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Contact

Submission of papers for the evolution and developmental biology special feature or inquiries about submission should be sent, as soon as possible, to Guy Riddihough:
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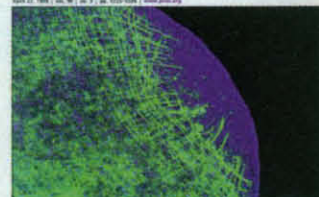
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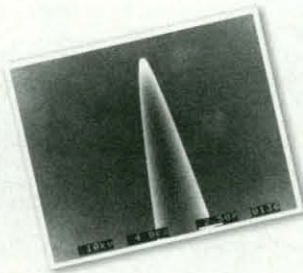
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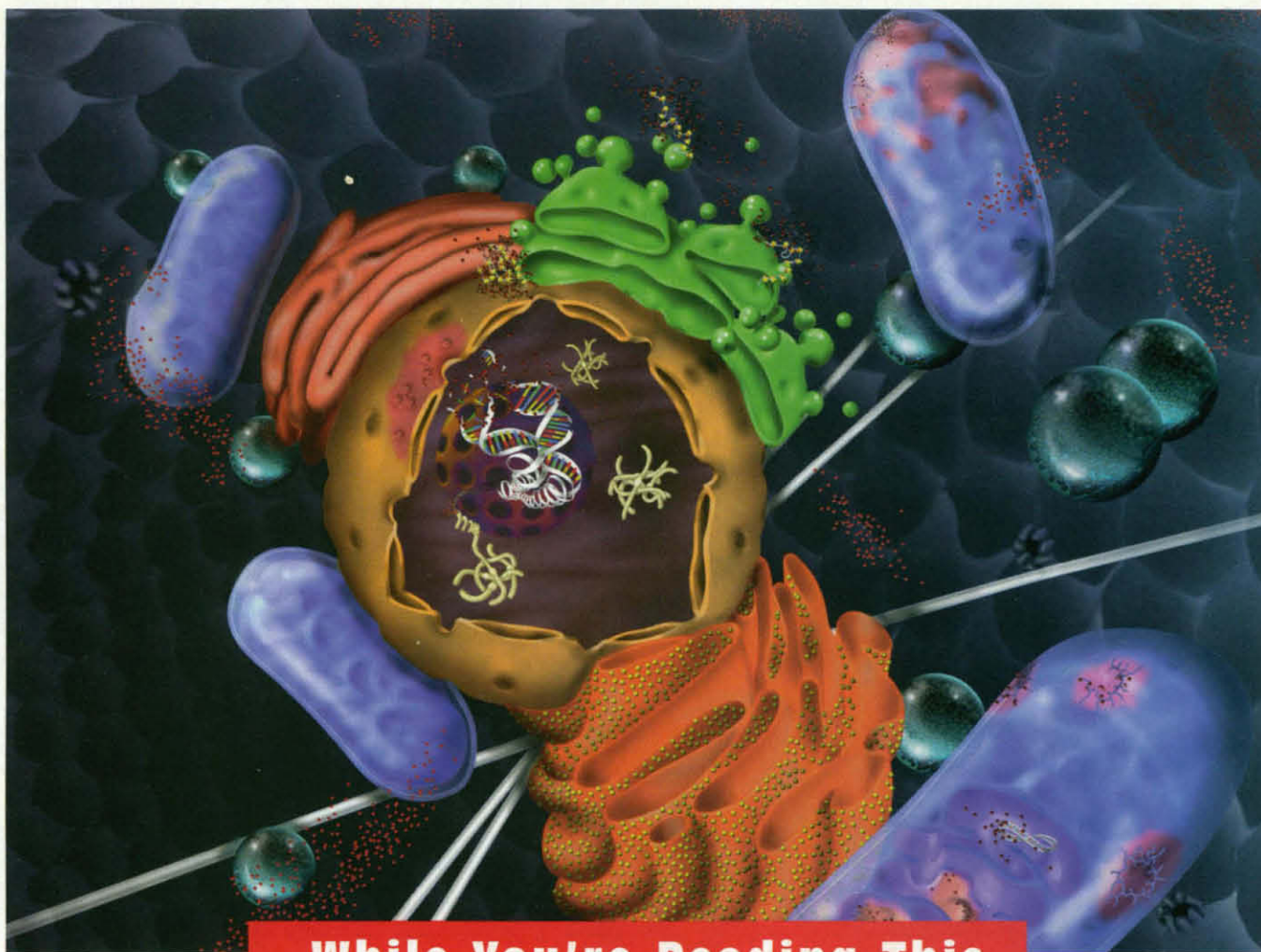
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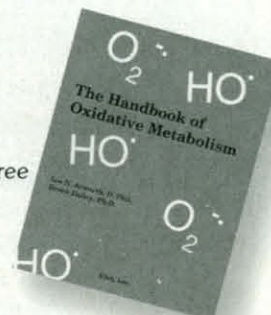
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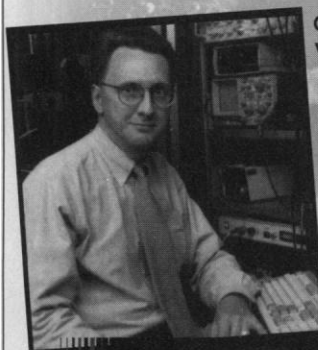
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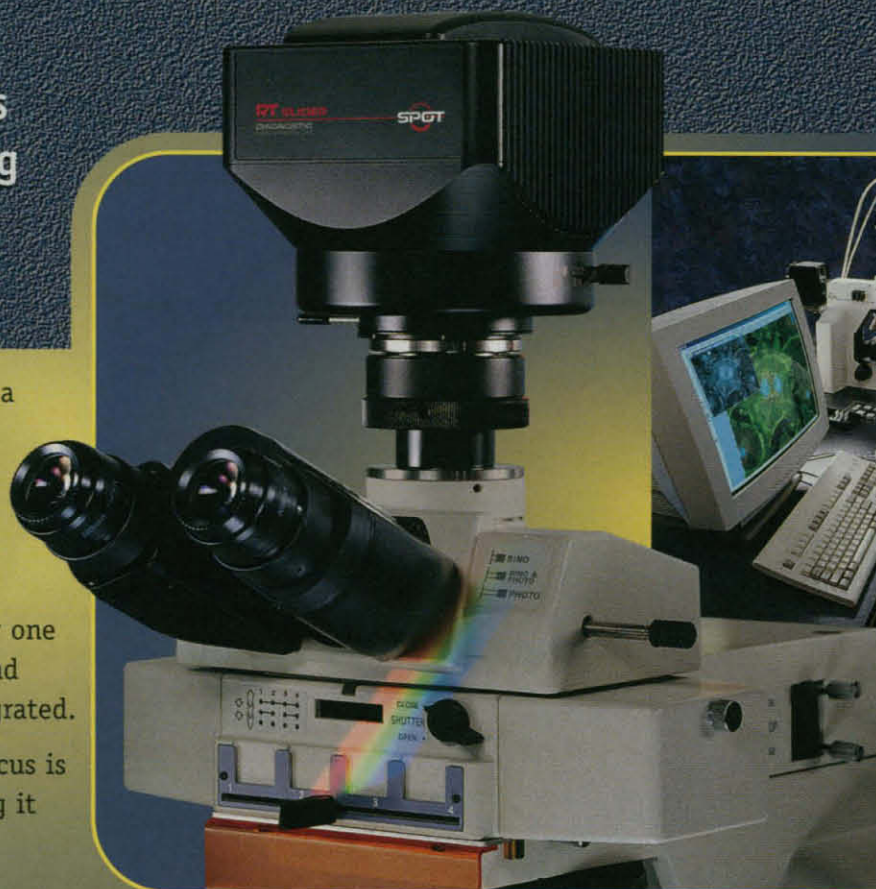
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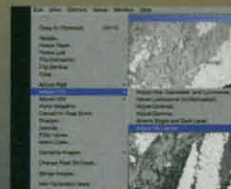
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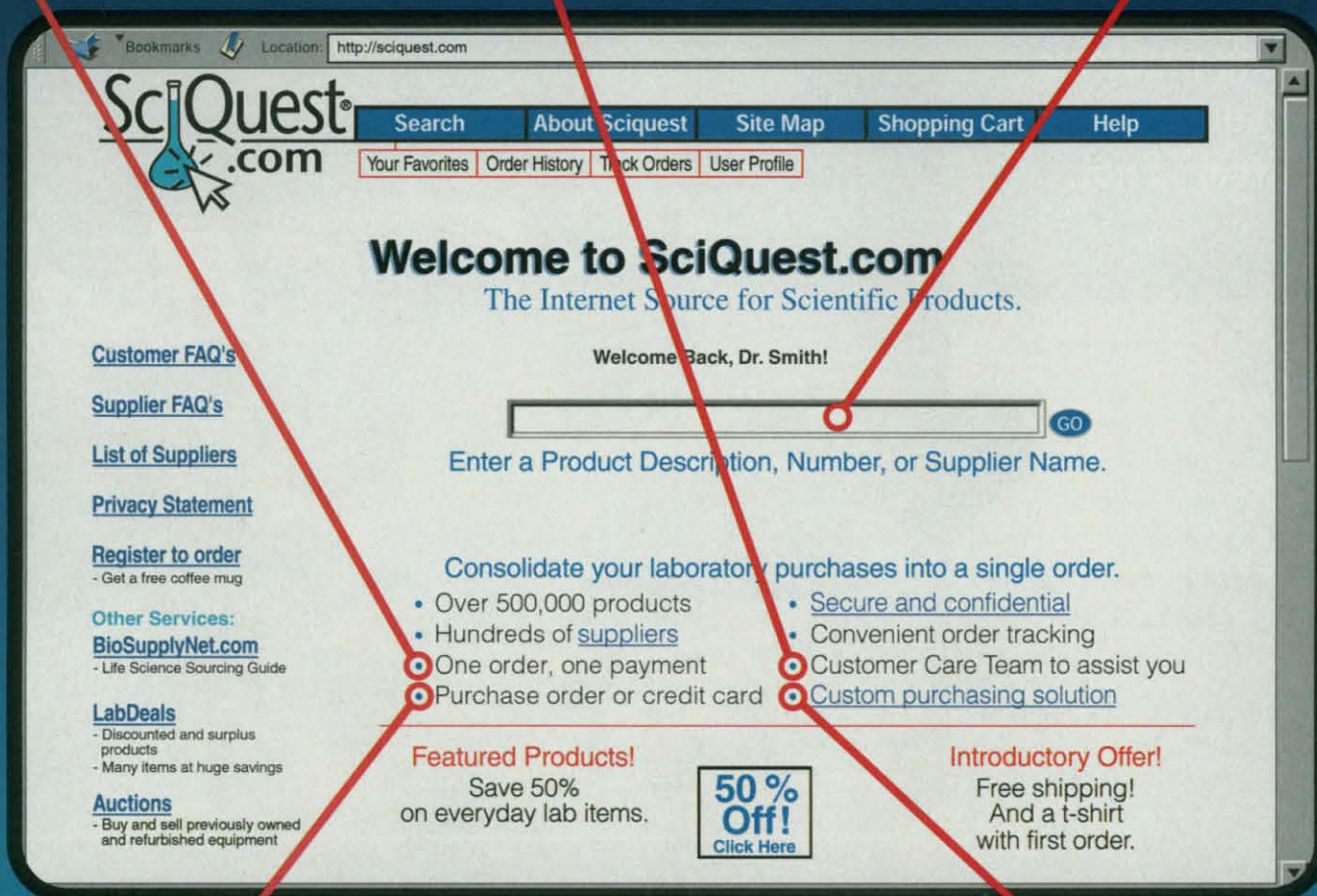
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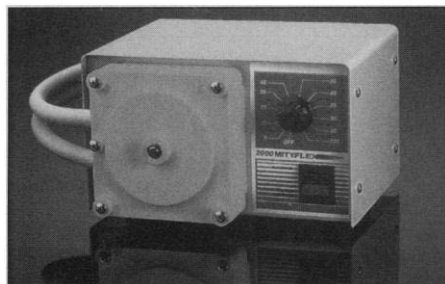
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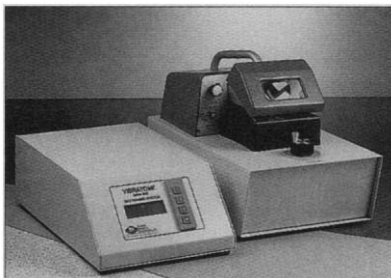
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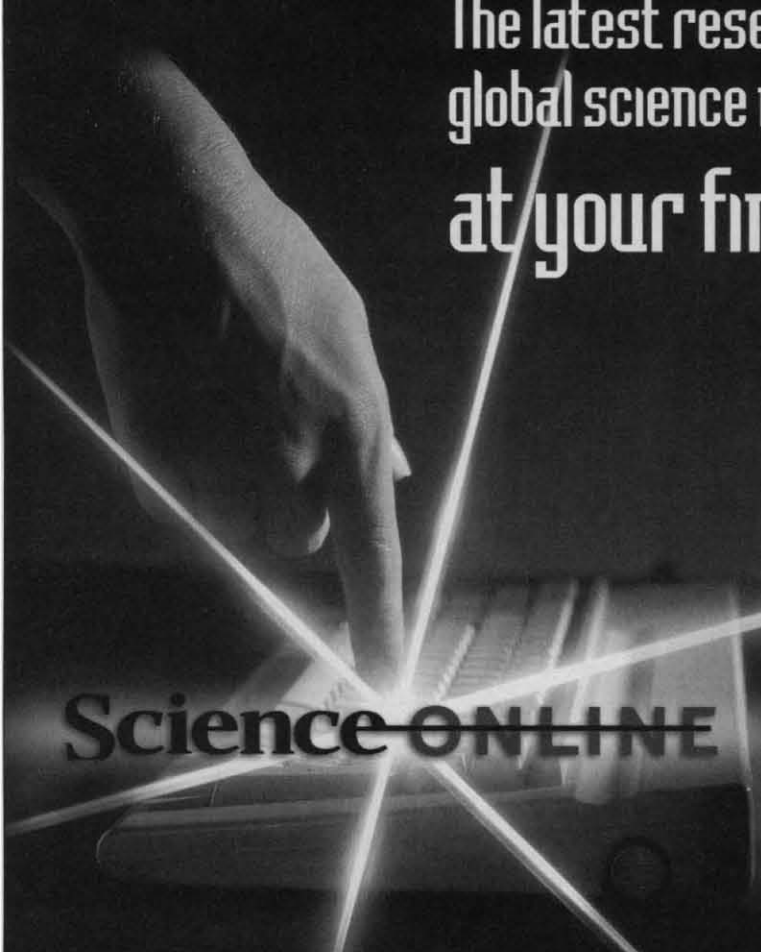
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We also welcome applications from related fields, including but not limited to: geodynamics of landscape evolution, paleoseismology, structural geology, and tectonics. The successful candidate is expected to develop an internationally visible research program and to teach at both the graduate and undergraduate levels.

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Applicants should provide a curriculum vitae, a statement of research, and a statement of philosophy and goals of academic leadership. The applicant should arrange to have four letters of reference sent to the Department of Biological Sciences. Please include the names, addresses, telephone numbers, and e-mail addresses of these four references in the letter of application. All materials should be sent to:

Jean Witkowski
Department of Biological Sciences
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Review of applications will begin November 22, 1999.

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Applicants should have a Ph.D. or M.D. or other advanced degrees and will be expected to establish a dynamic research program and teach in graduate and professional school courses. Candidates should send a curriculum vitae, three letters of reference, a brief summary of current research, and a brief description of future research plans.

Applications should be sent by December 15, 1999, to:

Human Genetics Search Committee
c/o Laura Baxter, Box 0448
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San Francisco, CA 94143-0448
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Focus on Careers: Neuroscience



The "decade of the brain" has produced a boom in neuroscience research. In coming years, the research will produce tangible results. To do so, the global research community needs well-qualified scientists.

Neuroscience dates back at least 100 years, and for the last quarter-century researchers in the discipline have made significant progress. The boom in discovery and understanding has been particularly noticeable since July 1990, when U.S. President George Bush proclaimed the 1990s as the "decade of the brain."

During the past ten years, scientific teams have gained fresh understanding of the brain's pathways, largely through new imaging techniques, and have discovered chemical ways to influence those pathways, based on fundamental methods of drug discovery. That work has led to effective new drugs that target conditions as diverse as Alzheimer's disease and migraine. A special symposium of the Society for Neuroscience, held in April, celebrated "the extraordinary results neuroscience has delivered" during the 1990s, and looked forward to even more promising discoveries in the 21st century.

Pharmaceutical firm Merck & Co., Inc. is among the leaders in the race to develop drugs based on research in neuroscience. The company has set up a global effort in neuroscience. Merck recently widened its role by acquiring SIBIA Neurosciences, Inc., a California firm engaged in the discovery and development of small-molecule therapeutics for treating a variety of disorders. Here, R&D executives in the United States and the U.K. discuss Merck's work in neuroscience and the opportunities that the company offers to recruits in the field.



Big Boom in Brain Science by Peter Gwynne

BLUE BELL, Pennsylvania: "Merck is expanding its neuroscience efforts," says Scott Reines, vice president for clinical research at Merck. "We're setting up a global neuroscience effort, from the U.S. to the U.K., Canada, and Japan. We see it as almost an explosion of activity in the past several years."

The company's efforts span a wide variety of conditions. "We have ongoing studies on the progress and prevention of Alzheimer's disease and studies on depression. Programs still in the laboratory are focused on neurodegeneration in the broad sense, and anxiety," says Reines. "We recently engaged in a large program for the treatment of migraine, which resulted in the drug Maxalt," adds Mark Kramer, senior director in clinical neuroscience. "We also have a very

large effort in neuropeptide research. We are working with substance P antagonists (SPAs). These preclinical and clinical programs are designed to take these molecules from the bench and transform them into treatments for patients with psychiatric and related conditions, and other disorders."

Merck recently acquired SIBIA to expand its neuroscience horizons further. "SIBIA has strong intellectual property positions in ion channel research," says Reines. "We'll be able to work with them in areas that can lead to treatments for neurodegenerative, neuropsychiatric, and neurological disorders."

Merck seeks recruits from several disciplines for research and development work in neuroscience. "We're looking for people with very solid backgrounds in a variety of fields,"

Fellowships for Biological and Biomedical Sciences

The Howard Hughes Medical Institute announces the 2000 competitions for fellowship programs that support training in fundamental biological and biomedical research. Awards, based on international competitions, focus on research directed to understanding basic biological processes or disease mechanisms. Fellowships may be held at academic or nonprofit research institutions.

Predoctoral Fellowships in Biological Sciences

Up to five years of support for full-time graduate study toward a Ph.D. degree in cell or developmental biology, genetics or molecular biology, immunology or microbiology, mathematical biology or epidemiology, neuroscience or physiology, structural biology or biochemistry, or related fields. Applicants must not have completed the first year of postbaccalaureate graduate study in biology. *Application deadline: mid-November.*

Postdoctoral Research Fellowships for Physicians

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

Research Training Fellowships for Medical Students

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

Research Scholars at the National Institutes of Health

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

2000 Program Announcements and Applications

For Predoctoral Fellowships:

Hughes Fellowship Program
Fellowship Programs Unit
National Research Council
2101 Constitution Avenue
Washington, DC 20418
United States of America
Telephone (202) 334-2872
Fax (202) 334-3419
E-mail infofell@nas.edu
<http://national-academies.org/osep/fo>

For Other Programs:

Howard Hughes Medical Institute
Office of Grants and Special Programs
Department AN00
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789
United States of America
Telephone (301) 215-8889
Fax (301) 215-8888
E-mail fellows@hhmi.org
www.hhmi.org/fellowships

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

Merck Research Laboratories, a world leader in pharmaceutical research, currently has several outstanding career opportunities at our **West Point, PA** location (only 25 miles NW of Philadelphia).

