roberts Noble Foundation, 2510 Sam Noble Parkway, Ardmore, OK 73401.**

We are seeking an individual with a proven track record in pharmacokinetics and/or molecular endocrinology. The successful candidate will lead a laboratory staffed by three B.S./M.S. Technicians, and will design, conduct, analyze, and report results from preclinical/clinical reproductive health/contraceptive/toxicology studies. The successful candidate will work closely with three other Ph.D. scientists to achieve project goals. The ideal candidate will have five to 15 years of experience beyond the Ph.D. degree and will possess strong leadership and writing skills. Presentation at scientific meetings and publication in peer-reviewed journals are encouraged and expected. Salary commensurate with experience and skills.

Interested candidates should send curriculum vitae and provide three professional references to: **Ms. Erica James, Human Resources Manager, Diagon/Bioqual, Inc., 9600 Medical Center Drive, Rockville, MD 20850-3336. Equal Opportunity Employer.**

## POSTDOCTORAL POSITION

A Postdoctoral position is immediately available at the Unit of Avian Health of the Department of Microbiology and Immunology of the College of Veterinary Medicine, Cornell University. The project is directed toward the development of recombinant vaccines using Marek's disease herpesvirus (MDV) as a vector, to create deletions mutants in MDV, and to clone the complete genome of Marek's disease virus in BAC vectors. A Ph.D. and a strong background in molecular biology are required. Familiarity with cell culture techniques is recommended. Please send curriculum vitae and names of three references to: **Dr. Karel A. Schat, Unit of Avian Health, Department of Microbiology and Immunology, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853. FAX: 607-253-3384; e-mail: [kas24@cornell.edu](mailto:kas24@cornell.edu). Equal Opportunity Employer.**

**NORTH SHORE UNIVERSITY  
HOSPITAL IN MANHASSET**

**Academic Research  
Scientist**

The Division of Nephrology and Hypertension is seeking an individual to join our progressive research team.

Applicants should possess a Ph.D. or equivalent in Molecular Biology or Cell Biology. The successful candidate will be expected to participate in ongoing research projects, develop independent areas of research, and receive extramural grant funding.

Responses should include a detailed resume, a statement of research interests/philosophy, and a minimum of 3 references. We offer a competitive salary and comprehensive professional benefits.

Please forward resume to:

**Human Resources Department  
North Shore University Hospital  
300 Community Drive  
Manhasset, NY 11030**

Equal Opportunity Employer M/F/D/V.

**WE INVITE THE BEST  
TO JOIN THE BEST.**

**NORTH SHORE -  
LONG ISLAND JEWISH  
HEALTH SYSTEM**

**EUROPEAN OPPORTUNITIES**

**MDC**

**MAX DELBRÜCK CENTER  
FOR MOLECULAR MEDICINE  
BERLIN-BUCH**

The MAX DELBRÜCK CENTER FOR MOLECULAR MEDICINE (MDC) BERLIN-BUCH invites applications for

**Junior Group Leader Positions**

We are seeking applications from outstanding individuals with research interests in, but not limited to, regulation of cell growth, molecular and genetic mechanisms of gene regulation and cellular differentiation, cell-cell interactions, regulation of signal transduction pathways, and tumor immunology, to complement existing faculty positions in the fields of cardiovascular research, cancer research, neuroscience, molecular/gene therapy, structural biology, and genetics. The positions are initially limited for 5 years. Tenure track or tenure will depend on the candidate's expertise and scientific record. Appropriate laboratory space and funds for laboratory set-up and operation will be provided. In addition, positions for technicians and fellowships for postdocs and graduate students can be obtained. The successful applicants will be expected to apply for extramural funding, and are encouraged to interact with ongoing clinical research programs at the Franz Volhard Clinic for Cardiovascular Diseases and the Robert Rössle Cancer Clinic; these clinics are associated with the Charite, Humboldt University of Berlin.

For further information, please contact the program directors:

Cardiovascular Research: **Hermann Haller**, phone +49-30-9417-2203, e-mail: [haller@fvk-berlin.de](mailto:haller@fvk-berlin.de)

Cancer Research: **Walter Birchmeier**, phone +49-30-9406-3800, e-mail: [wbirch@mdc-berlin.de](mailto:wbirch@mdc-berlin.de)

Neurosciences: **Helmut Kettenmann**, phone +49-30-9406-3325, e-mail: [hk@nero.glia.mdc-berlin.de](mailto:hk@nero.glia.mdc-berlin.de)

Genetics: **Friedrich C. Luft**, phone +49-30-9417-2202, e-mail: [luft@fvk-berlin.de](mailto:luft@fvk-berlin.de)

Gene Therapy: **Thomas Blankenstein**, phone +49-30-9406-2816, e-mail: [klahn@mdc-berlin.de](mailto:klahn@mdc-berlin.de)

Structural Biology: **Udo Heinemann**, phone +49-30-9406-2270, e-mail: [heinemann@mdc-berlin.de](mailto:heinemann@mdc-berlin.de)

Candidates should submit their curriculum vitae, a list of publications, a short description of their present and future research objectives, and the names of three references to: **Detlev Ganten, M.D., Ph.D., Max Delbrück Center for Molecular Medicine, (MDC) Berlin-Buch, Robert-Rössle-Strasse 10, D-13125 Berlin, Germany.**

Deadline for application is November 15, 1998. The MDC is a member of the Hermann von Helmholtz-Association of National Research Centers supported by the Federal Government of Germany and the Land Berlin.

*The MDC is an Equal Opportunities Employer.* For further information about the MDC please visit our website (<http://www.mdc-berlin.de>).

**EUROPEAN OPPORTUNITIES**

**NFR**

**Naturvetenskapliga forskingsrådet  
Swedish Natural Science Research Council**

invites application for

**SENIOR RESEARCH POSITIONS in**

**Advanced Simulations in Condensed Matter Physics. From Electronic Structure to Materials Properties (Ref: 702-233/98)**

**Bioanalytical chemistry relevant to proteomics (Ref: 702-234/98)**

*The position is within the area of analytical chemistry, aiming at the development of high performance methods and chemical tools for separation, characterization, and sequencing of biomolecules, particularly for studies of complex protein systems from biological material.*

**Experimental Astroparticle Physics related to the AMANDA experiment (Ref: 702-236/98)**

**Quantum Chaos (Ref: 702-239/98)**

*Experimental and/or theoretical quantum chaos with emphasis on the interaction between experiment and theory.*

**Sediments as environmental archives (Ref: 702-241/98)**

*The scope of the position encompasses studies of aquatic sediments focused on changes in environment and climate. The field of research is broad and can include aspects of sedimentology, geochemistry, biostratigraphy, micropaleontology, and isotope geology.*

**Theoretical biochemistry (Ref: 702-243/98)**

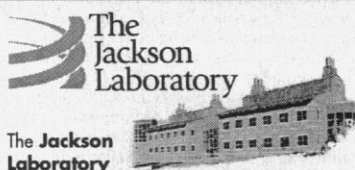
*Theoretical calculations on or simulations of biochemical systems including bioinformatics.*

The Council's intention in creating these positions is to contribute the recruitment of researchers and to the renewal of research in Sweden. The programme is aimed primarily at scientists with a doctorate and several years of postgraduate research. The positions are held for three plus three years and are placed at appropriate university departments in Sweden to be chosen in consultation between the candidates, NFR, and the universities. The applicant is kindly requested to state where he wants the position to be placed. The universities decide on tenure. Duties can commence from July 1, 1999. The salary range will correspond to that of an assistant/associate professor (SEK 300,000-390,000 per year, i.e., USD 39,000-50,000 per year).

A curriculum vitae including a list of publications, a short research plan, plus a description of scientific achievements (max 5 pages), and a maximum of 10 reprints of scientific papers should be appended. Other documents that the applicant wants to refer to could also be included. Four copies of the application and all appendices and reprints should be submitted.