NEUROSCIENCE RESEARCH

We are seeking to expand efforts in Central Nervous System (CNS) drug discovery to identify novel therapeutic approaches in the areas of analgesia, migraine, neurodegeneration, and psychotherapeutics.

Ph.D. Scientists

The successful candidates will utilize molecular and cellular techniques to identify and validate new CNS drug targets. Qualifications include a Ph.D. or equivalent and 2-4 years' of postdoctoral experience. Demonstrated expertise in CNS neuroanatomy, neurochemistry, neurobiology, neurotransmitter receptor pharmacology and/or ion channel function is a requirement, as is a record of publication and individual accomplishment. Outstanding communication skills and an ability to work within a group setting are also prerequisites in this multidisciplinary team environment. **Respond to Ad # KK/B-202, WP26-265**

B.S./M.S. Molecular/Cell Biologists

The successful candidates should have a strong grasp of traditional and molecular cell biology techniques involved in the analysis of ion channels or signal transduction pathways. Qualifications include a B.S., M.S., or equivalent in Biology, Biochemistry, or a related field with 2 years of laboratory experience. A strong background or experience in primary cell culture or 96-well cell-based assay development is desirable. Experience in molecular biology including but not limited to cDNA cloning, the preparation and characterization of stably transfected cell lines, and PCR as well as gene expression analysis, gene arrays or Northern blots is required. Excellent communication skills, both oral and written, and an ability to work independently but within a team setting are also necessary. **Respond to Ad # KK/B-203, WP26-265**

B.S./M.S. Electrophysiologist

The successful candidates should have a strong grasp of membrane biophysics, electrophysiology and pharmacology of ion channels. Individuals with experience in single cell and/or multicellular neurophysiology are encouraged to apply. Qualifications include a B.S., M.S., or equivalent in Physics, Engineering, Biophysics, Biology, Biochemistry, or a related field with 2 years of laboratory experience. A background in neuroanatomy and/or neurophysiology is helpful and skills in the isolation of neurons and primary cell culture are desirable. Any experience in molecular biology including the preparation and characterization of stably transfected cell lines, PCR, and gene expression is a plus. Excellent communication skills and an ability to work independently but within a team setting are essential. **Respond to Ad # KK/B-204, WP26-265**

GENETIC AND CELLULAR TOXICOLOGY

B.S./M.S. Biologist/Staff Biologist

The Genetic and Cellular Toxicology unit in The Department of Safety Assessment has an immediate opening for a highly motivated person who will be responsible for the performance of *in vitro* and *in vivo* tests for DNA damage and research on mechanisms of chemical carcinogenesis. A B.S. or M.S. in Biology, Biochemistry, and/or Molecular Biology is required. A strong academic record and experience in the fields of genetic toxicology, molecular biology and molecular carcinogenesis/cancer research are preferred. **Respond to Ad # D207, WP45-311RS**

An excellent salary and comprehensive benefits program accompany these positions at our modern research facilities. Please send your curriculum vitae, a cover letter and the names of 3 references to: **Merck Research Laboratories**, (indicate appropriate Ad #), **P.O. Box 4, West Point, PA 19486**. Only candidates considered for interviews will receive responses. No phone calls please. We are an Equal Opportunity Employer, M/F/D/V.



says Reines. "A background in medicinal chemistry is very valuable. There's a tremendous demand for chemists in all areas of pharmacological research." The company prefers broad undergraduate training. "We feel that the undergraduate science major could be in any basic discipline," continues Reines. "Some colleges are creating neuroscience majors, but we're not sure that's the way to go, because they don't necessarily give you a solid background in foundation subjects. We look for postgraduate training in neuropharmacology, neurobiology, genetics, or genomics."

As its expanding R&D effort in neuroscience leads to promising drug candidates, the company increasingly seeks scientists with experience in clinical studies. "We need to bring in very good scientists and very clear thinkers who are able to meet an organized approach to clinical development," says Kramer. "It helps if they've had experience conducting clinical trials. It's very important that they have a grasp of preclinical science as well. Many times the clinicians find themselves in the position of bridging clinical and preclinical activity." The most desirable training for that niche, adds Reines, is a M.D.-Ph.D. degree. However, he adds, "it's critical that candidates have demonstrated research skills and understand scientific methodology."

Merck does not regard industry experience as essential. "You could have a good track record as a faculty member, or in your Ph.D.," says Reines. "We train clinical research coordinators on the job," adds Kramer. "They can take courses in clinical research technology through the Drug Information Agency, as well as in-house."

Life scientists with Bachelor's degrees can also find work implementing and handling data for clinical trials. "The demand is very competitive," says Reines. "Salaries for recent college graduates in clinical areas have gone up rapidly in pharmaceutical companies and contract research organizations. And the demand for biostatisticians is enormous."

What about the intangibles? "We work in a network of people," says Kramer. "So it's essential to have good people skills. Communication in both written and verbal form is critically important. There's a constant barrage of information that needs to be processed." Adds Reines: "We're looking for the brightest people, who have demonstrated a strong work ethic and an ability to think scientifically. We're looking for potential leaders of the company who will fit into our ethical environment. And we're looking for diversity in backgrounds. The key is excellence."

In Europe, a Range of Fundamental Research



HARLOW, England: "We cover most areas of neuroscience: psychiatric disorders, including anxiety; depression; Parkinson's disease; and Alzheimer's disease," says Ruth McKernan, director of biochemistry at Merck's Neuroscience Research Centre. "All our programs are based on fundamental research. We do the early stages of drug discovery, from generation of new ideas to the production of potential drug candidates. Once we've identified the best compounds, the team in the United States takes the process further."

The 13-year-old center employs about 200 scientists, trained in several disciplines. It recruits continuously. "We always have a strong demand for chemists," says McKernan. "On the biological side, we tend to hire people trained in broad-based subjects, with some additional expertise such as computing or biophysics." The math/physics "is that little bit extra," she explains. "We don't employ lots of mathematicians or physicists." In reference to life scientists, she continues, "a lot of our assay development is very molecular, so people with backgrounds in molecular and cell biology are good for us. We also need scientists with *in vivo* and animal-behavior skills. Since those subjects are not formally taught as much as they used to be, there's a smaller population of classically trained *in vivo* pharmacologists. Drug companies need those people, but we sometimes find it difficult to find them."

The center recruits widely in terms of geography, as well as discipline. "A large proportion of our scientists at the Ph.D. level have spent time in the United States or Japan," says McKernan. "We also have an increasing number of scientists from continental Europe."

Like the rest of Merck's R&D laboratories, the Neuroscience Centre strongly emphasizes collaborative activity. For example, it has several joint programs with research groups at nearby Cambridge University. And internal investigations rely heavily on teamwork. "We are very team- and project-based," explains McKernan. "Once we have a promising drug candidate, we put together a multidisciplinary project team from all relevant areas, including clinical development and toxicity."

As a result, the center seeks team players in its recruiting. "Scientists who have very strong personal ownership of their research will probably be better off in academia," McKernan continues. "People have to work together on various project teams. Beyond excellent scientific ability, flexibility, perspicacity, and communication skills are excellent attributes." ■

For further valuable career features, go to www.scienceonline.org, click on **Science Careers**, then click on **Advice and Perspectives**

ST. LAWRENCE UNIVERSITY

BIOLOGY

The Biology Department of St. Lawrence University invites applications and nominations for one tenure-track position at the assistant professor level, two term positions as Visiting Assistant Professor and one science support specialist.

ASSISTANT PROFESSOR (TENURE-TRACK) ENDOCRINOLOGY - CELL BIOLOGY

A Ph.D. as of fall 2000 in endocrinology or a related field with a major emphasis at the cellular level is required. The successful candidate will be expected to help teach general biology on a rotational basis and to develop upper-level courses according to his/her expertise. Preferred courses might include Endocrinology, Cell Biology/Physiology, Histology, Gender and Health Issues or other related courses.

VISITING ASSISTANT PROFESSOR (ONE YEAR) MICROBIOLOGY - GENETICS

A Ph.D. as of fall 2000 in Microbiology or a related field is required. The successful candidate will be expected to teach courses in Microbiology and Genetics, both at the 200 level, as well as upper-level courses according to their expertise.

VISITING ASSISTANT PROFESSOR ECOLOGY - BOTANY (Three semesters, starting January 2000)

A Ph.D. in Botany, Ecology or a related field is required. The successful candidate will be expected to teach our Ecology and Vascular Plants courses, as well as two other upper-level courses according to their expertise. **This position has a January 15, 2000 start date** and may be extended assuming satisfactory performance.

GENERAL BIOLOGY SPECIALIST

A Masters degree in Biology or a related sub-discipline is required. The successful candidate will work in an invigorating environment with the present lab coordinator/instructor and other faculty to continue the development of our introductory courses, especially in the laboratory. This position affords the opportunity to explore varied and innovative teaching pedagogies. Experience in the use of computers and instructional technologies (especially the internet) is expected as are good interpersonal skills for working in a collaborative environment. A demonstrated ability to assist students in collaborative, investigational learning and in outcome assessment will be favored. Eventual academic advising of students interested in science will be expected as part of the position.

Those candidates hired for the tenure track and general biology specialist positions will be required to participate in the continued development of the introductory Biology courses towards a more investigational, inquiry-based, collaborative, and personalized learning environment. This would include teaching in these courses on a rotational basis. A demonstrated expertise in the use of computers and instructional technologies is preferred. The normal academic load is two courses per semester. The development of a research program that involves undergraduate student majors will also be expected for the tenure track position.

As part of the general education curriculum at St. Lawrence, all first year students enroll in a team-taught course that seeks to develop skills in critical thinking, writing and research. The successful tenure track candidate will have the opportunity to teach in the First-Year Program.

Interested candidates should submit a letter of application that specifies the position being applied for, a curriculum vitae, a statement of teaching experience and philosophy that reflects innovative and progressive pedagogies, a statement of research interest (tenure track position only), and have three letters of recommendation forwarded to **Dr. T. Budd, Biology Department, St. Lawrence University, Romoda Drive, Canton, NY 13617**. The search committee will begin reviewing applications on Nov. 22, 1999.

St. Lawrence University, chartered in 1856, is the oldest coeducational university in New York State. An independent, non-sectarian, private university firmly committed to undergraduate liberal arts education, St. Lawrence offers its 1900 students a unique and friendly learning environment. Located in Canton, New York, the neighboring St. Lawrence River Valley, the Adirondack State Park, and the Canadian cities of Ottawa and Montreal offer the University community many social, cultural and outdoor activities. The University homepage is at: <http://www.stlawu.edu> and the biology homepage is: <http://it.stlawu.edu/~biologya>

St. Lawrence University is an Affirmative Action/Equal Employment Opportunity employer. Women, minorities, veterans, and persons with disabilities are encouraged to apply.

ASSISTANT PROFESSOR - PHARMACOLOGY

The Department of Pharmacology, Faculty of Medicine, University of Manitoba, invites applications for a full-time tenure track position at the level of Assistant Professor commencing January 1, 2000 or as soon thereafter as possible.

The candidate will be expected to establish an independently funded research program involving cellular and molecular mechanisms underlying neurodegenerative disorders (e.g. Alzheimer's, Parkinson's HIV-1 dementia, stroke). Candidates with clear evidence of scientific expertise in modern molecular techniques and/or signal transduction mechanisms are encouraged to apply. The successful candidate will be an integral member of, and their newly constructed laboratory will be located in, the Neurodegenerative Disease Research Group at the St. Boniface Research Centre. This Research Group is fully integrated with the Faculty of Medicine's Neurodegenerative Disease Research Group that has broad expertise in neuropharmacology, neurochemistry, neuroanatomy and neuropathology.

Applicants must have an M.D. or Ph.D. degree with at least three years of relevant postdoctoral experience. In addition to establishment of an independently funded and highly successful research program, the incumbent will be expected to apply for their own salary from external agencies, effectively teach neuropharmacology to graduate, undergraduate and medical students, and participate in the normal academic duties in the Department of Pharmacology. The salary range is from \$41,690 - \$50,000 per annum. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is first directed to Canadian citizens and permanent residents.

Please forward a resume, statement of research goals and an outline of teaching experience to **Dr. D. Bose, M.D., Ph.D., Chairman Search Committee, Department of Pharmacology, University of Manitoba, Faculty of Medicine, 753 McDermont Avenue, Winnipeg, Manitoba, R3E 0W3, Canada** (E-mail: bose@ms.umanitoba.ca; Ph: (204) 789-3554). Arrangements should be made for three letters of reference to be sent. **Closing date for receipt of applications: DECEMBER 31, 1999.**

ASSISTANT OR ASSOCIATE PROFESSOR - PHYSIOLOGY

The Department of Physiology, Faculty of Medicine, University of Manitoba invites applications for a full-time tenure track position at the level of Assistant or Associate Professor commencing January 1, 2000 or as soon thereafter as possible.

The candidate will be expected to establish an independently funded research program involving the vertebrate spinal cord and teach neuroscience to undergraduate, graduate and postgraduate students. Candidates with interests in receptor and channel function, developmental neurobiology or systems neurophysiology are encouraged to apply. The successful candidate will join six members of the multidisciplinary Spinal Cord Research Group located primarily within the Department of Physiology. Current projects use *in vitro* and *in vivo* preparations to explore the pharmacology and physiology of spinal cord systems involved in locomotion and micturition at both the single cell and systems levels (see <http://www.scrs.umanitoba.ca>)

Applicants must have an M.D. or Ph.D. degree with postdoctoral experience. Those with demonstrated research and teaching experience and who are currently holding an academic position may be considered at the Associate Professor level. The University of Manitoba encourages applications from qualified women and men, including members of visible minorities, Aboriginal peoples, and persons with disabilities. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Please forward a resume, statement of research goals and an outline of teaching experience to **Dr. Dave McCrea, Department of Physiology, University of Manitoba, Faculty of Medicine, 730 William Avenue, Winnipeg, Manitoba, R3E 3J7, Canada**. Arrangements should be made for three letters of reference to be sent. **Closing date for receipt of applications is DECEMBER 31, 1999.**

The Endowment for

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in

Biomedical Research

at

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UT Southwestern is pleased to announce the continuation of the Endowed Program for Scholars in Biomedical Research. The Program, which is fully funded from private endowment, will provide \$600,000 over four years to support the research activities of each new **Assistant Professor** (tenure track) appointed to the Program; five will be appointed annually. In addition, regular funding for salary, as well as research space, will be provided by the medical school department or research center offering the appointment. Positions in both **basic science** and **clinical departments** are available. The goal of the program is to assure a successful beginning of the research careers of an ever-growing cadre of outstanding young investigators at UT Southwestern.

For detailed information about currently available faculty positions, please access our web page: <http://www.swmed.edu>

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Faculty Position in Molecular Neuroscience



Washington

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Department of Anatomy and Neurobiology

We seek an individual taking innovative molecular or cellular approaches to fundamental questions in neural development, function, or behavior for a tenure track position as Assistant Professor in the Department of Anatomy and Neurobiology at Washington University School of Medicine (<http://thalamus.wustl.edu>). The department houses 25 active research labs in neurobiology, and it is part of a much larger interdepartmental neuroscience program (<http://thalamus.wustl.edu/Neuroweb>). Excellent shared facilities are available for molecular and cellular neuroscience, including electron, confocal and two-photon microscopy, and transgenic mouse studies. Both the department and the neuroscience program offer numerous opportunities for scientific interactions and collaborations. We encourage email applications to susan@pcg.wustl.edu (send a synopsis of research interests and a CV including names and phone/fax/email of three references) or regular mail applications: Dr. David Van Essen, Anatomy and Neurobiology, Box 8108, Search Committee, Washington University School of Medicine, 660 S. Euclid Avenue, St. Louis, MO 63110, by December 31, 1999.

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Applications from minorities and women are encouraged.*

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ASSISTANT SCIENTIST - FERMENTATION

Working with the engineers, bioanalytical virologists, bacteriologists, immunologists, and chemists supporting the development of new Animal Health vaccines, you will help develop and produce clinical supplies for animal testing, conducting all operations in strict compliance with USDA and EU regulatory requirements under GLP. As needed, will also support virology, bacteriology, immunology, and chemistry activities. BS degree or equivalent plus 1-2 years of experience required. Special project skills and experience in laboratory and bench-scale optimization of bacterial or mammalian cell growth and virus expression, product isolation and purification under GLP conditions desired. Ability to design and carry out experiments with minimal supervision and train junior staff members also needed. Ad Code: 9820184SCI

ASSISTANT/ASSOCIATE SCIENTIST - CELL CULTURE PROCESS DEVELOPMENT

As part of the Animal Health team, you will be responsible for the development and scale-up of processes from flasks through multi-liter laboratory and pilot plant bioreactors, and technology transfer to production. As needed, will develop product analysis and purification protocols. BS degree or equivalent is required, and 1-2 years of experience desired, ideally in applying fermentation technologies to the production of recombinant proteins in bioreactors. Also requires experience in growing bacterial cultures in fermentors, quantitation, downstream processing, and familiarity with GLP and GMP operations and process validation. Demonstrated ability to design and carry out experiments with supervision and excellent written and oral communication skills also needed. Experience in the expression of recombinant proteins using microbial and mammalian cell culture systems with knowledge of separation technology and analytical techniques is desired. Ad Code: 9924060SCI

ASSISTANT SCIENTIST I - BIOLOGY

As part of the Animal Health team, you will be responsible for the development and scale-up of processes from flasks through multi-liter laboratory and pilot plant bioreactors, and technology transfer to production. As needed, will develop product analysis and purification protocols. BS degree or equivalent is required, and 1-2 years of experience desired, ideally in applying fermentation technologies to the production of recombinant proteins in bioreactors. Also requires working knowledge of sterile technique, cell culture and maintenance, bacteria culture, medium optimization, quantitation, process validation, and GLP and GMP operations. Demonstrated ability to work independently and design and carry out experiments with supervision also needed, along with experience in the expression of recombinant proteins using microbial and mammalian cell culture systems with knowledge of separation technology and analytical techniques is desired. Ad Code: 9924181SCI

ASSISTANT SCIENTIST - VIROLOGY

Responsible for developing and validating bioanalytical assays for viral vaccines, you will support process development and clinical testing. This will involve identifying/developing new technologies and drafting bioanalytical components of clinical protocols and filings. A BS plus special project experience is required; MS with 1-2 years of experience desired. Experience with animal health vaccines, and knowledge of mammalian cell culture, medium optimization, ELISA, FA, potency assays, viral scale-up and viral purification are required. Also needed are a working knowledge of sterile technique, assay development, and cell maintenance. Ad Code: 9924220SCI

RESEARCH SCIENTIST - BIOLOGY

You will lead a team of scientists responsible for vaccine development projects. This involves overseeing the development and validation of bio-analytical assays for assessing candidate antigens that confer protective immunity for viral vaccines, in support of process development and clinical testing. A Ph.D. and up to 6 years of demonstrated experience in developing and registering animal health and other vaccines, a track record of successful project completion, excellent team and organizational skills, and the ability to communicate vertically and horizontally are required. Also needed are experience in construction and characterization of recombinant proteins in eukaryotic and prokaryotic expression systems, knowledge of mammalian cell culture, medium optimization, ELISA, FA, potency assays, viral scale-up and purification, and experience training of laboratory employees. Familiarity with viral vector construction, testing of vaccine candidates in appropriate animal model systems, and USDA and GLP guidelines would be a plus. Ad Code: 9928903SCI

RESEARCH SCIENTIST - BIOLOGY

You will head a group of scientists responsible for all aspects of animal health vaccine development, including developing cell culture processes for vaccines, production of eukaryotic (viral) antigens, process scale-up and validation, separations, antigen purification, formulation development, manufacture of clinical supplies, technology transfer to manufacturing, and drafting of registration documents. Your responsibilities include overseeing the group's activities, ensuring that all operations are conducted in strict compliance with USDA and EU regulations under GLP, as well as identifying and developing new technologies, and serving on FDTs and task teams. A Ph.D. and up to 6 years of demonstrated experience in such activities as developing processes for cell culture and viral production in bioreactors, purification of proteins and viral antigens (including recombinant protein expression), bioreactor scale-up, downstream processing and formulation-all under GLP. Must also have experience in carrying vaccine projects through to registration. GMP experience is highly desirable. Ad Code: 9928904SCI

ASSISTANT SCIENTIST I - BIOLOGY

As part of the Animal Health team, you will develop and scale-up processes from flasks through multi-liter laboratory and pilot-plant bioreactors, and as needed, through to production. In addition, specific assignments will require developing product analysis and purification protocols. A BS or equivalent is required; demonstrated ability to perform independent research and 1-2 years of experience desired. Ideally, such experience would include applying fermentation technology to the production of recombinant proteins in bioreactors and the expression of recombinant proteins using microbial and mammalian cell culture systems. Knowledge of separation technology, analytical techniques, and GLP also sought. Ad Code: 9928906SCI

ASSISTANT SCIENTIST I - BIOLOGY

Working with the engineers, bioanalytical virologists, bacteriologists, immunologists, and chemists developing new vaccines, you will help develop and produce clinical supplies for animal testing, conducting all operations in strict compliance with USDA and EU regulations under GLP. Will also support virology, bacteriology, immunology and chemistry activities as needed. Required for this position are BS or equivalent and 1-2 years of experience in laboratory and bench-scale optimization of bacterial or mammalian cell growth and virus expression, and product isolation and purification under GLP conditions. Team skills and the ability to train junior staff are also required. Ad Code: 9928920SCI

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BECKMAN INSTITUTE FELLOWS PROGRAM

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

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

Year 2000 Fellows will be appointed for up to 3 years, beginning as early as June 2000, and no later than December 2000. The stipend is \$44,000/year, plus benefits and a research budget. Selection of Fellows is based on evidence of professional promise, capacity for independent work, outstanding achievement to date, and interdisciplinary research interests corresponding to one or more of the Institute's programs. To be eligible, the Ph.D. must have been held for no more than 4 years (i.e., received no earlier than December 31, 1995).