Applications, quoting Ref., should reach the **Swedish Natural Science Research Council, Box 7142, S-103 87 Stockholm, Sweden**, by December 15, 1998.

Further information can be obtained from **Ms. Natalie Lunin** at the Secretariat of NFR, phone no. +46 8 454 42 32, e-mail address [Natalie.Lunin@nfr.se](mailto:Natalie.Lunin@nfr.se), fax no +46 8 454 42 50.



**The Jackson  
Laboratory**

is one of the world's foremost centers for mammalian genetics research. Located in Bar Harbor, Maine, the lab is adjacent to Acadia National Park. Mountains, oceans, forests, lakes, and trails are all within walking distance. If you are looking for a more natural environment, this could be the opportunity you've been searching for.

**Science Writer**

A Science Writer position is available at The Jackson Laboratory. The successful applicant will be responsible for assisting in writing grants and scientific papers and reviewing manuscripts for one of our senior staff scientists. This position requires both a thorough understanding of genetics and molecular biology acquired through study at the Ph.D. level and strong skills in scientific writing.

Applicants are requested to prepare a cover letter/resume. **Please send resume to:**  
The Jackson Laboratory, 600 Main Street,  
Bar Harbor, Maine 04609.

Fax (207) 288-6106. Email [jobs@jax.org](mailto:jobs@jax.org)

The Jackson Laboratory is an EOE/AA Employer.

<http://www.jax.org>



## POSITIONS OPEN

### ENVIRONMENTAL PHYSIOLOGIST/ ECOTOXICOLOGIST UNIVERSITY OF KENTUCKY

The Environmental Physiology and Ecotoxicology Research Cluster of the T. H. Morgan School of Biological Sciences invites applications for a **TENURE-TRACK POSITION** to begin in the fall of 1999, subject to final budget approval. We seek an individual of exceptional promise engaged in research on how organisms, populations, and/or communities respond to chemical or other environmental stresses. Ecotoxicology/risk assessment is an area of particular interest, but other areas that can complement existing expertise will be considered (e.g., immunotoxicology, developmental toxicology). See our website: [www.uky.edu/ArtsSciences/Biology/OIB/EnvPhys](http://www.uky.edu/ArtsSciences/Biology/OIB/EnvPhys) for more details regarding our research program. Strong priority will be given to candidates working with macroinvertebrates, fish, amphibians, or reptiles. Applicants should be able to develop an independent, nationally competitive research program and contribute to graduate and undergraduate education. Teaching expectations include courses within the candidate's specialty and contributions toward the core curriculum (e.g., animal physiology). Excellent start-up support, research space, facilities, and opportunities for multidisciplinary interactions are available. Applicants should have letters sent by at least three references and submit a curriculum vitae, an outline of research accomplishments, a brief research plan, a statement of teaching interests, and a list of three additional references. Address correspondence to: Environmental Physiology and Ecotoxicology Search Committee, T. H. Morgan School of Biological Sciences, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225. Deadline for receipt of applications is December 7, 1998.

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

The Department of Microbiology and Immunology at the University of Oklahoma Health Sciences Center invites applications for a 12-month tenure-track position at the **ASSISTANT PROFESSOR** level in the discipline of virology. Special consideration will be given to individuals with expertise in the study of viral immunology and viral pathogenesis; however, outstanding scientists in all areas of virology are encouraged to apply. The successful candidate will be expected to develop an extramurally funded research program and participate in team-taught medical, dental, and graduate courses. The Department consists of 15 full-time faculty and maintains a multimillion-dollar annual research budget generated from more than 40 extramural grants. An outstanding training program is in place that supports 14 Postdoctoral Fellows and 36 graduate students. For an overview of the Department, visit our website: [www.microbiology.ouhsc.edu](http://www.microbiology.ouhsc.edu). Submit a curriculum vitae, description of research interests and teaching experience, and names of three references to: Ronald C. Kennedy, Ph.D., Chair of the Virology Search Committee, Department of Microbiology and Immunology, P.O. Box 26901, University of Oklahoma Health Sciences Center, Oklahoma City, OK 73190. Applications will be reviewed beginning November 16, 1998. *The University of Oklahoma is an Equal Opportunity/Affirmative Action Employer. Applications from women and ethnic minorities are strongly encouraged.*

### TWO POSTDOCTORAL POSITIONS THE PUBLIC HEALTH SERVICE NATIONAL INSTITUTES OF HEALTH National Institutes of Neurological Disorders and Stroke Synaptic Mechanisms Section

Two positions are available immediately in the intramural program of the NINDS for recent (one to five years) Doctoral graduates to work on the roles of calcium and other ion channels in presynaptic nerve terminals. The Fellows will examine the roles of ion channels and release site-associated proteins in transmitter release and its modulation using the patch clamp technique applied to a vertebrate calyx-type presynaptic nerve terminal. A strong background is required in cellular neurobiology. Please send your curriculum vitae with a letter that describes your research accomplishments and interests, and your immediate and long-term goals to: E. F. Stanley, Ph.D., Synaptic Mechanisms Section, NINDS, Building 36, Room 5A25, NIH, 36 Convent Drive, Bethesda, MD 20892-4156. E-mail: [elis@helix.nih.gov](mailto:elis@helix.nih.gov).

*NINDS is an Equal Opportunity Employer.*

## POSITIONS OPEN

### DIRECTOR CONSERVATION RESEARCH FELLOWSHIP PROGRAM

The Nature Conservancy (TNC) seeks a Director for the nation's first Postdoctoral Fellowship program devoted entirely to conservation: the David H. Smith Conservation Research Fellowship Program. The ideal candidate will be a mid-level Ph.D. scientist whose work has successfully combined academic research and publication with more applied work in conservation. Experience working with conservation practitioners or land managers highly desirable. Appropriate areas of specialization include conservation biology, natural resource management, ecosystem ecology, or related fields. The Director will create, manage, and publicize the program; develop relationships with key academic institutions; promote research to strengthen TNC's ecoregion- and site-based conservation; identify resources to expand the program; and play an integral role in strategic planning related to the overall role of science and research in TNC's work. Salary range of \$70,000 to \$80,000. With generous donor support, the program is already funded at a level that will support 48 Postdoctoral Fellows over a ten-year period. For a detailed position description see website: <http://www.tnc.org> or contact: M. Perez, Telephone: 703-841-4845; e-mail: [mperez@tnc.org](mailto:mperez@tnc.org). Submit applications by November 30, 1998, to: Dr. Elizabeth Chornesky, The Nature Conservancy, 4245 North Fairfax Drive, Arlington, VA 22203-1606.

### SCIENCE PROGRAM OFFICER DAVID AND LUCILE PACKARD FOUNDATION Los Altos, California

The applicant should have a Ph.D. in science or engineering with experience in research and either teaching or public policy work. Some administrative experience is preferred. Duties include planning and implementing grants programs, analyzing proposals, and working with grantees. The total science grants budget in 1999 is \$67 million. For details on the foundation and this position, see website: [www.packfound.org](http://www.packfound.org). Apply by November 30, 1998, to: Kenneth Ford, Director of Science Programs, e-mail: [k.ford@packfound.org](mailto:k.ford@packfound.org); FAX: 650-917-6180.

**POSTDOCTORAL POSITION** is available January 1, 1999, to study hypothalamic neurons and pathways generating stress-induced autonomic and neuroendocrine changes. Complementary studies will utilize voltage clamp recordings in single neurons in brain slice preparations as well as assays in conscious chronically instrumented rats. Experience with electrophysiological recording techniques preferred but not required. Send curriculum vitae, research interests, and names of three references to: Dr. Joe DiMicco, Department of Pharmacology and Toxicology, School of Medicine, Indiana University, Indianapolis, IN 46202-5126. E-mail: [jdimicco@iupui.edu](mailto:jdimicco@iupui.edu). *Indiana University is an Equal Opportunity/Affirmative Action Employer.*

### POSTDOCTORAL ASSOCIATE

Postdoctoral position is available immediately to study oxidative stress-activated transcription factors and regulation of drug-metabolizing enzyme genes expression. A working knowledge of molecular and cell biology is essential. Please send curriculum vitae and names of three references to: Dr. Anil Jaiswal, Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

A **POSTDOCTORAL POSITION** is available to study growth factor signaling and apoptosis in breast cancer. A Ph.D. degree with a strong background in molecular and cellular biology is required. Send curriculum vitae, a brief description of research experience, and names of three references to: Dr. Hyeon-Reh Choi Kim, Department of Pathology, Wayne State University, School of Medicine, 540 East Canfield, Detroit, MI 48201. FAX: 313-577-0057; e-mail: [hrckim@med.wayne.edu](mailto:hrckim@med.wayne.edu).

## POSITIONS OPEN

### POSTDOCTORAL RESEARCH FELLOWSHIP ENVIRONMENTAL HEALTH LABORATORY SCIENCES

Administered by the National Center for Environmental Health, NCEH/CDC, and the Association of Public Health Laboratories, APHL. This Fellowship will train qualified candidates to support public health initiatives and provide opportunities to conduct high-priority research in environmental health laboratories. *Applicants must be U.S. citizens or permanent residents* and be able to start appointments by August 24, 1999. A two-year program designed for Doctoral-level (Ph.D., M.D., D.V.M.) scientists with an emphasis on research or development in environmental health laboratory sciences. The annual stipend is \$29,500, plus funds for health benefits. Training/research will be customized for each Fellow based upon environmental health areas of interest, high-priority laboratory personnel needs, and Host laboratory capabilities. One year of the two-year assignment will be within the Division of Environmental Health Laboratory Sciences, NCEH/CDC in Atlanta. The other year will be at a state or local public health laboratory. Fellowship Application deadline: April 9, 1999. For further information and application materials via the Internet contact website: <http://www.cdc.gov/nceh/ncehome.htm> or via telephone/letter contact: Environmental Health Laboratory Sciences, Laboratory Fellowship Program, Association of Public Health Laboratories, 1211 Connecticut Avenue N.W., Suite 608, Washington, DC 20036. Telephone: 202-822-5227; FAX: 202-887-5098. Deadline: 9 April 1999

### GENOME/BIOINFORMATICS POSITION INSTITUTE OF MOLECULAR BIOLOGY ACADEMIA SINICA

Applications are invited for a tenure-track position from outstanding individuals studying in the field of genome research and/or bioinformatics. Scientists with a Ph.D. degree and appropriate postdoctoral experience in related work are encouraged to apply.

The Institute currently has 28 laboratories, and is well-funded by the Academia Sinica and the National Science Council. The successful candidate will be appointed at the **ASSISTANT, ASSOCIATE, or FULL RESEARCH FELLOW** level, and is expected to develop his/her own independent research programs as well as to collaborate with other laboratories in the Institute.

Deadline for application is December 15, 1998. First-round candidates will be selected by January 15, 1999. The interview process and final decision are expected to be completed by April 15, 1999.

Interested individuals should send curriculum vitae, a statement of past research accomplishments and future research plans, and three letters of reference to: Search Committee, c/o Fei Chen, Institute of Molecular Biology, Nankang, Taipei 11529 Taiwan ROC. FAX: 886-2-2782085; Telephone: 886-2-27899184.

### SMITHSONIAN INSTITUTION FELLOWSHIP PROGRAM

**GRADUATE STUDENT, PREDOCTORAL, POSTDOCTORAL, and SENIOR FELLOWSHIPS** in animal behavior, ecology, and environmental science; including an emphasis on the tropics; Earth sciences and paleobiology; evolutionary and systematic biology; history of science and technology. Tenable in residence at the Smithsonian facilities. Stipends and tenure vary.

Deadline: January 15 annually. Contact: Office of Fellowship and Grants, Smithsonian Institution, Desk S, Washington, DC 20560-0902. Telephone: 202-287-3271; e-mail: [siof@ofg.si.edu](mailto:siof@ofg.si.edu); website: [www.si.edu/research+study](http://www.si.edu/research+study).

*An Equal Opportunity Employer.*

**PHYSICS CAREER SPECIALIST.** The American Institute of Physics (AIP) is seeking an individual to promote the hiring of Physicists in industry by representing the skills and experience of Physicists; expanding Physicists' understanding of career options; and serving as liaison for the AIP/Manpower alliance.

Graduate degree in science required. Familiarity with industrial Physicists. Marketing experience preferred. Excellent verbal, written, and interpersonal skills. Self-starter. Able to handle multiple tasks. Extensive travel. Position is one year renewable.

Send résumé to: Alice Robinson, American Institute of Physics, One Physics Ellipse, College Park, MD 20740. FAX: 301-209-0847; e-mail: [aiphr@aip.org](mailto:aiphr@aip.org). *Equal Employment Opportunity/Affirmative Action.*

## The Wellcome Trust and Health Research Board 'New Blood' Fellowships in Biomedical Science 1999

The Trust has agreed to make available for open competition at least £1 million sterling in 1999 for New Blood Research Fellowships in the Republic of Ireland. The purpose of this scheme is to strengthen biomedical research in the Republic of Ireland by providing funds to help universities make appointments to the permanent academic staff. Support under this scheme will be focused at the first appointment of clinical and non-clinical researchers. Applications will be considered in competition and awarded to those candidates who, in the view of the Wellcome Trust, Health Research Board and their respective advisors, are of very high ability and promise.

The Fellowships will provide:

- The fellow's full salary for three years, 50 per cent of the salary in the fourth year and 25 per cent in the fifth - the balance of the fellow's salary in the fourth and fifth year to be paid by the host institution. The salary paid will be within the salary scales applicable at the time of award for lecturers and senior lecturers in the Republic of Ireland. Salary requests at the Consultant level will be considered for fellows in receipt of an Honorary Consultant contract during the fellowship.
- The costs of the research programme and allowances to support attendance at scientific meetings but for the first three years only.
- Equipment for the programme of research and to enable start-up in a new laboratory

Please note that applications will only be considered if accompanied by a written undertaking from the Head of the Institution, or someone else with full authority to commit the institution, that the candidate will be taken onto the permanent academic staff at the end of the grant. Proposals in all biomedical fields other than cancer will be considered.

Applications forms and further details are available from:

**The Grants Section, (Matching Funding in Ireland), The Wellcome Trust, 183 Euston Road, London NW1 2BE, UK. E-mail: [matching@wellcome.ac.uk](mailto:matching@wellcome.ac.uk)**

**New Blood Fellowships, The Health Research Board, 73 Lower Baggot Street, Dublin 2, Ireland. Tel: 00353 1 676 1176; Fax: 00353 1 661 1856; E-mail: [hrb@hrb.ie](mailto:hrb@hrb.ie)**

Forms will be available from 27 October 1998 and the closing date for the receipt of applications will be 19 February 1999. **Late applications cannot be considered.**

Applications will be sent for full international peer review and then assessed by a specially commissioned panel of experts. Candidates who are short-listed will be interviewed at the offices of the Board in Dublin during the summer of 1999. Successful candidates will be able to take up awards on, or after, 1 August 1999.



The Wellcome Trust is a Registered Charity, No. 210183, and seeks to support research in biomedical sciences and the history of medicine by means of grants and other activities



## GLOBAL OPPORTUNITIES



### THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY DEPARTMENT OF BIOCHEMISTRY FACULTY POSITIONS

The Department of Biochemistry invites applications for 1-2 faculty positions at the Associate Professor or Assistant Professor level. Applicants should have a Ph.D. degree and relevant research experience.