APPLICATION PROCEDURE: Application packets should be requested from: bielefel@uiuc.edu or Kim Bielefeld at 217-244-5582. Please include your full mailing address.

DEADLINE: A postmark of no later than Friday, January 7, 2000. Announcement of Fellows on or about April 15, 2000.

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

2000



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Please visit our website at:
<http://www.medsch.ucla.edu/som/bri/nsidp>

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UCLA announces newly appointed faculty with research and training opportunities in this area:

Mark Barad: mouse models in psychiatry
Dean Buonomano: cortical plasticity/processing
Chris Colwell: circadian cells/systems
Joanna Jen: channelopathy
Kelsey Martin: synaptic plasticity
Paul Mischel: neurotrophin signaling
Sheila Nirenberg: retinal/cortical circuits
Alcino Silva: learning/memory
Tom Otis: glutamate transporters, cerebellum
Dario Ringach: cortical visual processing
Felix Schweizer: synaptic release mechanisms
Michael Sofroniew: neural injury/repair

For further information contact:
<http://www.neurobio.ucla.edu>
<http://www.medsch.ucla.edu/som/bri/nsidp/>

2000:01

fellowships

AMERICAN ASSOCIATION FOR THE ADVANCEMENT OF SCIENCE

AAAS Science + Technology Policy Fellowships 2000:01 >>>

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Contribute scientific and technical information and external perspectives to federal decisionmaking, while learning how government works. The AAAS fellowship programs provide a unique participatory public policy experience for scientists and engineers, through one-year assignments involving domestic and international science policy issues in the Congress and several executive branch agencies. Stipends typically begin at \$48,000 to \$50,000.

Who >>> Applicants must have a Ph.D. in any physical, biological or social science, any field of engineering, or any relevant interdisciplinary field. Engineers with a master's degree and three years of post-degree experience also may apply. U.S. citizenship is required. Federal employees are not eligible. Approximately 40 fellowships are awarded each year, in eight different programs.

When >>> The fellowship year begins September 1, 2000. Fellows attend a two-week orientation before beginning their assignments, and participate in a yearlong seminar series on topics relevant to science, technology, and public policy. **Application deadline is January 15, 2000.**

Where >>> Fellows are placed in the Congress, the National Science Foundation, the Department of State, the Department of Defense, the Agency for International Development, the Environmental Protection Agency, the Department of Agriculture, the Food and Drug Administration, and other federal offices.

Why >>> AAAS sponsors these programs to provide the opportunity for accomplished and societally aware scientists and engineers to participate in and contribute to the public policymaking process of the federal government. The programs include:

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|--|---|--|
| + Congressional Science and Engineering Fellowship Program | + Science, Engineering, and Diplomacy Fellowship Program | + Technology Policy Science and Engineering Fellowship Program |
| + Roger Revelle Fellowship in Global Stewardship | + Risk Policy Science and Engineering Fellowship Program | + Environmental Science and Engineering Fellowship Program |
| | + Defense Policy Science and Engineering Fellowship Program | + AAAS/NSF Science and Engineering Fellowship Program |

How >>> For application instructions and further information: fellowships.aaas.org. AAAS Science and Engineering Fellowship Programs, 1200 New York Avenue, NW, Washington, DC 20005 • Phone 202/326-6700 • E-mail science_policy@aaas.org
Underrepresented minorities and persons with disabilities are encouraged to apply.

fellowships.aaas.org



RYERSON POLYTECHNIC UNIVERSITY

Canada's leading university for applied, undergraduate education with 37 career-oriented programs. Canada's largest Continuing Education Division, offering courses and certificates for personal and professional development.

ASSISTANT PROFESSOR

Faculty Position

The Department of Applied Chemical & Biological Sciences is seeking an Analytical Chemist to fill a new faculty position at the level of Assistant Professor. As the successful candidate, you will have a strong interest and capacity for undergraduate teaching, and be expected to develop a successful research program and participate in graduate program development.

The Department currently offers a four-year B.Sc. degree program in Applied Chemistry and Biology, a five-year Co-op option, a five-year B.Eng. degree in Chemical Engineering (Co-op), and delivers a variety of chemistry and biology courses to students in other programs. As a result of recent, significant changes owing to faculty renewal, increased research activity and the development of graduate programs, we offer new laboratory facilities, including an analytical instrumentation centre, confocal microscopy and a clean room, to support research at the University. The department will participate in a new Masters Program in Environmental Applied Science and Management, beginning in the year 2000.

Applicants are requested to submit a curriculum vitae, the names of three referees, and a statement of interest describing their teaching philosophy and research interests. All areas of research related to analytical chemistry will be considered.

Please submit your application, by December 16, 1999, to: Dr. Ginette Turcotte, Chair, Department of Applied Chemical and Biological Sciences, Ryerson Polytechnic University, 350 Victoria Street, Toronto, Ontario, M5B 2K3.

Ryerson Polytechnic University has an employment equity program and encourages applications from all qualified individuals, including Aboriginal peoples, persons with disabilities, members of visible minorities and women. Members of designated groups are encouraged to self-identify. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents of Canada.

RYERSON

POSITION IN COGNITIVE NEUROSCIENCE

CENTER FOR NEUROSCIENCE DEPARTMENT OF PSYCHOLOGY UNIVERSITY OF CALIFORNIA, DAVIS

The Center for Neuroscience and the Department of Psychology at the University of California, Davis, invite applications for a Cognitive Neuroscientist at the assistant, associate or full professor level, to begin July 1, 2000. Specialization within the area of cognitive neuroscience is open, however, we are particularly interested in faculty who work on some aspect of human neuropsychology and can utilize newly established functional brain imaging facilities. Applicants are expected to demonstrate leadership in their research specialty, ability to obtain extramural funds, and ability to teach cognitive neuroscience courses at both graduate and undergraduate levels. Candidates must possess a Ph.D. or M.D. degree. The successful applicant will have the opportunity to participate in the recruitment of two assistant professors in cognitive neuroscience. *The University of California, Davis, is an affirmative action/equal opportunity employer with a strong institutional commitment to the development of a climate that supports equality of opportunity and respect for differences.* Applicants should send a letter describing research and teaching interests, a curriculum vitae, copies of representative publications, and at least five letters of recommendation to: **Edward G. Jones, Director, Center for Neuroscience, 1544 Newton Court, University of California, Davis, CA, 95616-8659.** All materials must be received by December 31, 1999, to be assured consideration. The search will continue until this position is filled.

Center for Neuroscience
University of California, Davis

DIRECTOR CANCER CARE CENTER

MetroHealth Medical Center invites applications and nominations for the position of Director, Cancer Care Center. Significant resources, including laboratory space, are committed to the development of a center of excellence that will provide leadership in treatment, prevention, education and research on cancer.

MetroHealth Medical Center is a 728 bed affiliated teaching hospital of Case Western Reserve University (CWRU). The Cancer Care Center includes faculty in all related disciplines, and supports active clinical, teaching and research programs. All faculty hold academic appointments at CWRU.

We are seeking a dynamic leader to plan and direct a major new initiative in cancer medicine and research. The successful candidate will provide leadership and further develop the clinical and research activities of the Cancer Care Center as one of the centers of excellence within the institution. He/she should have a track record of significant accomplishment and experience in cancer and should qualify for a senior faculty appointment at CWRU.

MetroHealth Medical Center is an Equal Opportunity and Affirmative Action employer. Applications from women and minority groups are encouraged.

Nominations and applications, including a curriculum vitae, should be sent to:

**Cancer Care Center Search
c/o Barbara First
Dept. of Medical Affairs (M-137)
2500 MetroHealth Drive
Cleveland, OH 44109-1998**



Northwestern University Department of Physiology

The Department of Physiology at Northwestern University Medical School announces a search for a new tenure-track faculty member. Faculty rank and salary for this full-time appointment are open. Outstanding candidates employing innovative cellular or molecular approaches to understanding brain function that expand the existing departmental strengths are encouraged to apply. Successful candidates holding a Ph.D. or M.D. degree are expected to establish an independently funded research program as well as interact with members of the neuroscience community. In addition, participation in graduate and medical student teaching is expected.

This recruitment is part of a growing commitment to neurosciences at Northwestern University Medical School. Additional information about the Department of Physiology and the Northwestern University Institute for Neurosciences can be found on our Web pages (<http://dept-www.physio.nwu.edu/physiology/physiofr.htm>; <http://nuinfo.nwu.edu/nuin/>).

Please send a curriculum vitae, a description of research interests and three letters of reference by December 1, 1999 to:

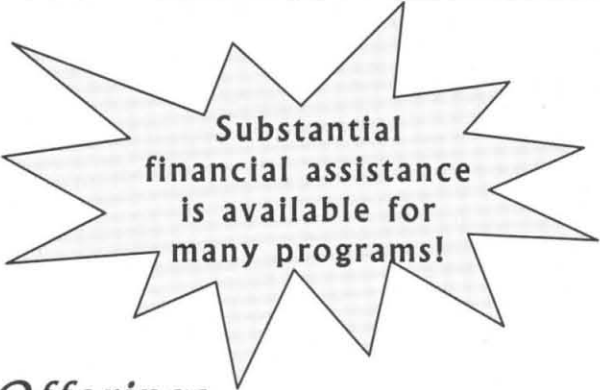
**D. James Surmeier, Ph.D.
Chair, Search Committee
Department of Physiology
Northwestern University Medical School
320 E. Superior St.
Chicago, IL 60611**

We hope to fill this position by September 1, 2000 or earlier.

Northwestern University is an affirmative action, equal opportunity employer. Hiring is contingent upon eligibility to work in the United States. Women and minorities are especially encouraged to apply.

MARINE BIOLOGICAL LABORATORY

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2000 Course Offerings

Modeling of Biological Systems

(March 25 – May 4, 2000)

Director: Robert Silver, Marine Biological Laboratory

Analytical and Quantitative Light Microscopy

(May 4 – May 12, 2000)

Directors: Greenfield Sluder and David Wolf, University of Massachusetts Medical Center, Worcester

Neurobiology & Development of the Leech

(Tentative Dates: May 6 – June 3, 2000)

Directors: Christie Sahley, Purdue University; and Martin Shankland, University of Texas, Austin

Rapid Electrochemical Measurements in Biological Systems

(May 11 – May 16, 2000)

Director: Greg Gerhardt, University of Kentucky

Microinjection Techniques in Cell Biology

(May 16 – May 23, 2000)

Director: Robert Silver, Marine Biological Laboratory

Frontiers in Reproduction: Molecular and Cellular Concepts and Applications

(May 22 – July 2, 2000)
Directors: Joan Hunt, University of Kansas Medical Center; Kelly Mayo, Northwestern University; and Gerald Schatten, Oregon Health Sciences University

Medical Informatics – *sponsored by the National Library of Medicine*

(May 28 – June 3, 2000)

Director: Daniel Masys, University of California, San Diego

Biology of Parasitism: Modern Approaches

(June 8 – August 11, 2000)

Directors: Edward Pearce, Cornell University; and Christian Tschudi, Yale University

Microbial Diversity

(June 11 – July 27, 2000)

Directors: Caroline Harwood, University of Iowa; and Alfred Spormann, Stanford University

Neural Systems & Behavior

(June 11 – August 4, 2000)

Directors: Catherine Carr, University of Maryland; and Richard Levine, University of Arizona

Neurobiology

(June 11 – August 12, 2000)

Directors: Donald Faber, Albert Einstein College of Medicine; and Jeff Lichtman, Washington University School of Medicine

Physiology: The Biochemical & Molecular Basis of Cell Signaling

(June 11 – July 22, 2000)

Directors: David Garbers, University of Texas Southwestern Medical Center, Dallas; and Randall Reed, Johns Hopkins University School of Medicine

Embryology: Concepts and Techniques in Modern Developmental Biology

(June 18 – July 29, 2000)

Directors: Marianne Bronner-Fraser and Scott Fraser, California Institute of Technology

Summer Program in Neuroscience, Ethics, and Survival (SPINES)

(June 10 – July 8, 2000)

Directors: Joe Martinez, University of Texas, San Antonio; and James Townsel, Meharry Medical College

Methods in Computational Neuroscience

(July 30 – August 26, 2000)

Directors: William Bialek and Rob de Ruyter van Steveninck, NEC Research Institute

Workshop on Molecular Evolution

(July 30 – August 11, 2000)

Director: Michael Cummings, Marine Biological Laboratory

Molecular Biology of Aging – *sponsored by the Ellison Medical Foundation*

(August 1 – August 18, 2000)

Directors: Leonard Guarente, Massachusetts Institute of Technology; and Douglas Wallace, Emory University

Molecular Mycology: Current Approaches to Fungal Pathogenesis

(August 6 – August 25, 2000)

Directors: Aaron Mitchell, Columbia University; P.T. Magee, University of Minnesota; and John Edwards, Harbor-UCLA Medical Center

Fundamental Issues in Vision Research – *sponsored by the National Eye Institute*

(August 13 – August 26, 2000)

Director: David Papermaster, University of Connecticut Health Center

Neural Development & Genetics of Zebrafish

(August 13 – August 25, 2000)

Directors: John Dowling, Harvard University; and Nancy Hopkins, Massachusetts Institute of Technology

Medical Informatics – *sponsored by the National Library of Medicine*

(October 1 – October 7, 2000)

Director: James Cimino, Columbia University

Optical Microscopy and Imaging in the Biomedical Sciences

(October 11 – October 19, 2000)

Director: Colin Izzard, State University of New York, Albany

VISIT COURSES.MBL.EDU FOR DETAILS!

For further information, contact:

Carol Hamel, Admissions Coordinator / Marine Biological Laboratory / 7 MBL Street, Woods Hole, MA 02543
email: admissions@mbi.edu / phone: 508-289-7401

DEAN SCHOOL OF PUBLIC HEALTH UCLA

Applications and nominations are invited for the position of Dean of the School of Public Health at UCLA, effective July 1, 2000. The Dean has responsibility for the academic and administrative operation of the School, which currently has 69 faculty positions and 580 students. The School grants MS, MPH, DrPH and PhD degrees, and administers an interdepartmental doctoral program in Environmental Science and Engineering, as well as a number of other joint degrees.

Acting under authority delegated by the Chancellor, the Dean participates in campus-wide planning and is responsible for supervision of the School's budget, allocation of resources, review of faculty, development and administration of academic and research programs, and direction of the School's professional relations. Candidates should have qualifications appropriate to the rank of full professor. Salary will be commensurate with background and experience.

For additional information, please go to: <http://www.apo.ucla.edu/apoweb/dean-ph/>

To be ensured full consideration, nominations and applications should be sent by **November 26, 1999** to:

Public Health Dean Search Committee
c/o Ms. Rene Dennis
Office of the Chancellor
University of California
3109 Murphy Hall
Los Angeles, CA 90095-1407
Facsimile: (310) 206-9643
E-mail: rdennis@conet.ucla.edu

Please view the Position Description as well
UCLA is an equal opportunity employer

YALE UNIVERSITY Assistant Professors Microbiology/Immunology

The Division of Epidemiology of Microbial Diseases in the Department of Epidemiology and Public Health at Yale University School of Medicine is seeking to fill two faculty positions to supplement existing faculty expertise in immunology, bacteriology, parasitology, vector biology, and emerging infections. We seek a **virologist** with fundamental interests in basic aspects of viral diseases in human populations or animal models. We also seek a **mucosal immunologist** who can contribute to understanding of pathogens that infect through the alimentary and/or genitourinary track, to the mechanisms of oral or nasal delivery of vaccines, or developmental aspects of the immune system. The successful candidates, who should have attained a doctoral degree (Ph.D., M.D., and/or D.V.M.), will be expected to participate in teaching at both the MPH and Ph.D. level and to establish externally funded research programs. Closing date for applications is December 1, 1999.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three references to:

EMD Search Committee
c/o Professor Nancy H. Ruddle, Ph.D.
Department of Epidemiology and Public Health
Yale University School of Medicine
P.O. Box 208034
New Haven, CT 06520-8034

Yale University is an Affirmative Action/Equal Opportunity Employer and encourages applications from qualified women and minority candidates.

Research Specialist

Howard Hughes Medical Institute, one of the nation's leading philanthropic organizations, conducts scientific research in leading academic medical centers throughout the United States. We are seeking an experienced **Research Specialist** for one of our laboratories at **UCSD**. The successful applicant will coordinate a state-of-the-art biological mass spectrometry research facility that includes a new quadrupole time-of-flight QSTAR instrument.

Responsibilities also include interfacing with HHMI investigators in research collaborations in novel protein discovery, molecular recognition, and post-translational modification. A Ph.D. is required. Experience in mass spectrometry/electrospray, preferably nanospray, and in protein chemistry is desirable.

HHMI offers an excellent salary and comprehensive benefits package and an opportunity for interaction with UCSD's academic community. Please forward your C.V. and names of 3 references to: **HHMI-UCSD, Attn: Mr. Robert Oakes, CMM-West, H204, 9500 Gilman Dr., La Jolla, CA 92093-0646.**

HHMI is an Equal Opportunity Employer.

HHMI
HOWARD HUGHES MEDICAL INSTITUTE

Faculty Positions

**Department of Biochemistry and Molecular Biology
University of Medicine and Dentistry of New Jersey
New Jersey Medical School**

Applications are invited for TWO TENURE-TRACK POSITIONS at the level of Assistant or Associate Professor. Successful candidates will be expected to pursue an active program of biomedical research within the area of eukaryotic growth control and development, and to participate in graduate and medical teaching.

Located in the University Heights section of Newark, a few minutes from New York City and pleasant New Jersey suburbs, UMDNJ-New Jersey Medical School provides a stimulating and collegial environment with substantial resources.