Three major research areas are active in the Department: (a) genetic engineering & structural biology, (b) molecular and cellular biochemistry, and (c) biotechnology and plant & medicinal biochemistry. Scientists eminent in other areas will also be considered. Teaching responsibilities include undergraduate and graduate courses.

Starting rank and salary will depend on qualifications and experience. Fringe benefits including medical and dental benefits, annual leave, children's education allowance and assistance in housing will be provided where applicable. Initial appointment will normally be on a three-year contract. A gratuity will be payable upon successful completion of contract. Re-appointment will be subject to mutual agreement.

Applications/nominations should be sent with a curriculum vitae, together with the names and addresses of three referees, to **Dr. James Hackett, Chairman of Search Committee, Department of Biochemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (Fax No: 852-2358-2765) before 31 December 1998.**

## EUROPEAN OPPORTUNITIES

## The Boehringer Ingelheim Fonds

invites applications for the

### 1999 Research Award for Postdoctoral Fellows

to be submitted by February 1, 1999. The Foundation supports activities concerned with basic research in biomedicine and aimed at acquiring new scientific knowledge.

The award is intended for postdoctoral researchers, who, having spent two to three years working overseas, plan to move to Europe with the intention of establishing his/her own research group. The scientific achievements of applications must be of outstanding quality having resulted in papers published in or accepted by leading international journals. Applicants should not be older than 31 years. Nationality is irrelevant.

The award consists of a three-year fellowship. After a period of two and a half years, the results attained by the Fellow and his/her further intentions will be evaluated in order to decide whether the fellowship is to be extended for a further three-year term. The first year of the scholarship may be availed of in order to bring projects in progress at the overseas laboratory to a conclusion. Once a Fellow takes up his work in Europe he/she will receive a one-off project-related grant of DM 100,000.00.

Detailed instructions are available on request from: Boehringer Ingelheim Fonds, Foundation for Basic Research in Biomedicine, Stafflenbergstrasse 32, D-70184 Stuttgart, Tel: 49/711/24 73 97; Fax: 49/711/24 81 40; E-mail: [secretariat@bifonds.de](mailto:secretariat@bifonds.de)

## POSITIONS OPEN

The Agricultural Research Service, Beltsville Agricultural Research Center, Weed Science Laboratory, in Beltsville, Maryland, has two full-time, two-year **POSTDOCTORAL POSITIONS** available immediately. Salary: GS-11, \$39,270 per annum plus benefits. Candidates must be a U.S. citizen or citizen of country allied with United States. One position is to study the mechanism of apparent induced disease resistance observed in tomato plants grown in a cover crop of hairy vetch. Applicants must have graduated with Ph.D. and gained practical experience in biochemistry, molecular biology, and have a knowledge of plant pathology. Send letter of interest, curriculum vitae, transcripts, dissertation, and names of three references to: **Dr. Autar Mattoo, Vegetable Laboratory, Room 238, Building 010A, BARC, Beltsville, MD 20705.** E-mail: [amatoo@asrr.arsusda.gov](mailto:amatoo@asrr.arsusda.gov); website: <http://www.barc.usda.gov/psi/vl/home.htm>. Or: **Dr. James Anderson, Weed Science Laboratory, Room 342, Building 001, BARC, Beltsville, MD 20705.** E-mail: [janderson@asrr.arsusda.gov](mailto:janderson@asrr.arsusda.gov); website: <http://www.barc.usda.gov/psi/wsl/wsl.htm>.

The second position is concerned with studying fungal elicitor-induced cell-signaling mechanism in weeds and other nonbeneficial plants (*Weed Sci.* 45:716-21, 1997). Applicants must have graduated with Ph.D. and gained practical experience in plant pathology/physiology and plant biochemistry/molecular biology. Send letter of interest, curriculum vitae, transcripts, dissertation, and names of three references to: **Dr. James Anderson** (address above). USDA, ARS is an Equal Opportunity Provider and Employer.

## FELLOWSHIPS IN MATHEMATICS AND MOLECULAR BIOLOGY

Description: The Program in Mathematics and Molecular Biology (PMMB), with support from the National Science Foundation and the Burroughs Wellcome Fund Interfaces Program, offers Graduate and Postdoctoral Fellowships for training and research at the interface between mathematics and molecular biology. Applicants must propose a project with both a mathematical and a biological component in order to be considered. PMMB Fellowships can be held at any university or college in the United States.

Deadline: February 1, 1999. Funding can begin between July 1, 1999, and December 1, 1999.

Contact: Program in Mathematics and Molecular Biology, Department of Mathematics, Florida State University, Tallahassee, FL 32306-4510. Telephone: 850-644-8710; FAX: 850-644-6612; e-mail: [pmbb@math.fsu.edu](mailto:pmbb@math.fsu.edu); website: <http://www.math.fsu.edu/~pmbb/>. Women and minorities are encouraged to apply.

## POSTDOCTORAL POSITION p53 TUMOR SUPPRESSOR GENE

A Postdoctoral position is available to study the regulation of expression of the p53 tumor suppressor gene and the role of mutant forms of p53 in oncogenesis. Training in molecular biology and cell biology is essential.

For information on the laboratory please see our website: <http://zebra.biol.sc.edu/~reisman/>.

Please send curriculum vitae, a summary of previous research, and the names of three references to:

**Dr. David Reisman**  
Department of Biological Sciences  
University of South Carolina  
Columbia, SC 29208  
E-mail: [reisman@biol.sc.edu](mailto:reisman@biol.sc.edu)

**POSTDOCTORAL FELLOWSHIP** available to study the mechanisms of tumorigenesis induced by the myb transcription factor/oncogene. Requires Ph.D. in molecular/cell biology/biochemistry, extensive experience in modern cell and molecular biology techniques (including gene/protein overexpression and analysis). Curriculum vitae and references to: **Rick Press, M.D., Ph.D., Oregon Health Sciences University, Pathology L113, Portland, OR 97201.** FAX: 503-494-2025; e-mail: [pressr@ohsu.edu](mailto:pressr@ohsu.edu); website: [www.ohsu.edu/som-MedGen/genrdp.htm](http://www.ohsu.edu/som-MedGen/genrdp.htm).

**POSTDOCTORAL POSITION** available to investigate transcription factor gene expression during development in transgenic mice (*PNAS* 95:9956-61, 1998). Experience in cell and molecular biology or neuroscience required. **Dr. Claudia Kappen, Department of Biochemistry and Molecular Biology, Mayo Clinic Scottsdale, 13400 East Shea Boulevard, Scottsdale, AZ 85259 USA.** E-mail: [kappen@mayo.edu](mailto:kappen@mayo.edu). Mayo Clinic Scottsdale is an Affirmative Action Employer and Educator.

## POSITIONS OPEN



## POSTDOCTORAL FELLOWSHIP POSITIONS TRAINING PROGRAM IN SIGNAL TRANSDUCTION AND CANCER

**Robert H. Lurie Comprehensive Cancer Center**

Postdoctoral positions (one-year, renewable) are available at the Robert H. Lurie Comprehensive Cancer Center of Northwestern University for study and training with Investigators interacting in an NCI-funded program, "Signal Transduction and Cancer." Trainees will have the opportunity to study mechanisms by which hormones, neurotransmitters, growth factors, and receptors control cell fate, differentiation, transformation, metastasis, and growth. Applicants must be U.S. citizens or permanent residents and must have received a Ph.D. in the biological sciences in the last two years. Applicants should send curriculum vitae, two letters of reference (with telephone numbers), graduate transcripts, and a statement of research interests to: **Robin Leikin, Ph.D., Administrative Director, Training Programs, Robert H. Lurie Comprehensive Cancer Center, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611.** E-mail: [rleikin@nwu.edu](mailto:rleikin@nwu.edu).

Northwestern University is an Equal Opportunity/Affirmative Action Employer.