Send a complete curriculum vitae, brief outline of your research plans, and the names of three references, to:

Dr. Michael B. Mathews, Chairman (S)
Department of Biochemistry and Molecular Biology
UMDNJ-New Jersey Medical School
185 South Orange Ave., MSB/E609
University Heights
Newark, NJ 07103-2714

UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer, M/F/D/V, and a member of the University Health System of New Jersey. Visit our website at: <http://www.umdj.edu/njmsweb/>

UMD
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At Hoffmann-La Roche, our passion for discovery is surpassed only by our pledge to help people live longer, healthier lives. This commitment to new product development has made us one of the world's most progressive pharmaceutical companies.

In the world of Pharmaceuticals, few companies are better positioned to have as great an impact on so many people as Hoffmann-La Roche. Our crystallography scientists are an integral part of the drug discovery process and are committed to impacting drug discovery through the timely supply of structural data to decrease the time and resources required for discovering new drugs. By increasing the number of breakthrough medicines that make it to the marketplace, we make a difference in the lives of many people. You now have an opportunity to become a member of our team of innovative, ambitious, creative professionals.

Macromolecular Crystallography/ Principal Scientist

The primary responsibility in this role is to apply skills in MR, MIR, and MAD to solve crystallographic structures of macromolecular targets for the design of drugs and to clearly communicate results to others of varied disciplines. As a member of a multidisciplinary project team, you will pursue the discovery and optimization of lead molecules in a variety of biological systems in the therapeutic areas of Metabolic Diseases and Oncology. We have good access to synchrotron time and a steady supply of pure proteins, as well as all of the software tools needed to produce several MAD structures per year.

A Ph.D. in biochemistry and at least one year of post-doctoral experience in macromolecular crystallography and X-ray diffraction data processing and analysis are required. Your synchrotron data collection expertise will be of considerable value. Your superior communication skills, belief in the power of teamwork to get the job done and ability to manage time and meet critical deadlines will help you achieve our shared goals.

As one of *NJ Monthly's* "Best Companies to Work for in New Jersey," we offer competitive salaries and an outstanding benefits package that includes on-site childcare and a state-of-the-art fitness center. For consideration, please forward your resume, indicating Job Code (99-000-1659) and salary requirements, to: **Hoffmann-La Roche Inc., R&D Human Resources, 340 Kingsland Street, Nutley, New Jersey 07110; Fax: 973-235-2767; E-mail: nutley.research@roche.com.** We appreciate your interest in Hoffmann-La Roche Inc., but can only respond to qualified candidates. We are an equal opportunity employer, fully committed to diversity in the workplace. For more information visit our web site at www.RocheUSA.com.



NINDS - at the Cutting Edge of Neuroscience

This is an extraordinary time in the field of neuroscience when fundamental discoveries are being made at a breathtaking pace and their application to neurological disorders is proceeding at an accelerating rate. To meet the challenge of new findings and to further enhance the pace of discovery and translation of fundamental discoveries to useful therapies, the National Institute of Neurological Disorders and Stroke (NINDS) has embarked on an ambitious planning and recruitment process. We seek excellent scientists and physicians to serve as program directors in the planning, administration, and evaluation of the research supported by our institute.

The mission of the NINDS is to reduce the burden of neurological disorders by conducting and supporting research on the normal and diseased nervous system. To achieve this mission, we seek critical, resourceful and imaginative scientists, especially those who offer expertise in one or more of the following areas: **Signal Transduction; Molecular Biology of Receptors and Membrane Channels; Neural Circuits; Human Neurogenetics; Immunology; Virology; Glia and Endothelial Cells.**

Successful candidates will join a highly interactive group of scientists and clinicians directing research programs in all areas of modern neuroscience and neurological disorders. Program directors will be at the cutting edge of neuroscience as they plan and implement research programs through active communication with the extramural professional and lay communities, as well as with program directors in other institutes and agencies.

Applicants should have a Ph.D. and/or M.D. in a relevant field of biomedical or behavioral science. For more information, the full announcement can be obtained by fax (Tel. 1-800-728-5627 and request document # 5004) or from the NINDS web site (<http://www.ninds.nih.gov/hrb/Joblist.htm>). U.S. citizenship is required.

Submit a letter of career interests with your curriculum vitae, bibliography, and response to our KSAs (knowledge, skills, and abilities as described in the full announcement) to: Mr. Luis Arvelo, National Institutes of Health, NINDS Human Resources Branch, Building 31, Room 8A23, 31 Center Drive, MSC 2540, Bethesda, MD 20892-2540, or you may fax your application to (301) 480-0383.

Applicants are **strongly** encouraged to obtain information concerning application procedures by contacting Mr. Arvelo at (301) 435-6033. For information on qualification requirements and clarification of duties, contact Dr. Constance W. Atwell at (301) 496-9248 or e-mail her at ca23c@nih.gov

This position may be filled with a career appointment or various temporary appointment mechanisms (minimum of 2 years). The normal salary range for these positions is \$51,138 to \$93,421; actual salary will be commensurate with experience. In addition, physicians may be eligible for a Physician's Comparability Allowance.

Applications must be postmarked by January 28, 2000. **Refer to vacancy announcement # NINDS 99-149.**

The Institute has a strong commitment to the diversity of its workforce and a biomedical research environment that reflects the diversity of the American population (www.ninds.nih.gov/eeo/). Therefore, the Institute is keenly interested in receiving applications from women, minorities, and individuals with disabilities.

The NIH is an Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS IN SOLID-EARTH GEOPHYSICS AT YALE UNIVERSITY

The Department of Geology and Geophysics at Yale University is starting a new multidisciplinary hiring initiative in earth science, which includes a major expansion in solid-earth geophysics. To this end, we intend to fill several ladder faculty positions in solid-earth geophysics, either at the Junior or Senior level, starting as early as January 2000. We invite applicants who will develop internationally recognized research programs in collaboration with present and future Yale geoscientists. The positions will include teaching at both undergraduate and graduate levels. All subfields of solid-earth geophysics will be considered, including, but not limited to: geodesy, geodynamics, geomagnetism, mineral physics, rock and earthquake mechanics, and seismology. Closing date for applications is November 30, 1999.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three or more referees to:

Solid-Earth Geophysics Search Committee
c/o Professor Danny Rye, Chair
Department of Geology and Geophysics
Yale University
P.O. Box 208109
New Haven, CT 06520-8109

We encourage applicants from historically disadvantaged ethnic, racial, and gender categories. Yale University is an Equal Opportunity Employer.

TENURE-TRACK POSITIONS DEPARTMENT OF PHYSIOLOGY UNIVERSITY OF TENNESSEE, MEMPHIS

The University of Tennessee, Memphis Department of Physiology is actively recruiting for two tenure-track faculty positions. Academic rank is dependent upon experience and qualifications. Candidates should have a Ph.D. or M.D. degree, a good track record in publications, and postdoctoral research experience with a background in cellular and/or molecular biology. The abilities to establish an independent research program in the areas of cardiovascular, gastrointestinal, developmental, endocrine, or epithelial physiology and to engage in teaching activities of the department are expected.

Applicants should send a curriculum vitae, copies of three representative publications, and the names of three references to: **Dr. Leonard R. Johnson, Chair, Department of Physiology, University of Tennessee, Memphis, 894 Union Avenue, Memphis, TN 38163.** These positions will remain open until filled. *The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer. Minorities and females are encouraged to apply.*

NEUROSCIENCE FACULTY POSITION

The Biology Department at Morehouse College invites applications for a tenure-track position in neuroscience. Applicants should have a Ph.D. and postdoctoral experience, and be willing to teach biology in a liberal arts environment. Preference will be given to candidates whose research utilizes cellular and molecular techniques to investigate problems in systems and behavioral neuroscience. Neuroscience faculty at Morehouse College participate in the National Science Foundation Center for Behavioral Neuroscience, which includes Emory, Georgia Tech, and Georgia State Universities. Center programs include inter-institutional graduate and undergraduate neuroscience programs and research support for graduate students and postdoctorates. For more information on the college and department, please visit our website: <http://www.morehouse.edu/Biology.bio.htm>. Please send a statement of research and teaching experiences and goals, a graduate transcript, and three letters of recommendation by November 30, 1999, to: **Dr. Melissa Harrington, Department of Biology, Morehouse College, 830 Westview Drive, Atlanta, GA 30314.**

POSITIONS OPEN

FACULTY POSITIONS IN NEUROSCIENCE UNIVERSITY OF VIRGINIA

The Department of Neuroscience at the University of Virginia is recruiting two faculty members: one Senior and one Junior level position.

Candidates in all areas of the neurosciences will be considered. Areas of special interest include: developmental neuroscience, neuroendocrinology, and epilepsy. In addition to establishing a working laboratory, the faculty member will be expected to teach in graduate and medical school courses and mentor graduate students.

The University of Virginia has a well-established interdisciplinary program in the neurosciences that includes over 50 faculty. The university has been rated the number one public university in the nation over the last few years. It is located in the highly desirable piedmont area of central Virginia in the vicinity of the Blue Ridge Mountains.

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

Faculty Search Committee
c/o Kevin Lee, Ph.D.
Department of Neuroscience
University of Virginia Health System
Box 5148, MR4
Charlottesville, VA 22908

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

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

We invite applications for up to two positions at any rank and in any area of biochemistry or molecular biology. Candidates at the **ASSISTANT PROFESSOR** level must have a Ph.D., M.D., or equivalent degree, postdoctoral experience, demonstrated research productivity, and a commitment to excellence in teaching medical and graduate students. Candidates at the **ASSOCIATE** or **FULL PROFESSOR** level must, in addition, have a strong record of extramural research funding. Send letter of application (with curriculum vitae and summary of past and future research) and have three letters of reference forwarded to: **Dr. Patricia Kane, 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.** Review of applications will begin December 1, 1999, and continue until the positions are filled.

An Affirmative Action/Equal Employment Opportunity/ADA Employer.

FACULTY POSITIONS IN EVOLUTIONARY BIOLOGY

The University of Oregon seeks applications for faculty positions in the broad field of evolutionary biology, of which at least one may be at the Senior level. Candidates with research programs involving both empirical and theoretical approaches are encouraged to apply, as are those with a molecular component to their research. Areas of special interest include evolutionary approaches to genetics, development, and ecology. New university resources and a National Science Foundation IGERT award in evolution, development, and genomics provide substantial opportunities for programmatic expansion. Applicants should submit a curriculum vitae, a statement of research and teaching interests, and three letters of recommendation to: **Evolutionary Biology Search Committee, Department of Biology, University of Oregon, Eugene, OR 97403-1210.** To assure full consideration, applications must be received by December 1, 1999.

The University of Oregon is an Equal Opportunity/Affirmative Action Institution committed to cultural diversity and compliance with the Americans with Disabilities Act.

POSITIONS OPEN

Roswell Park Cancer Institute, is seeking a **CHAIR** for the Department of Pharmacology and Therapeutics and Director of the Grace Cancer Drug Center. The candidate must hold a Ph.D. and/or M.D. degree with an established track record of peer-reviewed funding; have administrative experience in leading a large research group with a commitment to inter- and intradepartmental programmatic coordination. The major responsibility of the position is to promote the discovery and development of novel therapies for the treatment of cancer. The ideal candidate will have the exceptional vision necessary to continue development of a first-rate Department of Pharmacology and Therapeutics.

Roswell Park Cancer Institute is a free-standing, NCI Comprehensive Cancer Center that completed a \$250-million major modernization construction project in June of 1998. The Institute has six basic research departments, 11 clinical departments, and a vibrant Graduate Studies Division within the State University of New York at Buffalo providing a highly interactive environment for collaborative research.

Interested individuals should submit their curriculum vitae (on disk if possible), names of three references, and a one- or two-page summary of current research interest to:

Soldano Ferrone, M.D., Ph.D.
Chair, Search Committee for the Chair of
Pharmacology and Therapeutics
Department of Immunology
Roswell Park Cancer Institute
Elm and Carlton Street
Buffalo, NY 14263

RPCI is an Equal Opportunity Employer.

FACULTY POSITION DEPARTMENT OF MOLECULAR BIOLOGY PRINCETON UNIVERSITY

The Department of Molecular Biology at Princeton University invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. We are seeking an outstanding young Investigator in any area of molecular biology, but will give special consideration to applicants investigating questions in cell biology, biochemistry, and vertebrate developmental biology. The department has extensive facilities that include confocal and electron microscopy, FACS, oligonucleotide/peptide synthesis, and a transgenic mouse facility. Ph.D.'s or M.D.'s with postdoctoral research experience should send a curriculum vitae, short summary of research interests, and three letters of reference to: **Search Committee, c/o Gail Huber, Department of Molecular Biology, Princeton University, Princeton, NJ 08544-1014.** For full consideration applications should be received by January 1, 2000. For additional information about the department visit our website: www.molbio.princeton.edu.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN NEUROBIOLOGY

The Department of Neurobiology at Duke University Medical Center invites applications from outstanding individuals with strong training and interest in using modern vertebrate genetic models to investigate neurological disease, neural development, or integrative neuroscience. Applications at both **ASSISTANT PROFESSOR** and more **SENIOR** levels will be considered. The successful applicant is expected to establish a vigorous research program within a highly interactive, diverse department with strengths in cognitive and systems neuroscience, synaptic physiology, and molecular neurobiology. Applicants should send a curriculum vitae, a description of current and projected research, and the names of three references to: **Lawrence C. Katz, Chair, Neurobiology Search Committee, Department of Neurobiology, Box 3209, Duke University Medical Center, Durham, NC 27710.**

Duke University is an Equal Opportunity/Affirmative Action Employer.

CNS Research Opportunities

At Schering-Plough Research Institute, our scientists are discovering innovative therapeutic agents that challenge humankind's most debilitating diseases. And we're doing it at our **Kenilworth, NJ** state-of-the-art research campus where you can enjoy the benefits and prestige of working for a global leader. Join us now as we shape the future of pharmaceutical innovation.

Ph.D. in vivo Pharmacologists

Requires Ph.D. in Pharmacology or related discipline with a minimum of 4 years' post Ph.D. experience to include work with *in vivo* models in neuropsychopharmacology and neurochemistry. Experience with behavioral assays is highly desirable. **Job Code: XHXDD91XX**

Ph.D. Postdoctoral Scientists

Requires Ph.D. in Molecular Biology, Neurobiology or related discipline with strong working knowledge of current molecular biology techniques, including cDNA cloning, PCR and automated DNA sequencing, and characterization of receptors. Experience with *in situ* hybridization, receptor autoradiography or immunocytochemistry in tissue, is highly desirable. **Job Code: XHXTM99XX**

BS/MS Research Associates

Requires BS/MS in Pharmacology, Biochemistry, Molecular Biology or related discipline with a minimum of 2 years' relevant laboratory experience. Experience with *in vivo* pharmacology, behavioral assays,

receptor binding assays, cDNA cloning, DNA sequencing, and gene expression is highly desirable for most positions, though required for others. **Job Code: XHXDD910X**

We offer an excellent compensation package that includes a competitive salary, a cash incentive bonus program, comprehensive benefits, profit sharing and 401(k). Competitive benefits include: group insurance and retirement programs, flexible work arrangements, education assistance, and health and wellness programs.

For prompt, confidential consideration, we invite you to forward your resume which **MUST** include the Job Code for your position of interest to: E-mail: sprisc@isearch.com or send to: **Human Resources, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-1300. For additional information, or to apply online, visit our website at: www.sp-research.com** We are an equal opportunity employer. *We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.*



**Schering-Plough
Research Institute**

Using Science for Human Advantage

CELL AND MOLECULAR BIOLOGY

Tenure Track Faculty Position Bowdoin College

The Biology Department of Bowdoin College seeks to fill a tenure track position in Cell and Molecular Biology at the **Assistant or Associate Professor** level beginning Fall 2000. The position carries a joint appointment in Biology and Biochemistry. The teaching load is two courses per semester (with adjustments if labs are involved). Teaching responsibilities include one semester of a two-semester Biochemistry course, participation in a Biochemistry lab course, a course in Cell and Molecular Biology and an upper level course in the candidate's area of specialization. The successful applicant is expected to maintain an active research program which includes undergraduates.

Review of applications will begin November 15, 1999. Please send a CV, a letter of intent which includes a description of your research interests and teaching philosophy and the names, email addresses and phone numbers of three references to: **Carey Phillips, Chair, Biology Department, 6500 College Station, Bowdoin College, Brunswick, ME 04011-8465.** For further information about the department and the college, see our website: www.bowdoin.edu

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.

DEAN OF THE GRADUATE SCHOOL Emory University - Atlanta, Georgia

Emory University seeks a dynamic academic leader to serve as Dean of the Graduate School of Arts and Sciences. The Dean is responsible for overseeing 28 graduate programs with 642 faculty members and 1400 enrolled students and for developing new programs across the Arts and Sciences and the Professional Schools. The Dean represents the voice of the faculty to the University administration and to the Board of Trustees. The Dean reports directly to the Provost and serves on the Council of Deans. The Dean manages a budget of approximately \$28 million dollars.

Emory University, a private university established in 1836, has a student body of more than 11,000 and 2,400 full-time faculty members. The University encompasses nine divisions, a number of centers for advanced study, and a host of prestigious affiliated institutes. Emory is actively committed to enhancing its academic stature and is in an excellent position to achieve ambitious goals.

The ideal candidate will be an accomplished scholar with a record of demonstrated achievement in creating distinguished and distinctive academic programs in collaboration with colleagues both within disciplines and across disciplinary lines. Experience in budgetary management is desirable.

Nominations, candidacies, and requests for further information should be directed to the Chairperson of the Search Committee:

Dr. Rebecca S. Chopp
Provost and Executive Vice President for Academic Affairs, Emory University
c/o Paula Carabelli and Dennis M. Barden
Educational Management Network/a division of Witt/Kieffer
1920 Main Street, Suite 310, Irvine, CA 92614

Applications should include a letter of interest; a current curriculum vitae; and the names, positions and phone numbers of five references who will be contacted only with candidate's approval. Questions regarding this search may be directed to the consultants supporting Emory, Paula Carabelli at (949) 851-5070 or Dennis M. Barden at (630) 990-1370, or directly to Provost Rebecca Chopp, Suite 404, Administration Building, Emory University, Atlanta, GA 30320. Screening will begin immediately and will continue until an appointment is made. All communications will be treated confidentially. EEO/AA Employer.

POSITIONS OPEN

FACULTY POSITION UNIVERSITY OF WISCONSIN-MADISON INFECTIOUS DISEASE

The Department of Animal Health and Biomedical Sciences and the USGS National Wildlife Health Center invite applications for a full-time tenure-track **ASSISTANT PROFESSOR** position in infectious diseases of wild birds or mammals, including zoonoses. Applicants should have a Ph.D. or equivalent with established research expertise. The successful applicant will be expected to develop and sustain a strong extramurally funded research program. Teaching responsibilities consist of coordinating a graduate level wildlife disease course. A generous start-up package will be provided. Excellent research facilities are available. Applicants should submit a letter describing research goals, key publications, a curriculum vitae, and contact information for three references to: **Judd Aiken, Department of Animal Health and Biomedical Sciences, University of Wisconsin, School of Veterinary Medicine, 1656 Linden Drive, Madison, WI 53706-1581.**

To assure full consideration, apply by January 1, 2000.

For additional information on the Department of Animal Health and Biomedical Sciences and the National Wildlife Health Center, see websites: <http://www.ahabs.wisc.edu> and <http://www.umesc.usgs.gov/nwhchome.html>.

Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN MICROBIOLOGY UNIVERSITY OF WASHINGTON

Applications are invited for a full-time faculty position as **LECTURER** in the Department of Microbiology. A B.S. degree in microbiology or biology is required, but preference will be given to applicants with a M.S. degree or higher and teaching experience. The potential to be an outstanding teacher in both the laboratory and the classroom will be the most important criterion for evaluating the applicants. The successful candidate will be responsible for overseeing the teaching of laboratory courses and for lecturing in introductory microbiology courses. Additional responsibilities include student advising, maintaining a culture collection, and providing demonstrations for medical student laboratory courses. For additional information about the department consult the website: <http://depts.washington.edu/micro/>. Applicants should send their curriculum vitae and the names of at least three references by January 1, 2000, to: **Lecturer Search Committee, Department of Microbiology, Box 357242, University of Washington, Seattle, WA 98195-7242.** Apply by e-mail: microlec@u.washington.edu.

The University of Washington is building a culturally diverse faculty and strongly encourages applications from female and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

The Department of Obstetrics and Gynecology invites applications for a faculty appointment at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. Applicants should hold a Ph.D. or equivalent degree with a minimum of two years of relevant postdoctoral research experience. The successful candidate is expected to participate in teaching and develop an independent, extramurally funded research program in the general area of cancer and women's health, with emphasis on molecular mechanisms. Submit curriculum vitae, description of research interests, summary of active and pending research grants, and names of three professional references to: **Dr. Kimberly Leslie, Chief, Basic Reproductive Science, Department of Obstetrics and Gynecology, Campus Box B-198, UCHSC, 4200 East Ninth Avenue, Denver, CO 80262.** The University of Colorado is an Equal Employment Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIR DEPARTMENT OF MICROBIOLOGY AND MOLECULAR CELL SCIENCES

The University of Memphis invites applications and nominations for the position of Chair of the Department of Microbiology and Molecular Cell Sciences. Minimum qualifications include a Ph.D. degree and academic qualifications commensurate with the academic rank of Professor of microbiology and molecular cell sciences. The candidate's area of research specialization may be in biochemistry, cell biology, developmental biology, microbiology, or molecular biology. We seek an individual with a distinguished record of performance in research, grantsmanship, and teaching with potential or demonstrated abilities to lead and manage a newly formed academic department. The candidate will be expected to participate in undergraduate and graduate education and must be committed to excellence in teaching. The applicant should also possess interpersonal and leadership skills in mentoring faculty, directing students, and performing administrative duties. The department offers a B.S. degree in microbiology and molecular cell sciences, and M.S. and Ph.D. degrees in biology with concentrations in biochemistry, microbiology, and molecular cell sciences. The department's website: <http://www.people.memphis.edu/~microcell/mmcs.html>. Review of applications will begin December 1, 1999, and continue until the position is filled. Applicants should submit their curriculum vitae, a statement of addressing administrative philosophy and research interests, and at least three letters of recommendation to: **Search Committee Chair, Department of Microbiology and Molecular Cell Sciences, Campus Box 526041, University of Memphis, Memphis, TN 38152-6041.** *Equal Opportunity/Affirmative Action Employer.*

CORNELL UNIVERSITY DEPARTMENT OF COMPUTER SCIENCE

Tenure-track position in computational biology, reference: CB#2. We are seeking applicants at all ranks for an interdisciplinary, tenure-track position in computational biology. The applicant should have a very strong background in computer science and should also have a strong background and research interest in computational aspects of biology. Research may include such topics as development of genomic databases, bioinformatics, and structural biology. We are looking for candidates with outstanding research accomplishments and who are committed to excellence in teaching computer science. Further information about the department is available on the website: <http://www.cs.cornell.edu/>. Applicants should submit a curriculum vitae and the names of at least three references to: **Chair, Faculty Recruiting Committee, Department of Computer Science, 4130 Upson Hall, Cornell University, Ithaca, NY 14853-7501.** Please include reference number with application. *Cornell University is an Equal Opportunity Employer and welcomes applications from women and ethnic minorities.*

FACULTY POSITION PHYSIOLOGIST/ANATOMIST

Assumption College invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** rank, starting August 2000. Teaching duties include upper-level courses in comparative physiology, vertebrate anatomy, and field of specialization. The candidate would share departmental responsibilities in introductory courses and expand the department's undergraduate research program. Ph.D. and a commitment to undergraduate teaching and research required. Candidates must understand the Catholic liberal arts mission of the college. Please send application, including statement of teaching philosophy and research interests, résumé, and three letters of reference to: **Professor Thomas Slavkovsky, Department of Natural Science, Assumption College, 500 Salisbury Street, P.O. Box 15005, Worcester, MA 01615-0005.** Deadline is December 15, 1999. *Equal Opportunity Employer.*

POSITIONS OPEN

VISITING FACULTY POSITIONS IN EARTH SCIENCES AT YALE UNIVERSITY

The Department of Geology and Geophysics at Yale University announces the opening of several visiting faculty positions, starting as early as September 1, 1999. Applicants from all areas of earth science and all career levels are welcome to apply. The visiting positions are part of a major hiring initiative in earth sciences at Yale focused on rebuilding the size and strength of the department. We are looking for individuals who would enjoy contributing and interacting in a broad multidisciplinary department that includes active programs in atmospheres, oceans, and climate; geochemistry; petrology; solid-earth geophysics; paleontology and evolutionary theory; and tectonics. The successful applicant would be expected to conduct an active research program, to interact with students and faculty, and to teach one course or seminar per semester with the topic to be negotiated. The duration and scope of the visit are negotiable as well. Applications will be considered as they arrive.

Applicants should send a curriculum vitae, a statement of objectives for the visit, and the names and addresses of three referees to:

**Visiting Faculty Search Committee
c/o Professor Danny Rye, Chair
Department of Geology and Geophysics
Yale University
P.O. Box 208109
New Haven, CT 06520-8109**

We encourage applicants from historically disadvantaged ethnic, racial, and gender categories. Yale University is an Equal Opportunity Employer.

FACULTY POSITION IN PALEONTOLOGY AT YALE UNIVERSITY

The Department of Geology and Geophysics at Yale University is starting a new multidisciplinary hiring initiative in earth science, which includes the strengthening of its program in paleontology. To this end, we intend to fill a ladder faculty position in paleontology, at either the Junior or the Senior level, starting September 2000. We invite applicants who will develop an internationally recognized research program in collaboration with present and future Yale geoscientists and bioscientists. The position will include teaching at both the graduate and undergraduate levels. All subfields of paleontology will be considered including, but not limited to, biogeochemistry, biostratigraphy, event stratigraphy, evolutionary processes, functional morphology, macroevolution, origin of major groups/body plans, marine paleoecology, mass extinctions, paleobiogeography, paleoenvironmental analysis, systematics, or taphonomy. Closing date for applications is January 15, 2000.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three or more referees to:

**Paleontology Search Committee
c/o Professor Danny Rye, Chair
Department of Geology and Geophysics
Yale University
P.O. Box 208109
New Haven, CT 06520-8109**

We encourage applicants from historically disadvantaged ethnic, racial, and gender categories. Yale University is an Equal Opportunity Employer.

Cleveland Chiropractic College, Los Angeles invites applications for a **FULL-TIME TEACHING POSITION** in human gross anatomy effective January 2000. A Ph.D. in anatomy is required along with teaching experience at the college level. Please send a letter of application, a copy of unofficial transcripts, a statement of teaching philosophy, and three letters of recommendation to:

**Chair, Basic Science Department
Cleveland Chiropractic College
590 North Vermont Avenue
Los Angeles, CA 90004
E-mail: a_mork@juno.com**



TENURE-TRACK FACULTY POSITION VIROLOGIST

West Virginia University
Robert C. Byrd Health Sciences Center

The Department of Microbiology and Immunology invites applications for a tenure-track faculty position in virology (rank will be commensurate with experience). We seek a scientist pursuing innovative molecular approaches to problems in medical virology, including, but not limited to, neurovirulence, viral oncogenesis, or viral pathogenesis. The successful candidate is expected to establish a vigorous, independent research program and participate in the teaching mission of the department. A generous start-up package, competitive salary and recently renovated laboratory space will be provided. Applicants should possess a Ph.D. and/or M.D., a minimum of two years of postdoctoral training, and provide evidence of significant research accomplishments and scholarly promise. Applicants should furnish a curriculum vitae, a brief summary of research plans and teaching interests, along with three letters of recommendation by January 15, 2000. Materials should be addressed to **Daniel Flynn, Ph.D., Search Committee Chair, Department of Microbiology and Immunology, West Virginia University, 2095 Health Sciences North, P.O. Box 9177, Morgantown, WV 26506-9177.**

*West Virginia University is an Equal
Opportunity/Affirmative Action Employer*

COLUMBIA UNIVERSITY College of Physicians and Surgeons Assistant Professor Cognitive Neuroscience

Columbia University invites applications for two tenure-track faculty positions in the newly formed Keck Center in Behavioral Plasticity and the Center for Neurobiology and Behavior, at Columbia University College of Physicians and Surgeons. Successful candidates will be expected to develop a vigorous, extramurally funded independent research program in cognitive neuroscience, using approaches such as optical imaging, single unit recording, computational methods, behavioral psychology, and related techniques. They will have the opportunity to interact with ongoing research programs that include analysis of mechanisms of selective attention, visual perception, motor control, and learning and memory. A generous start-up package and newly constructed laboratory space will be made available. Applicants must possess a Ph.D. or M.D. degree and have at least two years of postdoctoral training.

Submit curriculum vitae, names and addresses of three references, and a summary of research objectives to: Search Committee, Center for Neurobiology and Behavior, New York State Psychiatric Institute, 722 West 168th Street, New York, NY 10032. *An affirmative action equal opportunity employer.*



UNIVERSITY OF
CALGARY

ACADEMIC POSITIONS

On the edge and leading the way. The University of Calgary is a contemporary university that builds a spirit of discovery and inquiry while delivering a dynamic life and quality learning experience.

THE UNIVERSITY OF CALGARY CARDIOVASCULAR AND SMOOTH MUSCLE RESEARCH GROUPS

invite applications from outstanding investigators for three full-time academic positions at the Assistant Professor level or higher to develop vigorous independent research programs within a multidisciplinary research environment. While duties include some teaching and graduate student supervision, 75% of time will be protected for research.

The Cardiovascular and Smooth Muscle Research Groups are located in the rapidly growing Faculty of Medicine of the University of Calgary, which is in the process of building a major new research facility. The research groups will form part of the developing Alberta Cardiovascular Research Institute with exciting opportunities for collaborative research between the three Universities of the Province of Alberta.

Calgary is a vibrant, multicultural city of 800,000 near the Rocky Mountains, Banff National Park and Lake Louise.

SMOOTH MUSCLE CELL DIFFERENTIATION AND/OR PROLIFERATION

The Smooth Muscle Research Group invites applications from scientists with research interests in smooth muscle cell differentiation and/or proliferation. This position offers an excellent opportunity to develop an independent research program focused on smooth muscle structure and function within a multidisciplinary environment.

INTEGRATIVE PHYSIOLOGY

The Cardiovascular Research Group invites applications from an integrative physiologist to join a multidisciplinary group of investigators studying basic and applied aspects of cardiovascular disease. This position offers an excellent opportunity to develop an independent research program of the fundamental mechanisms of cardiovascular physiology, including collaborative research with clinical scientists. Applicants well qualified in the fields of cardiac or macro/microcirculatory physiology are encouraged to apply.

CARDIO VASCULAR MOLECULAR BIOLOGY

The Cardiovascular Research Group invites applications from a molecular biologist interested in growth and development of the heart and vessels. This position offers an excellent opportunity to develop an independent research program focused on structure and function of the heart and coronary vessels within a multidisciplinary environment.

THE SMOOTH MUSCLE RESEARCH GROUP

The Smooth Muscle Research Group consists of 14 principal investigators and their research teams with interests in ion channel structure, function and regulation, endothelium-smooth muscle interactions, signal transduction pathways regulating contractility, and regulation of calcium flux. For more information, see <http://www.ucalgary.ca/smrgr/>. The Group wishes to broaden its scope to include the area of angiogenesis.

THE CARDIOVASCULAR RESEARCH GROUP

The Cardiovascular Research Group consists of 28 principal investigators and their research teams with interests in diagnosis, treatment and prevention of arrhythmias, syncope, coronary artery disease and congestive heart failure. Research spans bench to bedside in: biophysics, pharmacology and molecular biology of cardiac cells and their role in arrhythmias and syncope; integrative physiology of the heart and cardiovascular system and mechanics, and excitation-contraction coupling of cardiac muscle in cardiac hypertrophy and congestive heart failure. For further information see: <http://pc15.cvr.ucalgary.ca/>. The Cardiovascular Research Group wishes to extend its research into molecular biology of cardiac and vascular cell growth.

Qualifications include a PhD and/or MD, at least two years of postdoctoral experience and a proven record of excellence in research. The selected candidate must compete successfully for salary support and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada; we anticipate generous start-up funds will be available to a qualified candidate. Eligibility for licensure in the Province of Alberta is also required if the selected individual will be providing patient care.

By November 30, 1999, please submit a curriculum vitae and a statement of research interests and arrange to have 3 letters of reference sent directly, to:

Dr Chris R. Triggie
Associate Dean (Research)
Faculty of Medicine
University of Calgary
3330 Hospital Drive NW
Calgary, Alberta, Canada T2N 1N4

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates and encourages diversity.

www.ucalgary.ca

POSITIONS OPEN

FACULTY POSITION BIOLOGY ROCKY MOUNTAIN COLLEGE

Tenure-track position for an Ecologist. Seeking a Biologist with a Ph.D. (by fall 2000) with teaching experience and expertise in ecology. Other teaching responsibilities include: general biology, genetics, evolution, conservation biology, and a course in candidate's specialty area. GIS skills valuable. Interest in interdisciplinary teaching is preferred.

Rocky Mountain College is a private, liberal arts college with a diverse selection of professional and academic programs. The college is located in Billings, Montana—a community of approximately 100,000 residents. It is the oldest institution of higher education in Montana, predating statehood by 11 years, and today stands as one of only two private liberal arts colleges in a two-state region. It is distinctive in its small student body (800), a student-to-faculty ratio of approximately 14:1, and the ability to empower students with individual support.

Submit a letter of interest, curriculum vitae, transcript from graduate institution, and three letters of recommendation to: **Bob Robertson, Director of Personnel, Rocky Mountain College, 1511 Poly Drive, Billings, MT 59102.** For more information about Rocky Mountain College, refer to our website: www.rocky.edu. We will begin reviewing applications November 15, 1999.

Rocky Mountain College is an Equal Opportunity/Affirmative Action Institution.

FACULTY POSITIONS DEPARTMENT OF NEUROBIOLOGY University of Pittsburgh School of Medicine

The Department of Neurobiology, University of Pittsburgh School of Medicine, is inviting applications for several **TENURE-TRACK** positions at all ranks. These positions are designed to complement current departmental strengths in cellular, developmental, and systems neurobiology. In this search, preference will be given to applicants investigating mechanisms of neuronal communication, especially involving the formation, function and plasticity of synapses, utilizing functional, biophysical, genetic, molecular, and/or structural biological approaches. Candidates must have a Ph.D. or M.D. with at least two years of postdoctoral experience, and will be expected to conduct an outstanding, independent research program. Competitive salary support and substantial start-up funds will be made available. Applicants should submit by December 31, 1999, a curriculum vitae, a description of present and future research goals, representative recent publications, and names and addresses of three references to: **Dr. Eric Frank, Chair, Faculty Search Committee, Department of Neurobiology, University of Pittsburgh School of Medicine, E1446 Biomedical Science Tower, Pittsburgh, PA 15261.**

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

ASSISTANT PROFESSOR of pathology. The Department of Pathology at the University of Alabama at Birmingham invites applications for a full-time, tenure-track faculty position. The successful candidate will have expertise in the general field of vascular biology and particular interests in the area of vascular smooth muscle cell gene expression. Expertise in biochemistry and molecular biology is essential, and experience in whole-animal studies of arterial injury is considered important. Applicants must have an M.D., Ph.D., or M.D.-Ph.D. and postdoctoral experience with excellent publications in mainstream journals. Applicants should submit a current curriculum vitae and a statement of research interests to: **Thomas Lincoln, Ph.D., Director, Division of Molecular and Cellular Pathology, Department of Pathology, Volker Hall, 1670 University Boulevard, Birmingham, AL 35294-0019.** The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer and welcomes applications from qualified women and minorities.

POSITIONS OPEN

FACULTY POSITIONS IN VIROLOGY WASHINGTON UNIVERSITY MEDICAL SCHOOL IN ST. LOUIS

The Department of Molecular Microbiology at the Washington University School of Medicine solicits applications for two **TENURE-TRACK APPOINTMENTS** at either the junior or senior professorial levels, beginning in the fall of 2000. We are especially interested in those investigators focusing on viral pathogenesis, broadly defined. Our program has a strong emphasis on microbial pathogenesis in prokaryotic, viral, and eukaryotic systems (information can be found at website: www.microbiology.wustl.edu). We are seeking interactive individuals with a commitment to teaching and establishing a vigorous and outstanding independent research program. There are numerous common research facilities, a tremendous potential for collaborative interactions, and in the year 2000 we will occupy expanded space in a new research building. Applicants should send a detailed curriculum vitae, a few selected reprints, a brief description of current and planned research interests, and arrange to have three letters of reference sent by December 15, 1999, to: **Dr. Stephen M. Beverley, Chairman of Molecular Microbiology, Attn: Faculty Search Committee, Washington University School of Medicine, Campus Box 8230, 660 South Euclid Avenue, St. Louis, MO 63110.**

Washington University Medical School is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

FACULTY POSITIONS IN NEUROSCIENCE

The Department of Neuroscience and Anatomy of The Pennsylvania State University College of Medicine invites applications for two tenure-track positions at **ASSISTANT PROFESSOR** level. Candidates must have a doctoral degree, postdoctoral training, and a research program in neuroscience with an emphasis on mammalian systems in areas of molecular and cellular neuroscience, developmental neuroscience, systems neuroscience, or cellular neurophysiology. More senior individuals applying for **ASSOCIATE PROFESSOR** or **FULL PROFESSOR** positions may also be considered. Appointed faculty members are expected to develop a strong, externally funded research program and participate in teaching of medical and graduate students. Applicants should send a curriculum vitae, statement of research interests, and names of three referees to: **Search Committee, Department of Neuroscience and Anatomy, The Pennsylvania State University College of Medicine, Mail Code H109, 500 University Drive, Hershey, PA 17033.** Applications will be accepted through December 1, 1999, or until positions are filled. Affirmative Action/Equal Opportunity Employer.

Tenure-track **ASSISTANT PROFESSOR** to contribute to the new Biochemistry and Molecular Biology (BMB) B.S. program administered by the Departments of Biological Sciences and Chemistry. Preferred starting date: August 16, 2000.

The BMB program will prepare students for the revolution in biochemistry, molecular and cellular biology, and biotechnology (see website: www.bmb.ilstu.edu). The successful applicant will be expected to develop an independent, high quality, and extramurally funded research program, and contribute to training of Ph.D. and M.S. students. Teaching responsibilities will include undergraduate and graduate courses in biochemistry and/or molecular biology. Ph.D. required, postdoctoral experience preferred. To assure full consideration, applications should consist of a curriculum vitae, copies of three publications, three recommendation letters, and brief statements of research and teaching goals by December 7, 1999. Apply to: **Biochemistry and Molecular Biology Search Committee Chair, Campus Box 4100, Illinois State University, Normal, IL 61790-4100.**

Illinois State is an Equal Opportunity/Affirmative Action University encouraging diversity.

POSITIONS OPEN

THE NEUROSCIENCES INSTITUTE SAN DIEGO

The Neurosciences Institute is an independent, not-for-profit organization at the forefront of research on the brain. Research at the institute spans levels from the molecular to the behavioral and from the computational to the cognitive. The institute has a strong tradition in theoretical neurobiology and has established new experimental facilities, including a 148 channel MEG system and a 128 channel EEG system. The institute is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists.