## POSTDOCTORAL ASSOCIATE DEPARTMENT OF MICROBIOLOGY REQUISITION# F1516-A

Postdoctoral position available immediately to study the role of herpes simplex virus gene products and host cell factors in cell-cell spread of the virus. This work will involve construction and evaluation of recombinant viruses carrying mutations in genes required for efficient spread of the virus in cell culture. Ph.D. or M.D. degree with experience in virology, molecular biology, or cell biology required. Please send curriculum vitae and names and addresses (including e-mail) of three references to:

**Richard Roller, Ph.D.**  
Department of Microbiology, 3-752 BSB  
University of Iowa  
Iowa City, IA 52242-1109  
E-mail: [richard-roller@uiowa.edu](mailto:richard-roller@uiowa.edu)  
FAX: 319-335-9006

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

**POSTDOCTORAL FELLOWSHIPS** in ecology and evolution for one or two years (\$25,000 per year plus research allowance and benefits) available to join a research training group studying the biological implications of small population size. Applicants should discuss research plans with a participating faculty member at University of Maryland or Smithsonian Institution before applying. Visit website: <http://www.bsp.umd.edu> for information. Send curriculum vitae, six-page research proposal, two reprints, and three letters of reference by December 15, 1998, to: **BSP-RTG Coordinator, Department of Biology, University of Maryland, College Park, MD 20742.** Recipients must be permanent residents or U.S. citizens.

## POSTDOCTORAL POSITION

Available immediately for Ph.D. or M.D. in immunology. Research will include studies on cellular and molecular mechanisms of human B cell differentiation (ref: *J. Immunol.* 157:1006, 1996; *J. Immunol.* 159:3757, 1997). Send curriculum vitae to:

**Dr. Y. S. Choi**  
Laboratory of Cellular Immunology  
Alton Ochsner Medical Foundation  
1516 Jefferson Highway  
New Orleans, LA 70121

An Equal Opportunity Employer.

**POSTDOCTORAL POSITION** available immediately to study changes in excitation-contraction coupling in heart failure. The research employs confocal microscopy and patch-clamp techniques. The applicant should have experience in cardiac cell physiology and microscopy. Send curriculum vitae and three references to: **Timothy Kamp, M.D., Ph.D., University of Wisconsin, H6/343 CSC, 600 Highland Avenue, Madison, WI 53792.** E-mail: [tjk@medicine.wisc.edu](mailto:tjk@medicine.wisc.edu).

## POSITIONS OPEN

## POSTDOCTORAL TRAINEE POSITIONS MOUNT SINAI SCHOOL OF MEDICINE

The Departments of Physiology and Biophysics, and Neurology are seeking Postdoctoral Trainees, immediately, who are recent Ph.D.'s or M.D.-Ph.D.'s interested in molecular and structural biology. The work focuses on the promyelocytic leukemia protein (PML), which forms nuclear bodies that respond to environmental stresses such as viral infection and are disrupted in acute promyelocytic leukemia (APL) patients. The PML protein is known to promote apoptosis, which may contribute to its leukemogenic potential.

NMR spectroscopy. The selected candidate will work on determination of high-resolution NMR structures of protein domains that bind PML and modulate its activity. Training in NMR methods is desirable as is previous experience in basic protein biochemistry.

Cell and molecular biology. Research projects including functional analysis of proteins that modulate the activity of PML training in cell and molecular biology is desired.

We offer an excellent salary and benefits package. Please forward a brief statement of research interest, capabilities, and goals; curriculum vitae; and details of three recommendations to: **Dr. Katherine L. B. Borden, Departments of Physiology and Biophysics, and Neurology, Box 1218, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574.** FAX: 212-860-3369; e-mail: [kathyb@inka.mssm.edu](mailto:kathyb@inka.mssm.edu). We are an Equal Opportunity Employer fostering diversity in the workplace.

## POSTDOCTORAL FELLOWSHIPS UNIVERSITY OF NORTH CAROLINA Lineberger Comprehensive Cancer Center

A Postdoctoral position is available studying the molecular mechanism of V(D)J recombination and DNA double-strand break repair. Research will make use of both *in vitro* (see: **Ramsden et al., Nature** 388:488, 1997; **EMBO J.** 17:609, 1998) and *in vivo* (**Ramsden and Gellert, Genes Dev.** 9:2409, 1995) models, and focus on the role of gene products required for nonhomologous end joining (Ku, DNA-PK, XRCC4, and DNA ligase IV). A Ph.D. with a background in biochemistry or molecular biology is required. Please send a curriculum vitae and the names and telephone numbers of three references to:

**Dale Ramsden, Ph.D.**  
UNC Lineberger Cancer Center  
School of Medicine, Campus Box 7295  
University of North Carolina  
Chapel Hill, NC 27599-7295

## UNIVERSITY OF PENNSYLVANIA

A **POSTDOCTORAL** or **RESEARCH ASSOCIATE** position is immediately available to study IL-12 biology in Sezary syndrome and cutaneous T-cell lymphoma. We are presently the only center worldwide utilizing IL-12 to treat these diseases. The biological effects of IL-12 on this clonal helper T-cell malignancy are under study. In addition, IL-12 receptor modulation by IL-12 and other cytokines is also under study as are the *in vivo* effects of such cytokines. If interested, contact: **Alain Rook, M.D., University of Pennsylvania, Department of Dermatology, 238 Clinical Research Building, 415 Curie Boulevard, Philadelphia, PA 19104.** Telephone: 215-662-6751 or 215-662-2399; FAX: 215-573-2033. Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL FELLOW.** Applications are invited for a Postdoctoral Fellowship to study cancer cell biology and genetics. Candidates with a Ph.D. degree in biochemistry, genetics, or molecular biology are preferred. Please submit a curriculum vitae and the names of three references to: **Michael F. Clarke, University of Michigan Medical School, Department of Internal Medicine and Molecular and Cellular Biology, 1500 East Medical Center Drive, 4-310 CCGC, Ann Arbor, MI 48109-0936.** FAX: 313-763-4226. An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** open to study mechanisms of innate immunity involved with cellular activation by endotoxin. See: *Ann. Rev. Immunol.* 13:437; *Nature* 395:284. Contact: **Peter S. Tobias, Ph.D., Department of Immunology, IMM-12, The Scripps Research Institute, 10550 North Torrey Pines Road, La Jolla, CA 92037.** E-mail: [tobias@scripps.edu](mailto:tobias@scripps.edu).

TSRI is an Equal Opportunity/Affirmative Action Employer.



**MAYO FOUNDATION  
ROCHESTER, MINNESOTA  
POSTDOCTORAL POSITION**

A position is available immediately to participate in the development of a national center for genetic testing for Niemann Pick Type C disease. The project will include development of mutation screening assays, analysis of gene expression, study of genotype-phenotype correlation's and delineation of other genes important in the expression of NPC disease. Research will be centered in the DNA diagnostic laboratory with interactions with the biochemical genetics laboratory and with the Department of Medical Genetics.

Experience in molecular techniques is essential. Previous work with mutation screening assays is helpful, but all strong candidates will be considered. Salary will be determined by the successful candidate's experience. There is also an attractive benefit package. Mayo Foundation is a nonprofit clinical practice integrated with education and research in a unified multi-campus system. Interested individuals should send copies of curriculum vitae, summary of research interests, and the names of three references to:

**Karen Snow, Ph.D.**  
Mayo Foundation  
Division of Laboratory Genetics  
Hilton 970  
200 First Street S.W.  
Rochester, MN 55905

*Mayo Foundation is an Affirmative Action and Equal  
Opportunity Employer and Educator*

**EUROPEAN CONFERENCE**

**WILLIAM HARVEY  
RESEARCH CONFERENCES**

present the following two-day meeting

**THE ENDOTHELIUM:  
GATEWAY TO NEW THERAPEUTICS**

Chairmen: Professor Erik Änggård &  
Professor Nigel Benjamin

**Monday 22nd-Tuesday 23rd March 1999**  
Boston, USA

Faculty Includes:

A Baron, L Benet, R Busse, P Chowienczyk,  
J Cooke, V Dzau, D Harrison, J Metcalfe,  
E Ohlstein, P Vallance, P Vanhoute &  
Tim Warner

For further information contact:  
Dr Jenny MacLagan, William Harvey Research  
Conferences, Medical College, Charterhouse Square,  
London EC1M 6BQ, UK Tel: +44 171 982 6181  
FAX: +44 171 982 6084

E-Mail: [whconferences@mds.qmw.ac.uk](mailto:whconferences@mds.qmw.ac.uk)  
WebSite: <http://www.whconferences.demon.co.uk>

**EUROPEAN OPPORTUNITIES**

# nature cell biology

seeks

## Assistant Editors

The publishers of Nature have announced the forthcoming launch of Nature Cell Biology, an international journal covering all aspects of cell biology.

Nature Cell Biology will publish papers of the highest quality in all areas of cell biology, reflecting the multidisciplinary nature of the field and providing a forum for communicating important advances to a broad readership. Areas of natural emphasis will include cell signalling and second messengers, the cell cycle and cell division, membrane traffic and protein sorting, adhesion and gap junctions, proteolysis, apoptosis, molecular motor function and organisation of the nucleus. News and Views articles, reviews, editorials, opinion and correspondence will accompany the original research.

Nature Cell Biology seeks to recruit two Assistant Editors. These posts will be based in the London office. We are particularly interested in applicants with expertise in cytoskeletal dynamics, molecular motors, the extracellular matrix, apoptosis, proteolysis or organisation of the nucleus, but we would welcome applicants from outstanding candidates in any area of cell biology.

Applicants should have a strong research record in cell biology, a broad interest in the subject, excellent literary skills and a commitment to the communication of scientific ideas. They should hold or expect to shortly receive a PhD or equivalent degree and should be available to start no later than 1 January.

This is an exciting opportunity to participate in the launch of a major new journal and to play a key role in shaping its future. The successful candidates will work closely with the Editor on all aspects of the editorial process, including manuscript selection, commissioning and editing reviews, writing for the journal, liaising with the scientific community and attending international conferences.

Please submit a CV, a short (500-1000 words) News and Views-style article on an exciting and newsworthy recent development in cell biology, and a short covering letter explaining your interest in the post, to: The Editor, Nature Cell Biology.

Applications should be submitted as soon as possible and no later than 15th November 1998.

Porters South, 4-6 Crinan Street, London N1 9XW, UK  
Fax +44 171 843 4596; email [nature@nature.com](mailto:nature@nature.com)

**Macmillan Magazines Ltd**

## POSITIONS OPEN

### POSTDOCTORAL POSITIONS IN BIOCHEMISTRY AND MOLECULAR BIOLOGY

Positions are available to study the mechanism of action of specific deoxynucleotide-metabolizing enzymes (deoxycytidylate deaminase and thymidylate synthase) that are targets for cancer chemotherapy. Gene isolation and amplification as well as the regulation of their protein products in eukaryotic and prokaryotic systems are being studied. Once obtained, substrate and regulatory sites on the protein products will be determined by functional group-specific reagents and affinity labels. In addition, site-specific mutagenesis will be employed to establish the relation of structure to function in these enzymes as well as their subunit interaction, which is essential for the restoration of enzyme activity on mixing inactive mutants. The role of protein phosphorylation in these processes is also being investigated. Cloning, sequencing, and tissue culture experience is desirable. The research will be conducted in a well-equipped core facility. Compensation from Health Research Inc. dependent upon experience. Send résumé and three references to: Dr. Frank Maley, Wadsworth Center for Laboratories and Research, Empire State Plaza, Box 509, Albany, NY 12201. An Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION** in functional MRI available at The Institute for Cognitive and Computational Sciences at Georgetown University Medical Center in Washington, D.C. The Institute operates a Siemens 1.5 T whole-body Vision scanner with EPI capability. The position will focus on the development and applications of functional MRI of the human brain. The successful applicant must have a Ph.D., with some experience in magnetic resonance (preferably with fMRI). Applicants should send a curriculum vitae to: Guoying Liu, Ph.D., Assistant Professor, Georgetown University Institute for Cognitive and Computational Sciences, 3970 Reservoir Road N.W., Washington, DC 20007. E-mail: liu@giccs.georgetown.edu; Telephone: 202-687-6901.

**POSTDOCTORAL POSITIONS** for structure-function studies of blood coagulation factor VIII (one position) and for studies of the suppression of immune responses to factor VIII in a knockout mouse model of hemophilia A (two positions). Strong research experience and accomplishments as well as excellent written/verbal skills are required. Salary is funded by grants from NIH to Dr. Dorothea Scandella. Send curriculum vitae and names, addresses, and telephone numbers of three references to: American Red Cross, Holland Laboratory, Attn: Human Resources (HL-103), 15601 Crabbs Branch Way, Rockville, MD 20855.

An Equal Opportunity Employer. Minorities/Females/Disabled/Veterans.

Two **RESEARCH ASSOCIATE (POSTDOCTORAL)** and/or **RESEARCHER** positions available immediately to study plant geminivirus-host interactions. Require Ph.D. and molecular biology skills. Position One, experience in plant virology and interaction cloning preferred. Position Two, experience in plant molecular biology/biochemistry preferred. Send résumé and names of three references to: Dr. Tim Petty, Department of Microbiology, Box 7615, North Carolina State University, Raleigh, NC 27695-7615. Affirmative Action/Equal Opportunity Employer. Disabled applicants contact above individual.

**POSTDOCTORAL POSITION** available to study biosynthesis and localization of acetylcholine receptor at neuromuscular junction. Projects focus on identification of novel protein molecules that assist receptor folding, assembly, and synaptic targeting (website: <http://www.neurobio.pitt.edu>). Experience in molecular biology required. Send curriculum vitae to: Z. Z. Wang, Department of Neurobiology, University of Pittsburgh, E1440 BSTWR, Pittsburgh, PA 15261. E-mail: [zzwang@pitt.edu](mailto:zzwang@pitt.edu). The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

Two **POSTDOCTORAL POSITIONS** available immediately to study the mechanisms of transcriptional regulation by the retinoblastoma tumor suppressor gene product. Candidates with experience in molecular biology are encouraged to apply. Please send curriculum vitae and names of three references to: Paul Robbins, Ph.D., Department of Molecular Genetics and Biochemistry, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. E-mail: [probb@pop.pitt.edu](mailto:probb@pop.pitt.edu).

## POSITIONS OPEN

### POSTDOCTORAL FELLOWSHIPS UNIVERSITY OF NORTH CAROLINA Lineberger Comprehensive Cancer Center

Fellowship positions are available in the laboratory of Shelton Earp, Director of the Lineberger Center. The laboratory has funded projects studying signal transduction by three tyrosine kinase systems: (1) a novel calcium-dependent non-receptor tyrosine kinase (CADTK) that localizes to the cytoskeleton integrating receptor signals and cell structure; (2) c-mer, a novel receptor tyrosine kinase with distinct signaling properties in myelomonocytic cells; and (3) the EGF receptor and HER4 in breast cancer. Send curriculum vitae, research interests, and names, addresses, and telephone numbers of three references to:

Shelton Earp, M.D.  
UNC Lineberger Cancer Center  
School of Medicine, Campus Box 7295  
University of North Carolina  
Chapel Hill, NC 27599-7295

**POSTDOCTORAL POSITION** available immediately to study the role of RGS (regulator of G-protein signaling) proteins in heterotrimeric G-protein-mediated signal transduction processes (*Nature* 379:742, 383:172, 1996). Studies include structure-function relationships determining biochemical interaction of RGSs with G-proteins and the role of RGSs in inflammatory and immune processes through development of transgenic animals. Experience in cellular and molecular biology is required and familiarity with G-protein biochemistry is desirable. Please send curriculum vitae and the names, addresses, and telephone numbers of three references to:

Dr. Kirk Druey, Laboratory of Allergic Diseases  
NIAID/NIH/Twinbrook II, Room 203  
12441 Parklawn Drive  
Rockville, MD 20852 USA  
E-mail: [kdruey@atlas.niaid.nih.gov](mailto:kdruey@atlas.niaid.nih.gov)

NIH is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION

Immediate opening for Postdoctoral Research Associate to study either of the following: biochemistry of cell death regulators in inflammatory cells; immune dysfunction in cytokine-transgenic mice. Background in either biochemistry or cellular immunology is required. Send curriculum vitae and names of three references to: Michael B. Prystowsky, Chairman, Department of Pathology, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, F538, Bronx, NY 10461. FAX: 718-430-8541; e-mail: [prystows@acom.yu.edu](mailto:prystows@acom.yu.edu).