JUNIOR FELLOW, neural basis of consciousness. The institute has a strong tradition in the theoretical and experimental study of consciousness (see: *Science* 282:1846; *PNAS* 95:3198; *J. Neurosci.* 19:5435). Applications are invited for positions as Junior Fellow to collaborate on experimental and theoretical studies of the neural correlates of conscious perception. Applicants should be at the Postdoctoral level with backgrounds in neuroimaging (including MEG, EEG, and fMRI), statistical analysis, information theory, and theoretical neurobiology.

Fellows receive stipends and research support commensurate with qualifications and experience. Positions are now available. Applications for all positions listed should contain a short statement of research interests, a curriculum vitae, and the names of three references, and should be sent to: **Giulio Tononi, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121. E-mail: tononi@nsi.edu; website: <http://www.nsi.edu>.**

TWO SENIOR TENURE-TRACK POSITIONS IN ENVIRONMENTAL AGENTS AND SIGNAL TRANSDUCTION

Two Senior positions are available in the Department of Environmental Health Sciences in the School of Public Health, University of Alabama at Birmingham. Applicants should be experts in signal transduction with a clear vision as to how they could approach environmental health and toxicology from that perspective. The new Department Chair, **Dr. Henry Jay Forman**, is reorganizing the department. One appointment will be made at the rank of **PROFESSOR**. The other position can be at either the **ASSISTANT** or **ASSOCIATE PROFESSOR** rank dependent upon qualifications. Applicants should indicate for which position they are applying. Anticipated appointment date is September 1, 2000. By January 5, 2000, a curriculum vitae, names and phone numbers of three references, and a two-page summary of research plans should be sent to:

Ms. Ruth Elder
Department of Environmental Health Sciences
School of Public Health
University of Alabama at Birmingham
1530 3rd Avenue South
RPHB 317
Birmingham, AL 35294-0022
E-mail: elderr@uab.edu

The University of Alabama at Birmingham is an Equal Employment Opportunity Employer. Women, minorities, and persons with disability are encouraged to apply.

Immediate opening for tenure-track **ASSISTANT PROFESSOR** to study the biology and genetics of HIV drug resistance as part of an expanding HIV/AIDS research program. Candidates should have a Ph.D., M.D., or equivalent, and sufficient experience to establish an independent, funded research program. Competitive salary and start-up packages are available. Send curriculum vitae, summary of research interests, and names of three references to: **John W. Mellors, M.D., Chief, Infectious Diseases Division, University of Pittsburgh, Graduate School of Public Health, 603 Parran Hall, 130 DeSoto Street, Pittsburgh, PA 15261. Telephone: 412-624-8512; FAX: 412-383-7982; e-mail: fern+@pitt.edu.** The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITIONS
MOLECULAR NEUROSCIENCE
THE UNIVERSITY OF IOWA**

The Department of Physiology and Biophysics at The University of Iowa invites applications for one or more tenure-track faculty positions in the area of molecular neuroscience. Applicants with interests in the areas of neurodevelopment, neurogenetics, and neuroendocrinology that complement current departmental strengths in signal transduction, gene regulation, and membrane trafficking are encouraged to apply. Although applications will be considered for positions at all levels, preference will be given to those for Assistant Professor. Applicants should have a Ph.D. and/or M.D. degree, at least two years of relevant postdoctoral training, and a strong record of research accomplishment supported by publication. Excellent salary and start-up support is provided. The Department has broad strengths in molecular, cellular and integrative physiology and participates in many productive interdisciplinary research activities throughout the University. For more information, visit our website at www.physiology.uiowa.edu.

To apply, please send a curriculum vitae, a statement of research plans, representative publications, and names of three or more references to: Neuroscience Search Committee, Department of Physiology and Biophysics, The University of Iowa College of Medicine, Iowa City, IA 52242.

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



The Department of Neuroscience at the University of Pennsylvania School of Medicine is under new management, and will be expanding in the next few years. We invite applications for tenure-track or tenured faculty using cellular or molecular approaches to the study of any aspect of neurobiology. Up to two appointments at the assistant, associate or full professor rank, will be made for the 2000/2001 academic year. Highly competitive start-up packages are available in a superb academic environment. Candidates with an outstanding record of scholarly achievement should send a CV and statement of research interests, and arrange to have three letters of recommendation sent directly to: **Irwin B. Levitan, Professor and Chair, Department of Neuroscience, University of Pennsylvania School of Medicine, 215 Stemmler Hall, Philadelphia, PA 19104-6074.** Applications will be accepted until the positions are filled, but early application is encouraged because evaluation of applications will begin as soon as they are complete.

The University of Pennsylvania is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Research

A healthy vision.

SmithKline Beecham, a world class leader in Research and Development, continues to pioneer innovative pharmaceutical and healthcare products and services. We have the following opportunities available in our suburban Philadelphia, PA facility.

Investigator (MRI)

Working in our Nuclear Magnetic Resonance group, in the Department of Physical and Structural Chemistry, you will invent, develop and/or implement magnetic resonance imaging (MRI) and spectroscopic experiments, for pharmacological, biological, biochemical and toxicological applications. You will also execute program-related research projects in MR imaging and spectroscopy, particularly, though not exclusively in diagnosing disease processes and its response to drug therapy in animal models *in vivo*.

We require a PhD in Chemistry, Physics, Biochemistry or Biomedical Engineering with a strong experimental background in current magnetic resonance imaging and spectroscopic techniques. Preference will be given to candidates with relevant postdoctoral experience in the use of MR imaging and spectroscopy for *in vivo* studies. Experience with UNIX operating system, image analysis and display software is a plus. (Ad Code: 991783C)

Scientist/Sr. Scientist (MRI/microCT)

Working in our Nuclear Magnetic Resonance group, in the Department of Physical and Structural Chemistry, you will perform and implement MRI and micro-computed tomography (uCT) experiments in support of drug discovery and development and execute program-related research projects.

We require a BS/MS in Chemistry, Physics, Biology, Computer Science, Biomedical or Electrical Engineering. Experimental background in NMR spectroscopic/imaging and/or other imaging techniques and their application to biological problems and the ability to plan and manage multiple tasks with minimum supervision is required. Experience with image analysis software in UNIX operating system and familiarity with statistical analysis of data is highly desirable. A strong motivation for working in an interdisciplinary research environment is required. (Ad Code: 991778C)

We have a state-of-the-art imaging facility with a 4.7T/40 cm and a 9.4 T/8.9 cm MRI systems and a Scanco micro-CT instrument. The imaging facility also houses a well equipped preclinical and image analysis laboratory.

SmithKline Beecham is dedicated to an innovative workplace and supports you with career long opportunities and learning. We offer a competitive benefits and compensation package. To be considered for these suburban Philadelphia, PA opportunities, please forward your scannable resume to: SmithKline Beecham, c/o National Resume Processing, (Ad Code), PO Box 1070, Burlington, MA 01803. Indicating Ad Code is essential. Principals only, no agencies, please. For a full listing of current opportunities, or to submit a resume online, visit our website at www.sb.com/careers

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UNIVERSITY OF
CALGARY

SYNAPTIC PHYSIOLOGIST

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The University of Calgary is a contemporary university that builds a spirit of discovery and inquiry while delivering a dynamic life and quality learning experience.

The University of Calgary Neuroscience Research Group and Department of Physiology & Biophysics invites applications from outstanding scientists investigating Synaptic Physiology. The position is open to candidates at the assistant, associate and full professor levels. We are seeking a candidate using innovative approaches involving electrophysiological, imaging and/or molecular techniques in mammalian systems to answer fundamental questions in physiology and plasticity of synaptic circuits. The candidate will join a research community with interests in neuroscience (www.ucalgary.ca/~neuro) and ion channels (www.ucalgary.ca/UofC/research/molbiol/) in the rapidly growing Faculty of Medicine, which is in the process of building a major new research facility. While duties also include teaching and graduate student supervision, 75% of time will be protected for research. Calgary is a vibrant, multicultural city (pop. ~800,000) located close to Banff National Park and the Rocky Mountains.

Qualifications include a PhD, MD or equivalent, and an established record of publications and demonstrated expertise in this area. Salary support and start-up funds are available through successful application to the Alberta Heritage Foundation for Medical Research and/or the Medical Research Council of Canada.

We seek applications from all interested persons. Please submit a curriculum vitae and a statement of research interests, and arrange to have three letters of reference sent directly, by December 30, 1999, to:

Dr. Keith Sharkey, Chair
Neuroscience Research Group
Faculty of Medicine
3330 Hospital Drive NW
Calgary, Alberta, Canada T2N 4N1
e-mail: ksharkey@ucalgary.ca

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada, although all nationalities are encouraged to apply. The University of Calgary respects, appreciates and encourages diversity.

www.ucalgary.ca

 **New York University**

FACULTY POSITION IN THE PHYSICAL SCIENCES

GENERAL STUDIES PROGRAM
SCHOOL OF CONTINUING AND
PROFESSIONAL STUDIES

The General Studies Program at New York University, an interdisciplinary great books Program for Freshman and Sophomore students, seeks a Master Teacher to develop and teach courses in the physical sciences for nonscience majors. This is a challenging opportunity to teach the physical sciences in the context of a liberal arts curriculum that places strong emphasis on students' engagement with primary textual material. Candidates must have a thorough knowledge of the quantitative aspects of the physical sciences as well as the rich historical and cultural connections between the developments of the sciences and the humanities.

Responsibilities include full-time teaching in the physical sciences each semester, student advisement, recruitment, and curriculum development. A doctorate in a field appropriate to teaching in the Physical Sciences or in Science Education and at least three years of teaching experience at the university level in science are required. This is a non-tenure position with a three-year renewable contract. Additional information regarding the General Studies Program is available at <http://www.nyu.edu/gsp/>.

Please forward resume no later than **November 13, 1999** to: NYU School of Continuing and Professional Studies, Human Resources, Box 106B, 25 West Fourth Street, Room 202, New York, NY 10012-1199.

NYU encourages applications from women and members of minority groups.



Deputy Director, Science NASA/Marshall Space Flight Center (MSFC) Huntsville, AL

The Science Directorate, NASA/MSFC seeks to fill the above Senior Executive Service (SES) position to provide scientific and engineering leadership and management in the generation and communication of new knowledge in areas of biotechnology, materials science, space science, earth science, and space optics manufacturing technology. The Directorate conducts basic and applied research, develops enabling technologies, and administers assigned NASA programs and projects. It is in process of implementing the National Center for Space Science and Technology (NSSTC) in cooperation with other Government agencies, academia, and industry. Preference will be given to applicants who have successful peer-reviewed publications and/or who have experience in leading state-of-the-art research and technology development.

An overview of current research can be found at <http://www.science.nasa.gov>

Inquiries: Dr. M. Franklin Rose, Director, Science Directorate, NASA MSFC, Huntsville, AL 35812; 256-544-7721 or frank.rose@msfc.nasa.gov.

Application: Apply under vacancy announcement MSFC ES-11-99. A full text job announcement and filing instructions are available at <http://hrd.msfc.nasa.gov/JOBS/ses.html> or by calling Sue Payne at 256-544-7530.

Head, Department of Biology Eastern Michigan University

Eastern Michigan University's Department of Biology seeks an individual with demonstrated leadership capabilities, a strong background in teaching, a record of research excellence, and achievement in attracting external funding. Successful administrative experience and a broad biological perspective are preferred. A Ph.D. in the biological sciences and five years college teaching experience are required. The successful candidate will have the opportunity to promote the development of a dynamic department and guide the implementation of the new core curriculum. There will also be opportunities to take advantage of the newly completed Terrestrial and Aquatic Ecology Research Facility, the Urban Water Resources Research Consortium, the Molecular Biology Research Facility and the nearby Kresge Environmental Education Center; and to develop interactions with colleagues at the nearby University of Michigan, Wayne State University, Parke-Davis Research Facility and NOAA Great Lakes Environmental Research Laboratory. The Department has 22 faculty with strengths in ecology and cell/molecular biology, and offers BS and MS degrees, with graduate program concentrations in Ecology and Organismal Biology, Molecular and Cellular Biology, Physiology, and General Biology. Eastern Michigan University, with an enrollment of 24,000 students, is located in Ypsilanti, adjacent to Ann Arbor.

Send cover letter, vitae, one page statement of administrative philosophy and three letters of recommendation to the address below. All materials must be received by November 22 (date extended from November 8 deadline earlier advertised). For more information, please contact the Search Committee co-chair, Dr. Cathy Bach (bio_bach@online.emich.edu) or the Personnel Committee chair, Dr. Gary Hannan (bio_hannan@online.emich.edu). Information about the department is also available at www.emich.edu/public/biology/bioweb.htm.

**Position APAA2003
202 Bowen**

**Eastern Michigan University
Ypsilanti, MI 48197**

Eastern Michigan University is an affirmative action/equal opportunity employer. We encourage women and members of minority groups to consider this opportunity.



HOWARD HUGHES MEDICAL INSTITUTE

The Howard Hughes Medical Institute conducts biomedical research in the areas of cell biology, genetics, immunology, neuroscience and structural biology at over seventy locations around the United States.

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- Research Secretaries

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- Receiving Clerks

Institute employees enjoy competitive salaries and an excellent benefits package. HHMI is an equal opportunity employer. Please visit our website at www.hhmi.org/jobs for a listing of available positions.

COLUMBIA UNIVERSITY COLLEGE OF PHYSICIANS AND SURGEONS

Faculty Positions in Developmental Neurobiology.

The Departments of Physiology and Cellular Biophysics, Pathology, Anatomy and Cell Biology, Biochemistry and Molecular Biophysics, and Genetics and Development and The Center for Neurobiology and Behavior invite applications from candidates who wish to study developmental neurobiology.

Preference will be given to candidates who address fundamental questions in areas ranging from cell lineage and specification, transcriptional regulation, and signaling to axon guidance and synaptogenesis and whose interests complement those of the existing groups of investigators of developmental neurobiology at this campus.

Applicants must hold an M.D. or a Ph.D. and be capable of establishing and maintaining a strong, independent research program.

Please send a curriculum vitae, a brief statement of research interests, and three letters of reference, by December 1, 1999, to:

Ms. Nontrel K. Carwell
Neurobiology Search
Columbia University
P&S 11-511
630 West 168th Street
New York, NY 10032

E-mail applications will not be accepted.

Columbia University is an equal opportunity/affirmative action employer.

ANNOUNCEMENTS

DOES THIS SOUND LIKE YOU OR SOMEONE YOU KNOW?

"I have long been interested in science, and in helping people. During my training, I had a number of clinical experiences which convinced me that I wanted to specialize in immunology at the bench, but still have patient contact."

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Has your interest always been to pursue medical research? Do the realities of staggering educational debt appear to prevent you from realizing your dreams? NIH offers a variety of clinical and basic science postdoctoral training fellowships that can be combined with educational loan repayment incentives. You owe it to yourself to know about these programs (or share the information with someone in need!) as you make your career decisions. You owe it to yourself to learn more about what NIH can do for you.

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NIH, the world's leading biomedical research facility, has trained thousands of qualified students in neuroscience, pathology, immunology, molecular genetics, developmental biology, cell biology, molecular biology, virology, and structural biology, to name only a few areas in our intramural research program.



For more information on the Loan Repayment Program and postdoctoral training, visit our websites at:

<http://www.training.nih.gov> and
<http://lrp.info.nih.gov>



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NIH is dedicated to building a diverse community in its training and employment programs.

POSITIONS OPEN

MARQUETTE UNIVERSITY DEAN OF THE COLLEGE OF ARTS AND SCIENCES

Marquette University invites applications and nominations for the position of Dean of the College of Arts and Sciences. Marquette is a student centered, Catholic, Jesuit university in Milwaukee, founded in 1881, serving more than 10,000 students in 35 Master's and 17 Doctoral-level programs. The College of Arts and Sciences is the oldest and largest college, whose 277 full-time faculty are committed teachers-scholars. The college offers 34 academic majors through 16 departments. The university seeks candidates with administrative experience, excellent communication skills, and commitment to collegial governance and to excellence in teaching and research. The dean must qualify at the rank of Full Professor in one of the college departments and will provide leadership in planning, development, campaign fundraising, and promotion of the educational and research programs of the college. The dean reports to the Vice President for Academic Affairs and represents the college to the broader university, business community, and the public. See full ad copy and more about mission and academic excellence at Marquette at the dean's search committee website: http://www.marquette.edu/library/as_dean/. Review of applications will begin immediately and will continue until a candidate is selected. The new dean is expected to assume the position in June 2000. Applications should include a current curriculum vitae and three references. Nominations and applications should be sent to: **Dr. Nicholas Burckel, Chair, Search Committee, Marquette University, P.O. Box 3141, Milwaukee, WI 53201-3141. Telephone: 414-288-7214; FAX: 414-288-7813.** Marquette is an Affirmative Action/Equal Employment Opportunity Employer actively seeking applications from women and minorities.

The Division of Hematology invites applications from candidates with a M.D. or M.D./Ph.D. for a faculty position at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Candidates should have independent funding and an outstanding record of productivity in either: (a) vascular biology-thrombosis, cellular inflammation, angiogenesis; or (b) leukemia research-oncogenes, stem cell biology, lineage determination. The amount of clinical responsibility is negotiable. New laboratory and office space will be provided, along with generous start-up support. This position is in the tenure-track Professoriate. The successful candidate will participate in the Program of Molecular and Genetic Medicine at Stanford. Applicants should send a curriculum vitae, statement of research interests, and the names and addresses of three references to: **Lawrence Leung, M.D., Chief, Division of Hematology, Room S161, Stanford University School of Medicine, 300 Pasteur Drive, Stanford, CA 94305-5112.**

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

COLUMBIA UNIVERSITY BIOSPHERE 2 CENTER

ASSISTANT PROFESSORSHIP in earth science. Columbia University Biosphere 2 campus in Arizona. Teach in interdisciplinary Earth Semester, a three-year-old, highly successful undergraduate program integrating earth science, conservation biology, and environmental policy. Successful candidate will join resident faculty and be expected to teach lectures, labs, and field trips, and sustain an active research program. Position begins January 1, 2000. Applicants must hold, or be very close to completing, Ph.D. Some background in Southwestern systems is especially valuable. Send curriculum vitae, list of references, and a letter describing teaching and research interests to: **HR, Biosphere 2 Center, P.O. Box 689, Oracle, AZ 85623. FAX: 520-896-5019; website: www.bio2.edu.** Application deadline is November 7, 1999. Columbia University is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSITIONS OPEN

CORNELL UNIVERSITY

Weill Medical College

NEUROSCIENCE

TENURE-TRACK POSITIONS

In Developmental Neurobiology

Molecular Neuroscience

Signal Transduction

Visual Systems

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

Recruited faculty will receive generous start-up support. Candidates may participate in the Graduate School of Medical Sciences program, which includes faculty from the Weill Medical College and the Sloan-Kettering Institute. Faculty appointment could be in any basic science and/or clinical department. Applications should include a curriculum vitae, statement of research interests, and three letters of recommendation. Applications should be sent to: **Jack D. Barchas, M.D., Chair, Neuroscience Recruitment Committee, Box #27, Weill Medical College of Cornell University, 1300 York Avenue, New York, NY 10021.**

Equal Employment Opportunity/Affirmative Action/Minorities/Females/Disabled/Veterans.

CYTOGENETICIST UNIVERSITY OF VERMONT DEPARTMENT OF PATHOLOGY AND VERMONT CANCER CENTER

The Department of Pathology and the Vermont Cancer Center at the University of Vermont is seeking a faculty member at the **ASSISTANT PROFESSOR** or **ASSOCIATE PROFESSOR** level (tenure-track) with expertise in cytogenetics to direct the clinical cytogenetics laboratory. The ideal candidate will have a defined research focus with a proven track record and will be expected to aggressively seek extramural support and develop programs in the molecular cytogenetics of cancer. This position will be expected to play a role in the development of a human genetics curriculum at The University of Vermont's College of Medicine and will also actively participate in all aspects of academic and clinical human genetics in the College of Medicine and Fletcher Allen Health Care. Qualifications include a M.D., Ph.D., or M.D./Ph.D. degree, Board eligible or certified in clinical cytogenetics. In addition, preference will be given to those candidates who are Board eligible or certified in molecular genetics. Salary will be commensurate with qualifications/experience. Applications will be accepted until February 1, 2000.

Interested candidates should send a curriculum vitae and names and addresses of three references to:

**Edwin G. Bovill, M.D.
Professor and Chairman
Department of Pathology
University of Vermont
College of Medicine
A-249 Medical Alumni Building
Burlington, VT 05405**

Equal Opportunity/Affirmative Action Employer. Applications are especially encouraged from women and individuals of diverse racial, ethnic, and cultural backgrounds.

POSITIONS OPEN

ENVIRONMENTAL PHYSIOLOGY

The T. H. Morgan School of Biological Sciences invites applications for a tenure-track **FACULTY POSITION** in environmental physiology to begin in August 2000. We are beginning an expansion of our research group in environmental biology and seek an individual of exceptional promise engaged in research on how organisms respond to chemical or other anthropogenic stressors. Areas of particular interest include ecotoxicology, bioindicators, immunobiology, developmental biology, and risk assessment, including implications at the population and community levels; other areas that complement existing expertise will be considered. The successful candidate will be expected 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 towards the school's curriculum. Excellent start-up support, research space, facilities, and opportunities for multidisciplinary interactions are available. For additional information consult our website: www.uky.edu/ArtsSciences/Biology. Applicants should have letters sent by at least three references and submit curriculum vitae, an outline of research accomplishments, a brief research plan, and a statement of teaching interest to: **Environmental Physiology Search Committee, T. H. Morgan School of Biological Sciences, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0225.** Review of applications will begin December 8, 1999.

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

COGNITIVE NEUROSCIENCE DUKE UNIVERSITY

The Center for Cognitive Neuroscience at Duke University seeks Cognitive Neuroscientists for Faculty positions. A demonstrated capability or exceptional promise for developing a first-rank, independent, extramurally funded research program at the cutting edge of cognitive neuroscience is required. New faculty will hold appointments at the **ASSISTANT, ASSOCIATE, and FULL PROFESSOR** levels in various university departments, and will participate in both undergraduate and graduate education. Research facilities include the new Brain Imaging and Analysis Center in Duke Medical School, which houses 1.5T and 4T GE MRI scanners dedicated to neuroimaging research. Candidates should submit a statement of research and teaching interests, curriculum vitae, representative publications, and three letters of recommendation to: **Dr. George R. Mangun, Director, Center for Cognitive Neuroscience, Box 90999, Duke University, Durham, NC 27708** (for courier use: **L3RC Building, Room B203**). Telephone: 919-668-2512; FAX: 919-681-0815; website: <http://www.mind.duke.edu>. Applications received by December 1, 1999, will be guaranteed consideration. Duke University is an Equal Opportunity/Affirmative Action Employer.

Geneticist. The Department of Biology, James Madison University invites applications for tenure-track **ASSISTANT PROFESSOR** position to start August 2000. We seek an animal or plant geneticist to teach introductory and advanced genetics courses and to involve undergraduate and Master's students in research. Essential qualifications: Ph.D., evidence of excellent teaching and communication skills, evidence of active research. See website: <http://www.jmu.edu/biology/jobs.html>. Send curriculum vitae, separate statements of research interests and teaching philosophy, three letters of recommendation to: **Genetics Search, Department of Biology, MSC 7801 James Madison University, Harrisonburg, VA 22807.** Review of applications begins November 29, 1999. Applications and nominations should be received by that date in order to assure consideration. James Madison University is an Equal Opportunity/Affirmative Action/Equal Access Employer and especially encourages applications from minorities, women, and persons with disability.

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capabilities. Enjoy the freedom to develop your own career while having the support of a valuable team.

Neuropharmacologists **BS/MS and/or Ph.D.** **Princeton, NJ**

Research will be focused on in vitro and in vivo experimental studies emphasizing a multi-disciplinary approach to CNS drug discovery. Duties will range from screening novel compounds to developing new assays and performing basic research in neuropsychopharmacology.

Qualifications include an MS or BA/BS in neuroscience, pharmacology, biology or a related discipline, and two or more years of industrial/academic experience; or a Ph.D. with 0-2 years of relevant experience. A background in one or more of the following areas is essential: receptor binding, second messenger system assays, measurement of neurochemical parameters, protein biochemistry, and/or neuroanatomical techniques including immunocytochemistry. A working knowledge of molecular biology and the application of these techniques to pharmacological studies would be beneficial. The individual should also have excellent computer skills and be familiar with computer-assisted data analysis and imaging systems. The ability to interact in a team environment is an important attribute.

Wyeth-Ayerst offers competitive compensation and benefits programs including stock options, child-care subsidies, business casual Fridays, educational assistance and professional development programs. Please forward your resume with salary requirements to: **Wyeth-Ayerst, Reference OPSCI, P.O. Box 7886, Philadelphia, PA 19101-7886. Fax in fine mode to: (610) 989-4854. E-mail: jobs@RAMAIL1.wyeth.com (ASCII format, no attachments, subject: resume). Principals only. Equal Opportunity Employer, M/F/D/V.**

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UNIVERSITY OF MINNESOTA

Institute of Human Genetics and Department of Genetics, Cell Biology, and Development Tenure-Track Assistant Professor in Gene Transfer/ Genome Manipulation

The Institute of Human Genetics (IHG), now in its 15th year, comprises researchers from clinical and basic sciences using both human and animal model systems. IHG research efforts are currently focused on Cancer Genetics, Genetics of Complex Diseases, Neurogenetics, and Gene Therapy. The IHG, in conjunction with the newly-formed Department of Genetics, Cell Biology, and Development (GCD), seeks candidates for a new tenure-track position at the Assistant Professor level in the field of Gene Transfer/ Genome Manipulation.

Candidates must have a Ph.D. and/or M.D. degree, at least two years of postdoctoral experience, and a strong publication record. Candidates must be U.S. citizens or be able to secure permanent resident status. The successful candidate is expected to develop an independent, extramurally funded research program and will participate in the teaching of undergraduate, graduate, and/or professional students. Scientific interactions with both basic and clinical scientists in diverse disciplines will be encouraged, and a strong association with faculty of the Gene Therapy Program and the new Arnold and Mabel Beckman Center for Transposon Research is anticipated. The successful candidate will hold a tenure-track appointment in GCD, and the starting salary will be commensurate with education and experience.

Please send a curriculum vitae, statement of research interests, and three letters of recommendation that consider both research and teaching potential to: **Debra Lozowy, Search Committee, University of Minnesota, Institute of Human Genetics, Box 206 Mayo, 420 Delaware Street SE, Minneapolis, MN 55455, U.S.A.**

Applications must be received by December 1, 1999.

The University of Minnesota is an equal opportunity educator and employer.

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

The School of Molecular and Cellular Biology at the University of Illinois at Urbana-Champaign invites applications for **faculty positions in any area of Molecular and Cellular Biology**. Areas of special interest include, but are not limited to:

**Cell Biology; Developmental Biology; Cellular
Neurobiology; Immunology; and 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 2000. Appointment at the Assistant Professor level requires a Ph.D. or M.D./Ph.D. 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.

This search is part of a broad campus effort to develop molecular and cellular biology in the context of the biotechnology initiative, the College of Medicine, the College of Liberal Arts and Sciences, and other campus units. The University of Illinois is committed to significant future growth in this area 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. Information concerning Molecular & Cellular Biology at the University of Illinois can be found at <http://www.life.uiuc.edu/mcb/index2.html>.

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. Area(s) of expertise should be identified at the top of the cover letter. Applications should be addressed to:

**School of Molecular and Cellular Biology
University of Illinois at Urbana-Champaign
393 Morrill Hall, 505 S. Goodwin Ave.
Urbana, IL 61801
FAX: 217-265-0927**

Electronic submissions are encouraged and should be sent to mcbsearch@life.uiuc.edu. To ensure full consideration, applications should be received by Dec. 6, 1999. Interviews may be conducted before the closing date but no offers will be made before that time.

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

POSITIONS OPEN

THREE FACULTY POSITIONS IN BIOLOGY

Juniata College ([website: www.juniata.edu](http://www.juniata.edu)) invites applications from broadly trained Biologists for three **TENURE-TRACK** positions in its Biology Department made available by retirements and a major expansion of the department's focus in the areas of biochemistry, cell and molecular biology (BCMB). Construction of a new 75,000-square foot science building, projected to be complete for the 2002-2003 academic year, will house the BCMB faculty of the Biology Department as well as the Chemistry Department. The three positions are in the areas of (1) developmental biology, (2) genetics, and (3) neuroscience. Preference will be given to individuals utilizing nonmammalian models (vertebrate or invertebrate) in their research. We seek individuals with postdoctoral and teaching experience whose research programs apply molecular approaches to integrative problems at the organismal and/or population levels. Teaching responsibilities will include upper-division courses in the area of specialization and participation in a combined biology/chemistry freshman laboratory course as well as courses for non-majors. Candidates must be willing to mentor students in supervised independent research for which they will receive teaching credit. Start-up funds and dedicated research space will be provided. Applicants should submit one-page statements of (1) teaching experience, philosophy, and interests and (2) a description of their research program appropriate for engaging undergraduates in research at a liberal arts college, as well as (3) a curriculum vitae, (4) undergraduate and graduate academic transcripts, and (5) three letters of recommendation to: the area name of the position given above (e.g., **Genetics**), **c/o Gail Leiby Ulrich, Director of Human Resources, Juniata College, Huntingdon, PA 16652**. Review of the applications will begin November 8, 1999, and continue until the positions are filled. *Juniata College is committed to gender and cultural diversity and encourages applications from women and minorities.*

FACULTY POSITIONS IN GEOCHEMISTRY AT YALE UNIVERSITY

The Department of Geology and Geophysics at Yale University is starting a new multidisciplinary hiring initiative in earth science, which will include several ladder faculty appointments in the general area of geochemistry, starting as early as January 2000. We invite applications from both Junior- and Senior-level candidates who will develop internationally recognized research programs in collaboration with present and future Yale geoscientists. The positions will include teaching at both undergraduate and graduate levels. All subfields will be considered, including, but not limited to: biogeochemistry, earth surface chemical processes, experimental geochemistry, mantle geochemistry, organic geochemistry, radiogenic and stable isotopes, and theoretical geochemistry. Closing date for applications is November 30, 1999.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three or more referees to:

Geochemistry Search Committee
c/o Professor Danny Rye, Chair
Department of Geology and Geophysics
Yale University
P.O. Box 208109
New Haven, CT 06520-8109

We encourage applicants from historically disadvantaged ethnic, racial, and gender categories. Yale University is an Equal Opportunity Employer.

The Department of Psychology, University of California, Santa Barbara, invites applications for a tenure-track position (**ASSISTANT PROFESSOR**) in the area of vision science. For particulars see full advertisement at [website: http://www.psych.ucsb.edu/position/visionfac99.htm](http://www.psych.ucsb.edu/position/visionfac99.htm). Deadline November 15, 1999. *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

The University of Alabama in Huntsville (UAH) invites applications for the position of **CHAIR** of the Department of Chemistry. The Chair ordinarily also serves as the Director of the Materials Science Graduate Program. Candidates should hold a Ph.D. in chemistry or chemistry-related field, qualify for appointment at the rank of Professor, and should be willing to assume leadership of the department. In addition, applicants should have an internationally recognized research program with excellent teaching credentials at the undergraduate and graduate levels and an established record of university and professional service. The Department offers B.S. and M.S. degrees in chemistry and M.S. and Ph.D. degrees in materials science. A doctoral program in biotechnology is expected to start in 2001. The department shares facilities and personnel with the Laboratory for Structural Biology, Laboratory for Materials and Surface Science, and the Center for Microgravity and Materials Research. We collaborate with NASA's Marshall Space Flight Center (MSFC) and many Huntsville space and biotechnology companies. The department occupies 90,000 square feet of laboratories and offices and currently expends more than \$6.5 million annually on research. UAH is a Carnegie Doctoral II university offering degree programs in the liberal arts and sciences, nursing, business, and engineering. Total enrollment is 6,800 with about 20 percent in graduate programs concentrated in engineering and the physical sciences. Research contracts and grant awards and expenditures, which are largely in the physical sciences and engineering, annually average \$30 to \$35 million. Located in Huntsville, Alabama, a technology-oriented community with a metropolitan population of 350,000, the university serves as a cultural focal point for a scientifically literate population. In addition to MSFC, Huntsville is home to the Army's Aviation and Missile Command, and the Army's Space and Strategic Defense Command. Numerous Fortune 500 companies have home offices, major facilities, or a significant presence in Huntsville. Additional information about the Chemistry Department and UAH can be found at [websites: http://chemistry.uah.edu](http://chemistry.uah.edu), <http://matsci.uah.edu>, and <http://www.uah.edu>. Applicants should submit a curriculum vitae, statement of their research plans, and the names of three references to: **Professor James K. Baird, Department of Chemistry, The University of Alabama in Huntsville, MSB 203C, Huntsville, AL 35899 USA**. Review of applications will begin December 1, 1999. Starting date is August 17, 2000. *Applications from women and minority candidates are encouraged. The University of Alabama in Huntsville is an Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION

The newly opened Biomedical/Biotechnology Research Institute at North Carolina Central University is seeking applicants for a tenure-track position at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR** in the Cardiovascular Disease Research Program. The successful candidate will have demonstrated ability to build an independently funded research program in one of several areas, including developmental or endothelial biology, molecular genetics, neural regulation, renal function, or vascular signaling. A competitive salary and generous start-up package is available, and outstanding opportunities exist for collaboration with scientists both in the institute and at neighboring institutions including the University of North Carolina-Chapel Hill, Duke, and the Research Triangle Park. Applicant should hold a Ph.D. and/or M.D. degree. Send curriculum vitae, names of three references, and a statement of career goals to: **Dr. Richard Bukoski, Ph.D., Director of Cardiovascular Disease Research Program, BBRI, North Carolina Central University, Durham, NC 27707**. E-mail: rbukoski@wpo.nccu.edu.

North Carolina Central University is a constituent institution of the University of North Carolina System and an Equal Opportunity/Affirmative Action Employer. North Carolina Central University complies with the Immigration Reform and Control Act of 1986.

POSITIONS OPEN

FACULTY POSITIONS IN ATMOSPHERE OCEAN, CLIMATE DYNAMICS AT YALE UNIVERSITY

The Department of Geology and Geophysics at Yale University announces a search for several ladder faculty positions in the general area of atmosphere, ocean, and climate dynamics. We seek both Junior and Senior applicants with records of creative research and subject areas that improve understanding of modern atmospheric and oceanic processes and/or the evolution of the Earth's climate on geologic time scales. Areas of special interest include atmosphere/ocean modeling; climate-system modeling; coupled air-sea interaction; dynamical meteorology and oceanography; glaciology; hydrology; remote sensing; and the physics, dynamics, and chemistry of clouds. New appointments at Yale in these areas will contribute to a broad emphasis in the department on paleoclimatology, paleo-environments, and global change. Additional appointments in the department will be made in areas of active tectonics and geomorphology, geochemistry, paleontology, and solid-earth geophysics. Closing date for applications is November 30, 1999.

Applicants should send a curriculum vitae, a statement of professional goals, and the names and addresses of three or more referees to:

AOCD Search Committee
c/o Professor Danny Rye, Chair
Department of Geology and Geophysics
Yale University
P.O. Box 208109
New Haven, CT 06520-8109

We encourage applicants from historically disadvantaged ethnic, racial, and gender categories. Yale University is an Equal Opportunity Employer.

FACULTY POSITION SIGNAL TRANSDUCTION

The Department of Molecular Biosciences at the University of Kansas invites applicants for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. The department is undergoing major expansion and this year seeks candidates with a demonstrated ability to carry out innovative research in the general area of signal transduction. All subdisciplines of this field will be considered including biochemistry/structural biology, cell and developmental biology, immunology/microbiology, and neurobiology. The candidate is expected to have a Ph.D., postdoctoral experience, and to participate in undergraduate and graduate teaching. Applicants should send their curriculum vitae, selected reprints, a brief statement of present and future research plans, and three to five letters of recommendation to: **Dr. Robert Cohen, Search Committee Chair, Department of Molecular Biosciences, University of Kansas, Lawrence, KS 66045**. Review of applications will begin December 1, 1999. Position is contingent upon budgetary approval. [Website: www.ukans.edu/~bcmic/bcmpcb/bcmbfdev.html](http://www.ukans.edu/~bcmic/bcmpcb/bcmbfdev.html). *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR ENVIRONMENTAL TOXICOLOGY

Tenure-track position at the level of Assistant/Associate Professor. Applicant must maintain an extramurally funded research program in environmental toxicology and participate in the teaching of students at the undergraduate and graduate levels. Applicants must have a Ph.D. degree and a minimum of two years of postdoctoral experience in toxicology. Letter of research interests, curriculum vitae, and names, addresses, and e-mail addresses of three references should be sent to: **Administrative Manager, School of Pharmacy, Thad Cochran NCNPR, Room 1026, The University of Mississippi, University, MS 38677**.

Evaluations begin December 1, 1999. [Website: www.olemiss.edu/depts/pharmacology](http://www.olemiss.edu/depts/pharmacology). *Equal Employment Opportunity/Affirmative Action/Title VI/Title IX/Section 504/ADA/ADEA Employer.*

Tenure Track Faculty Positions in Neural Engineering at Washington University

The Department of Biomedical Engineering at Washington University in St. Louis invites applications for junior or senior level tenure-track faculty positions in the field of Neural Engineering. We are seeking candidates with a PhD or equivalent degree in bioengineering or a closely-related discipline and who have exceptionally strong expertise and interest in developing and applying engineering principles to the study of neural systems or in applying neurobiologically derived insights to problems in engineering. Areas of interest include pattern recognition, sensory-motor processing, and neuroimaging.

These positions represent a major expansion of the department supported, in part, by recent Development and Special Awards from the Whitaker Foundation that will enable the construction of a new building for the department. The department is closely affiliated with the Institute of Biological and Medical Engineering, a joint enterprise of the Schools of Engineering and Medicine that includes a large and diverse neuroscience community.

Successful applicants at the junior level will be expected to establish an independent research program with extramural funding. Distinguished, senior level applicants with an outstanding record of educational and research accomplishments will be considered for one of the newly endowed chairs in the department. The successful applicant will be expected to establish research collaborations with other engineers and neuroscientists at Washington University. He/she would also be expected to develop and teach biomedical engineering courses at the undergraduate and graduate levels. (Please visit our website: <http://www.seas.wustl.edu/academicprograms/biomed/>)

Applicants should send a curriculum vitae, a statement of their ongoing research program and future goals, and names of at least three references (plus addresses, fax, and email). Applicants may respond by email to susan@pcg.wustl.edu or by mail:

Neural Engineering Search Committee
c/o Susan Danker, Box 8108
Department of Anatomy and Neurobiology
Washington University Sch Med
660 S. Euclid Ave.
St. Louis, MO 63110



Preference will be given to applications received before January 15, 2000.
Washington University is an equal opportunity employer.

Neuroscience Developmental Neurobiologists University of Colorado Health Sciences Center School of Medicine Denver, Colorado

The Neuroscience Program and Center at the University of Colorado Health Sciences Center seeks developmental neurobiologists at the Assistant Professor level in tenure-eligible positions. Successful candidates will have a Ph.D., an M.D., or an M.D./Ph.D. with a strong record of pre- and postdoctoral research using molecular and genetic approaches to neural development. Model systems may be vertebrate or invertebrate.

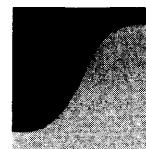
The Neuroscience Program has 32 faculty in four basic sciences and four clinical departments. The program awards a Ph.D. in Neuroscience. There are currently 20 students in the graduate program. Please see our web page: <http://www.uchsc.edu/sm/neuroscience>.