Equal Opportunity Employer.

**POSTDOCTORAL POSITIONS** available to study membrane traffic and molecular aspects of human disease in a spectacular southwest setting. Focus on rab GTPases, exo- and endocytic transport, epithelial polarity, and polycystic kidney disease. Qualified applicants with Ph.D. and experience in cell biology and protein biochemistry are encouraged to send curriculum vitae, brief overview of interests, and names of three references to: Angela Wandinger-Ness, Ph.D., Department of Pathology, University of New Mexico Health Sciences Center, Albuquerque, NM 87131. UNM is an Equal Opportunity/Affirmative Action Employer.

A **POSTDOCTORAL POSITION** is available to examine the biochemistry and genetics of thiamine transport as it relates to neuronal damage associated with thiamine deficiency and alcoholism. Long-term goals are understanding the molecular mechanisms that underlie differential sensitivity to thiamine deficiency as demonstrated by cell types and among individuals. For an overview of the research, please visit website: <http://www.biocourses.cas.vanderbilt.edu/singleton/singletonlab/index.html>. Contact: Dr. Charles Singleton, e-mail: [charles.k.singleton@vanderbilt.edu](mailto:charles.k.singleton@vanderbilt.edu).

**POSTDOCTORAL POSITION** available immediately to study roles of Bruton's tyrosine kinase in immune cell signal transduction (PNAS 94:3938; JBC 273:10979; JBC 273:16787; JEM 187:1235). Must be U.S. citizen or permanent resident to qualify for funding source. Send a curriculum vitae and names of three references to: Dr. Toshiaki Kawakami, La Jolla Institute for Allergy and Immunology, 10355 Science Center Drive, San Diego, CA 92121. E-mail: [toshi\\_kawakami@liai.org](mailto:toshi_kawakami@liai.org).

## POSITIONS OPEN

### POSTDOCTORAL POSITION DEVELOPMENTAL NEUROBIOLOGY

A position is available immediately for an Intramural Research Training Award (Ph.D., M.D., or equivalent) to study mechanisms directing cell-specific neuronal migration and axon pathfinding, using mouse olfactory explants as a model tissue. Applicant will focus on isolation of molecules directing LHRH neurons from olfactory epithelium into central nervous system. Techniques employed include cell and molecular biology and biochemistry. Applicants should have training in neurobiology, developmental biology, biochemistry, molecular biology, or related field. Salary is commensurate with experience.

Send a curriculum vitae, statement of research interests, and names of references to:

Dr. Susan Wray  
Cellular and Developmental Neurobiology Section  
Laboratory of Neurochemistry  
NINDS, NIH  
Building 36, Room 4D-20  
Bethesda, MD 20892-4130

For qualification requirements, contact: NINDS Personnel, Telephone: 301-496-5468. NIH is an Equal Opportunity Employer.

### BIOCHEMISTRY OF EXOCYTOSIS

**POSTDOCTORAL POSITION** in exocytosis is available to study the effects of specific proteins on distinct steps in  $Ca^{2+}$ -dependent exocytosis in adrenal chromaffin and other cells. Proteins include those of the rab3, SNARE, and latrotoxin pathways. Applicant should have expertise in molecular biology and biochemistry and a desire to combine biochemical and functional studies. Send curriculum vitae and bibliography to or contact: Dr. Ronald Holz, Department of Pharmacology, 2301 MSRB III, University of Michigan Medical School, Ann Arbor, MI 48109-0632. Telephone: 734-764-2267; FAX: 734-763-4450; e-mail: [holz@umich.edu](mailto:holz@umich.edu). Affirmative Action/Equal Opportunity Employer.

A **POSTDOCTORAL POSITION** is available immediately to study aspects of gene expression in tumorigenesis, invasion, and metastasis. Studies will include the regulation of transcription and mRNA splicing and the characterization of differentially expressed genes in human tumor cells. Candidates with a strong background in molecular biology/cell biology should send a curriculum vitae, description of research experience, and three references to: David Tarin, M.D., Ph.D., University of California, San Diego Cancer Center, 9500 Gilman Drive, La Jolla, CA 92093-0684. FAX: 619-822-2084. Informal enquiries to e-mail: [sgoodison@ucsd.edu](mailto:sgoodison@ucsd.edu).

**POSTDOCTORAL POSITION** available immediately to study the molecular genetics of human gynecologic cancers. Candidates must have the Ph.D. degree and a strong background in basic techniques of cell and molecular biology and molecular genetics, such as cell culture, molecular cloning, PCR, sequencing, and mutation analysis. Salary commensurate with experience. Send curriculum vitae and names of three references to: Dr. Jeff Boyd, Department of Surgery, Box 201, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. MSKCC is an Equal Opportunity Employer.

Master's-level position in chemical ecology, botany, microbiology, natural products, or related disciplines. Smithsonian Tropical Research Institute seeks **MANAGER** for NIH-funded (ICBG) bioprospecting project in Panama. Position requires benchwork, fieldwork, and proficiency in Spanish and English. Details available from e-mail: [tkursar@bci.si.edu](mailto:tkursar@bci.si.edu) or [capson@tivoli.si.edu](mailto:capson@tivoli.si.edu).

Send applications, including curriculum vitae, statement of career goals, three letters of reference to: Ms. C. Sucre, Smithsonian Tropical Research Institute, Unit 0948, APO AA 34002-0948, Miami, FL by December 14, 1998.

**POSTDOCTORAL POSITION** available to study the role of lipid mediators in cell aging and apoptosis. Experience in molecular biology preferred. Please send curriculum vitae along with names, addresses, and telephone numbers of three references to: Dr. Lina M. Obeid, Medical University of South Carolina, Division of General Internal Medicine/Geriatrics, 114 Doughty Street, Suite 143, P.O. Box 250779, Charleston, SC 29425.

Permanent U.S. resident or U.S. citizenship required. MUSC is an Equal Opportunity Employer.



## POSITIONS OPEN

### POSTDOCTORAL ASSOCIATE MIT

The Center for Space Research is seeking an individual to work in the Department of Chemical Engineering. The project involves the implementation of scientific requirements in the design and development of a Cell Culture Unit, which is being designed to serve as a basis for 10 years of biological research on the International Space Station. Specific project tasks will include scientific testing and evaluation of serial prototypes using a variety of cell and tissue cultures and the development of operating protocols for ground-based and space studies.

Requirements: a Ph.D. in biology or biochemical engineering, and experience in the areas of cell and tissue culture and in the design and operation of laboratory bioreactors. Proficiency with basic software (e.g., Microsoft Word and Excel) required.

Interested candidates should submit a résumé and cover letter referencing Job No. 98-0798C to: **Kenneth Hewitt, MIT Personnel, P.O. Box 391229, Cambridge, MA 02139-0013.** MIT is an Equal Opportunity/Affirmative Action Employer. MIT is a nonsmoking environment.

**POSTDOCTORAL ASSOCIATE.** Tissue engineering project in the Harvard-MIT Division of Health Sciences and Technology. Enthusiastic candidate to work at MIT on a NASA-funded tissue engineering project involving the *in vitro* cultivation of engineered skeletal and cardiovascular tissues and their uses *in vitro* (response to molecular, mechanical, or genetic manipulations) and *in vivo* (to repair defects in experimental animals). Specific project tasks include preparation of cells and biomaterial scaffolds, cultivation of cell-polymer constructs in bioreactors, *in vivo* implantation, and molecular, histological, biochemical, and mechanical analyses. Requirements: Applicants should have a Ph.D. in biology or biochemical engineering, and research experience in the areas of cell and tissue culture, bioreactors, and related analytical methodologies. Please send résumés and the names and telephone numbers of at least three references to: **Dr. Lisa Freed, MIT, 77 Massachusetts Avenue, Room E25-342, Cambridge, MA 02139.** E-mail: [lfreed@mit.edu](mailto:lfreed@mit.edu).

### POSTDOCTORAL POSITION IN SIGNAL TRANSDUCTION RESEARCH

NIH-funded Postdoctoral position available immediately to study  $Ca^{2+}$ /calmodulin signaling in cancer and diabetes. We have identified new calmodulin targets in these cascades. See website: <http://rics.bwh.harvard.edu/sackslab>.

Background in biochemistry, molecular biology, or cell biology. U.S. citizen/permanent resident with Ph.D. within last three years. Send curriculum vitae and three references to: **Dr. David B. Sacks, Brigham and Women's Hospital/Harvard Medical School, Thorn 530, 75 Francis Street, Boston, MA 02115.** FAX: 617-279-6921; e-mail: [dsacks@bics.bwh.harvard.edu](mailto:dsacks@bics.bwh.harvard.edu).

**POSTDOCTORAL POSITION** available to participate in an NIH-funded project on the molecular mechanisms of potassium channel function in the kidney. The study involves elucidating the nature and role of subunit interaction domains. Experience with patch clamping is required. Experience with molecular techniques is highly desirable. Candidates must have a Ph.D., M.D., or equivalent. Send curriculum vitae, description of research experience, and names of three references to: **Dr. Paul A. Welling, University of Maryland, School of Medicine, Department of Physiology, 655 West Baltimore Street, Baltimore, MD 21201.** FAX: 410-706-3851; e-mail: [pwelling@umaryland.edu](mailto:pwelling@umaryland.edu).

### RESEARCH/POSTDOCTORAL FELLOW

Research Associate and a Postdoctoral Fellow to study the role of chromatin structure and specific transcription factors in lineage-specific expression of genes during blood cell development, focusing on platelets. An NIH training grant funding the postdoctoral position requires U.S. citizenship or permanent residence. Please send curriculum vitae and names of references to: **Dr. Katya Ravid, Department of Biochemistry, K225, Boston University School of Medicine, 715 Albany Street, Boston, MA 02118.** FAX: 617-638-5339. Boston University is an Affirmative Action and Equal Opportunity Employer.

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**POSTDOCTORAL POSITIONS** in cellular electrophysiology. Four positions are available immediately in the following laboratories:

One position to study regulation of exocytosis in single anterior pituitary corticotropes. Utilizes calcium-sensitive dyes and high-resolution measurements of cell capacitance. Patch clamp experience required. Investigator: **Aileen Ritchie, Ph.D., Department of Physiology and Biophysics, e-mail: [aritchie@utmb.edu](mailto:aritchie@utmb.edu).**

One position to continue ongoing *ex vivo* studies of central nervous system-active drugs given chronically. Effects are recorded from brain slices of rat septal nuclei *in vitro*. Experience with whole-cell patch clamp required. Investigator: **Joel Gallagher, Ph.D., Department of Pharmacology and Toxicology, e-mail: [joelggall@utmb.edu](mailto:joelggall@utmb.edu).**

Two positions to study mechanisms of synaptic modification in fear conditioning, epilepsy, and chronic cocaine treatment. Utilizes patch clamp recording in slices from animal models of the different forms of synaptic plasticity. Electrophysiological training required. Investigator: **Patricia Shinnick-Gallagher, Ph.D., Department of Pharmacology and Toxicology, e-mail: [psgallag@utmb.edu](mailto:psgallag@utmb.edu).**

To apply, please send a curriculum vitae, description of research experience, and references to each Investigator of your choice at the appropriate department: **University of Texas Medical Branch, 301 University Boulevard, Galveston, TX, 77555.** UTMB is an Equal Opportunity/Affirmative Action Employer/Minorities/Females/Disabled/Veterans.

### POSTDOCTORAL POSITION

Postdoctoral positions available immediately to study the mechanism of antagonism of toxicants with recombinant hydrolytic enzymes encapsulated into carrier systems (RBC, liposomes, and polymeric carriers). Knowledge of enzyme kinetics, pharmacokinetics, protein isolation, and toxicology essential. Knowledge of some of the carrier systems helpful. Candidate should have completed Ph.D. training. Interested applicants should send (1) one-page summary of research accomplishments and interests, (2) curriculum vitae, and (3) names of three references to: **Dr. James L. Way, Department of Medical Pharmacology and Toxicology, Texas A&M College of Medicine, Reynolds Medical Building, College Station, TX 77843-1114.** E-mail: [jlway@tamu.edu](mailto:jlway@tamu.edu). Texas A&M is an Equal Opportunity Employer.

### POSTDOCTORAL POSITION MOLECULAR MECHANISMS OF PSYCHIATRIC DISORDERS

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### POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE POSITION

An NIH-funded position is available immediately to study angiogenesis inhibitors, mechanism of neovascularization, and apoptosis. Approaches include protein purification, cellular localization, and expression. Experience in protein chemistry and histochemistry is required. Send curriculum vitae to: **Dr. Jianxing Ma, Department of Ophthalmology, Medical University of South Carolina, 167 Ashley Avenue, Charleston, SC 29425.** E-mail: [majx@musc.edu](mailto:majx@musc.edu).

**POSTDOCTORAL POSITION** immediately available for NIH-funded research to study the molecular mechanisms of trophoblast differentiation and human placental lactogen gene expression. Ph.D. or M.D. with experience in molecular biology required. Send curriculum vitae, description of research experience, and names of three references to: **Dr. Stuart Handwerger, Division of Endocrinology, Children's Hospital Research Foundation, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.** E-mail: [stuart.handwerger@chmcc.org](mailto:stuart.handwerger@chmcc.org).

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### POSTDOCTORAL POSITION

A Postdoctoral position is available to join a research program on the role of new tyrosine phosphorylation pathways in digestive tissues. A strong background in molecular biology and transcription/signal transduction analysis is required; some training in cell culture or histological methods is desirable. Please send curriculum vitae and names of three references to: **Dr. Robert H. Diamond, Gastroenterology Division, University of Pennsylvania School of Medicine, 600 CRB, 415 Currie Boulevard, Philadelphia, PA 19104.** E-mail: [diamondr@mail.med.upenn.edu](mailto:diamondr@mail.med.upenn.edu). Equal Opportunity Employer/Affirmative Action.

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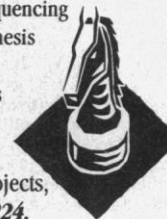
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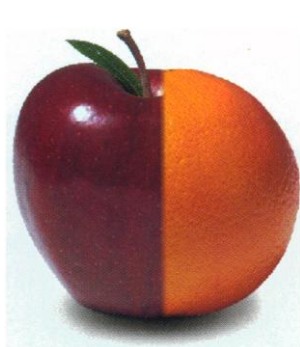
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