Appointments will be to departments appropriate for the background and interests of the candidates and participating departments. The Department of Cellular and Structural Biology and the Department of Pediatrics, Sections of Genetics and Neurology are particularly interested in these recruitments. Candidates will be expected to develop an independent research program with peer-reviewed funding and to participate in teaching of graduate students and medical students. Review of candidates will begin November 15.

Candidates should send curriculum vitae, names of references, and a one-page summary of research goals to: **Curt R. Freed, M.D., Director, Neuroscience Program and Center, University of Colorado Health Sciences Center, Box B138, 4200 E. Ninth Ave., Denver, CO 80262.**

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

ACADIA Pharmaceuticals Inc.
Attn: HR-UH
3911 Sorrento Valley Blvd.
San Diego, CA 92121
hr@acadia-pharm.com EOE
www.acadia-pharm.com



ACADIA Pharmaceuticals is a drug discovery company that integrates proprietary high-throughput (HT) pharmacological and genomic technologies to accelerate the identification of compounds that selectively target neuronal function. Internal research is focused on schizophrenia, Alzheimer's disease, depression, orphan GPCR's, and feeding disorders. Corporate headquarters and biological research are located in San Diego, California (CA); chemistry research facilities are located in Copenhagen, Denmark (DK).

The following job opportunities are currently available (see also www.acadia-pharm.com):

Group Leaders, Molecular Pharmacology (CA): We seek dynamic scientists with significant experience in molecular genetics and molecular pharmacology. The successful candidates will lead groups seeking novel treatments of neuropsychiatric disease. Ph.D. or equivalent with several years of experience in a research environment and a proven ability to manage a group/team.

Scientist, In Vivo Pharmacology (CA): The appropriate candidate should have hands-on expertise in animal experimentation and will design and evaluate major experiments. Additional tasks involve preparation of associated documentation for research programs and contact with external consultants. A Ph.D. or equivalent experience in a research environment is required.

Group Leader, Synthetic/Medicinal Chemistry (DK): A creative chemist is sought to lead a synthetic/medicinal chemistry group using traditional chemistry as well as HT solution/solid phase synthesis to generate CNS-active small molecules. A Ph.D. or equivalent with several years of experience and a proven ability to manage a group/team is required.

POSITIONS OPEN

INTERNATIONAL ARCTIC RESEARCH CENTER UNIVERSITY OF ALASKA

Job Title: **ASSISTANT or ASSOCIATE RESEARCH PROFESSOR**, marine biogeochemistry.
Department: International Arctic Research Center (IARC).

Location: Fairbanks, Alaska.

Closing Date: Open until filled. Review of applications to begin 1 November 1999.

The Frontier Group of the International Arctic Research Center (IARC) at the University of Alaska Fairbanks invites applications for a research faculty position at the Assistant or Associate Professor level in the areas of biogeochemistry using both observations and model simulations. Applicants with trace substance analytical skills or isotopic tracer skills are encouraged to apply. Candidates should have experience in relating analytical data to ecological problems and/or biological modeling.

The successful candidate is encouraged to work closely with scientists at the IARC/Frontier and UAF Institute of Marine Sciences and Geophysical Institute who have expertise in various arctic geophysical processes (see **websites: www.frontier.iarc.uaf.edu:8080, www.ims.alaska.edu:8000, and www.gi.alaska.edu**) and is expected to have a Doctorate in biology, chemistry, or marine science or closely related fields by the time of appointment.

Term of Employment: This position is term-funded with an expected duration of five years. For purposes of collective bargaining, this position is represented by a union. The successful candidate will be obligated to pay to the union an agency fee as a condition of employment.

Application: Please send a letter of application, curriculum vitae, statement of research interests, and experience to: **Dr. Donald M. Schell, Chair, Biogeochemist Search Committee, Institute of Marine Science, University of Alaska Fairbanks, P.O. Box 757220 (905 Koyukuk Drive), Fairbanks, AK 99775-7220 USA. Telephone: 907-474-7978; FAX: 907-474-5863; e-mail: schell@ims.uaf.edu**. Please include names and addresses of at least three persons who will be able to provide letters of recommendation. The vacancy announcement can be viewed at **website: http://www.gi.alaska.edu/admin/human_resources/jobs/index.htm**.

The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer and Educational Institution. Your application for employment with the University of Alaska is subject to public disclosure under the Alaska Public Records Act.

The Department of Biology at New Mexico State University seeks a tenure-track **ASSISTANT PROFESSOR** of biology working in applied or environmental microbiology who can teach a medical microbiology course (with lab) and participate in general and/or human biology courses. The successful candidate will be expected to seek external funds in developing a research program in an area such as: microbial pathogen population structure and dynamics, environmental reservoirs of pathogens, evolution of virulence, or microbial genome analysis. The department has facilities available to support P-2 level pathogen research, and offers the B.S. in microbiology and the B.S., M.S., and Ph.D. in biology. Opportunities are available to participate in the graduate program in molecular biology and the NIH-sponsored Minority Biomedical Research Support (MBRS) program. For more information on the department, see **website: <http://www.cs.nmsu.edu/~biology/>**. Applicants must have a Ph.D. in an appropriate field, and postdoctoral experience is preferred. Send a curriculum vitae, statements of teaching and research philosophies, and three letters of reference to: **NMSU Microbiology Search—Dr. Geoffrey Smith, Biology Department MSC 3AF, Box 30001, Las Cruces, NM 88003. Telephone: 505-646-6808**. Deadline for applications is November 30, 1999, or until a suitable candidate is identified. *New Mexico State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN



ASSISTANT PROFESSOR TENURE-TRACK POSITION MEDICAL BIOTECHNOLOGY CENTER University of Maryland, Biotechnology Institute

The Medical Biotechnology Center (MBC) seeks to fill the first of several available tenure-track positions for an independent Scientist to work in an exciting, multidisciplinary environment. The MBC, a research center dedicated to molecular medicine through biotechnology, is one of five research centers of the University of Maryland Biotechnology Institute (UMBI)—**website: <http://www.umbi.umd.edu>**. The MBC is located on the campus of the University of Maryland, Baltimore in a newly constructed, state-of-the-art research facility. Center faculty include cellular and molecular biologists, engineers, and physicists and chemists who investigate basic and applied problems in medicine. Current faculty address fundamental questions in bioengineering and optical biology, sensing, neurobiology, genetics, cardiovascular diseases, cellular signaling, and protein structure.

We seek a highly talented Biologist/Engineer who uses innovative interdisciplinary approaches to study biologically important problems who will complement ongoing research activities, and can successfully establish a strong, extramurally funded research program. The technology and economic development mission of UMBI makes candidates whose research is linked to imaginative applications attractive. The successful candidate will be provided competitive salary, space, and start-up funds.

Please send a letter of application, a statement of research interests, an up-to-date curriculum vitae, copies of four publications, and the names and addresses of three or more references (with telephone/FAX/e-mail information). The references should include the candidate's Ph.D./M.D. advisor and most recent postdoctoral advisor as well as others who can assess the candidate's potential for success. Review of applications will begin November 19, 1999, and continue until a suitable candidate is selected. Please send all information to:

**W. J. Lederer, M.D., Ph.D.
Chair, Faculty Search Committee
Medical Biotechnology Center
University of Maryland Biotechnology Institute
725 West Lombard Street, Baltimore, MD 21201**

MBC/UMBI is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and candidates with disability are encouraged to apply.

ASSISTANT PROFESSOR DEPARTMENT OF NEUROSCIENCE University of California, Riverside

A tenure-track position available beginning July 1, 2000, in the Department of Neuroscience, University of California, Riverside. We seek an outstanding individual using cellular/molecular/genetic approaches to address basic questions in the broad area of neuroscience, particularly but not limited to developmental questions. Ph.D. or equivalent required; postdoctoral experience strongly preferred. It is expected that the successful candidate will establish an independent, externally funded research program, participate in the interdepartmental graduate programs in neuroscience and cell, molecular, and developmental biology, and teach neuroscience courses at graduate and undergraduate levels. Application deadline: December 10, 1999. Send curriculum vitae, copies of publications, statements of research and teaching interests, and name, address, telephone, and FAX numbers for at least three potential references to: **Chair, Faculty Search Committee, Department of Neuroscience, University of California, Riverside, CA 92521**. *The University of California is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

INTERNATIONAL ARCTIC RESEARCH CENTER UNIVERSITY OF ALASKA

Job Title: **RESEARCH PROFESSOR**, biogeochemistry.

Department: International Arctic Research Center (IARC).

Location: Fairbanks, Alaska.

Closing Date: Open until filled. Review of applications to begin 1 November 1999.

The Frontier Group of the International Arctic Research Center (IARC) at the University of Alaska Fairbanks (UAF) seeks an internationally recognized Scientist for a Senior Research Faculty position at the Professor level. The successful candidate may be asked to assume leadership responsibilities and must have good communication skills and broad interests in the areas of geology, biology, and/or geochemistry. Experience in applications to modern and paleo arctic climatology is sought. The ability to couple biogeochemical process information to physical climate models is desirable but not a prerequisite.

The successful candidate is encouraged to work closely with scientists at the IARC/Frontier and UAF Institute of Marine Sciences, Institute of Arctic Biology, and Geophysical Institute who have expertise in various arctic geophysical processes (see **websites: www.frontier.iarc.uaf.edu:8080, www.mercury.bio.uaf.edu, www.ims.alaska.edu:8000, and www.gi.alaska.edu**). Candidates are expected to have a doctorate in biology, chemistry, or marine science or closely related fields.

Term of Employment: This position is term-funded with an expected duration of five years. For purposes of collective bargaining, this position is represented by a union. The successful candidate will be obligated to pay to the union an agency fee as a condition of employment.

Application: Please send a letter of application, curriculum vitae, statement of research interests, and experience to: **Dr. Donald M. Schell, Chair, Biogeochemist Search Committee, Institute of Marine Science, University of Alaska Fairbanks, P.O. Box 757220 (905 Koyukuk Drive), Fairbanks, AK 99775-7220 USA. Telephone: 907-474-7978; FAX: 907-474-5863; e-mail: schell@ims.uaf.edu**. Please include names and addresses of at least three persons who will be able to provide letters of recommendation. The vacancy announcement can be viewed at **website: http://www.gi.alaska.edu/admin/human_resources/jobs/index.htm**.

The University of Alaska Fairbanks is an Equal Opportunity/Affirmative Action Employer and Educational Institution. Your application for employment with the University of Alaska is subject to public disclosure under the Alaska Public Records Act.

ASSISTANT PROFESSORS OF BIOLOGY TWO TENURE-TRACK POSITIONS

The Department of Biological Sciences at Indiana University South Bend (IUSB) invites applications for two tenure-track positions at the Assistant Professor level in (1) ecology and (2) cell biology beginning August 2000. A Ph.D. is required for each position; postdoctoral experience is preferred. Primary responsibilities will be teaching introductory biology and upper-level courses in areas of expertise. The successful candidates will also be expected to establish active research programs involving undergraduates. Cell Biologist employing modern molecular approaches will be preferred, as will Ecologist with strong field experience and field components to their research. Send curriculum vitae, a description of teaching and research interest, and three letters of reference to: **Dr. Douglas Duff, Department of Biological Sciences, Indiana University South Bend, P.O. Box 7111, South Bend, IN 46634-7111**. Deadline for both positions is December 15, 1999. *IUSB is strongly committed to achieving excellence through cultural diversity. The University actively encourages applications from women, persons of color, applicants with disabilities, and members of other under-represented groups.*

BIOLOGICAL SCIENCES AT DUKE UNIVERSITY

Five tenure-track positions

SYSTEMATICS. We seek a broadly trained systematist with research expertise in vascular plants, algae, or lichenized fungi for a tenure-track position as Assistant Professor. The systematic botany group has a long tradition of research and training, with strong links to the university-wide program in evolutionary biology. We are especially interested in candidates who use a combination of collections-based, experimental, and molecular approaches, and whose interests promote interactive links with evolutionary biologists, molecular biologists, and ecologists. The successful candidate will be expected to develop an externally funded research program, and participate in teaching at both the undergraduate and graduate level. For additional information see <http://www.botany.duke.edu>. Applicants must provide 1) a CV, 2) a letter detailing accomplishments, future research plans, and teaching goals, 3) reprints of recent papers, and 4) arrange for three letters of reference to be sent directly to: **Dr. A. Jonathan Shaw, Systematics Search Committee, 139 Biological Sciences Building, Box 90338, Duke University, Durham, NC 27708-0338. Tel. 919-660-7372.**

CELLULAR AND DEVELOPMENTAL BIOLOGY. We seek two biologists with research interests in the molecular aspects of genetics, cell biology and/or development. Applications at both Assistant Professor and more senior levels will be considered. We are interested in applicants who have made important research contributions, have the ability to establish a strong independent research program, and who have a strong commitment to undergraduate and graduate teaching in an Arts and Science environment. Applicants should send information requested below to the CDB Search Committee.

PLANT DEVELOPMENTAL BIOLOGY. We seek a biologist using genetic, biochemical and molecular approaches to study aspects of plant development. The successful candidate will be expected to develop an externally funded research program and participate in teaching undergraduate and graduate courses. This is a tenure-track appointment as Assistant Professor. Applicants should send information requested below to the PDB Search Committee.

PLANT BIOLOGY & FUNCTIONAL GENOMICS. We seek a biologist using functional genomics to study plant biology. Special interest will be given to applicants focusing on the structure-function of proteins. The successful candidate is expected to develop an externally-funded research program, teach at the undergraduate and graduate level, and participate in the newly formed Institute for Genomic Sciences and Policy. This is a tenure-track appointment as Assistant Professor. Send applications for this position to the FG Search Committee. For additional information see <http://www.dcmb.duke.edu/htm>.

Applicants for all four molecular biology positions should provide 1) CV, 2) description of research plans, 3) statement of teaching interests, 4) reprints of recent papers, and 5) must arrange for three letters of recommendation to be sent to: **DCMB Group, B343, Levine Science Research Center, Box 91000, Duke University, Durham NC 27708. Tel. 919-613-8155.** Applications received by November 15, 1999 will be guaranteed full consideration. *Duke University is an Affirmative Action/Equal Opportunity Employer.*

JOHNS HOPKINS UNIVERSITY

IMMUNODEFICIENCY OF ATAXIA-TELANGIECTASIA

One NIH funded postdoctoral position is immediately available for studies on the immunologic abnormalities of ataxia-telangiectasia. The fellow will join our multi-disciplinary A-T Clinical Center that evaluates 40-50 new ataxia-telangiectasia patients each year. Research projects may include measurements of cellular responses to oxidative stress, assessment of intracellular signaling and vesicle transport, and in vitro gene therapy, as well as classical measurements of lymphocyte function.

Candidates should have a Ph.D. with background in immunology, cell biology and/or biochemistry. Direct correspondence to Howard Lederman, M.D., Ph.D. via mail (Division of Pediatric Immunology, Johns Hopkins Hospital, Baltimore, MD 21287-3923) or e-mail (hlederma@jhmi.edu).



MOLECULAR GENETICIST/BIOLOGIST

Principal Investigator /lead scientist /energetic self-starter needed to assist in guiding the development of the Saccomanno Research Institute which has a solid tradition in the early detection of lung cancer. The current project is federally funded to identify familial factors that contribute to lung cancer susceptibility and requires experience in molecular biology, gene cloning and/or cancer genetics. Future projects are flexible depending upon successful candidate's interests.

SRI is a small, well-equipped research facility with a large study population base and an expansive tumor tissue archive. It presents an excellent opportunity to perform translational or molecular epidemiological studies. SRI has a record of obtaining grant funding and is connected with a regional non-profit hospital which provides significant financial support. A concurrent research/teaching appointment with Mesa State College is available.

Grand Junction has a mild climate and is located in western Colorado about 2 hours from Aspen, Vail and other major resorts. Outdoor activities include skiing, mountain climbing, fishing and biking.

Requirements include a Ph.D. and/or M.D.; postdoctoral experience; significant peer-reviewed publications in molecular biology, cancer genetics or other cancer research topics; excellent written and oral communication skills. The job also requires successful interaction with a diverse constituency including funding agencies, community leaders and collaborators.

Application must include curriculum vitae, description of research interests and future plans, 3 representative reprints and names and phone numbers of 3 references. Send applications to **Mary L. Crumbaker, Administrative Director, Saccomanno Research Institute, St. Mary's Hospital and Medical Center, P.O. Box 1628, 2635 N. 7th Street, Grand Junction, Colorado 81502.** Email: mcrumbaker@stmarygj.com. Fax: 970-241-4366.

St. Mary's Hospital and Medical Center is an Equal Opportunity Employer.

POSITIONS OPEN

EMINENT SCHOLAR IN MOLECULAR GENETICS THE OHIO STATE UNIVERSITY

The Department of Molecular Genetics at The Ohio State University is searching for a faculty member at the **FULL PROFESSOR** level to fill the position of Ohio Eminent Scholar in Molecular Genetics, an endowed chair that is funded in part by the State of Ohio. We are interested in applicants with exceptional qualifications who are using molecular genetic approaches to study important topics in molecular, cell, or developmental biology of eukaryotic organisms. A highly competitive recruiting package is available, which includes an attractive salary, generous laboratory space in a new building, and substantial funds for equipment, personnel, and operating expenses.

The Ohio State University is undergoing a major expansion in the molecular life sciences. The Department of Molecular Genetics is a young, vigorous, and highly interactive department that is playing a central role in this expansion. The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable, metropolitan area of about 1.5 million people. Columbus has been ranked as one of the country's best places to live and work. Information about our department and university can be obtained by contacting our **website**: <http://www.biosci.ohio-state.edu/~molgen>.

Applications should include a detailed curriculum vitae, a description of research experience and future plans, and the names and addresses of at least three references. Applications will be accepted until a suitable candidate is hired. Review of applications will begin during January 2000. Application materials should be sent to: **Eminent Scholar Search Committee, Department of Molecular Genetics, The Ohio State University, 484 West 12th Avenue, Columbus, OH 43210.**

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

BIOLOGICAL ANTHROPOLOGIST

Duke University's Department of Biological Anthropologist and Anatomy, a university-wide department, invites applications for a non-tenure-track position at the **ASSISTANT RESEARCH PROFESSOR** level to begin September 1, 2000. Candidates must have demonstrated research interests in one or more of the following areas: primate or mammalian evolution and/or paleontology, primate or mammalian functional morphology, and human evolution. Experience in teaching human gross anatomy and paleoanthropology is desirable. Applications received by January 1, 2000, will be guaranteed consideration. Send curriculum vitae and letters from three references to: **Chair, Search Committee, Department of Biological Anthropology and Anatomy, Duke University Medical Center, Box 3170, Durham, NC 27710.**

Duke University is an Equal Opportunity/Affirmative Action Employer.

Evolutionary Biology. The Department of Ecology and Evolutionary Biology at Rice University (**website**: <http://www.ruf.rice.edu/~ecb/>) is seeking to fill a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek a highly qualified individual in the field of evolutionary biology, broadly construed to include, for example, molecular, phylogenetic or behavioral approaches to the study of adaptation and evolution. Rice is a private research university with a strong commitment to the highest standards of education at the graduate and undergraduate levels. Applicants should submit a curriculum vitae, statements of research and teaching interests, and request four letters of recommendation. All materials should be sent to: **Search Committee, Department of Ecology and Evolutionary Biology MS-170, Rice University, P.O. Box 1892, Houston TX 77251-1892** by November 30, 1999. *Rice University is an Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.*

POSITIONS OPEN

TWO TENURE-TRACK POSITIONS NEUROBIOLOGY AQUATIC ECOLOGY/ICHTHYOLOGY

The Department of Biological Sciences at California State University, Chico invites applications for two tenure-track **ASSISTANT PROFESSOR** positions beginning fall 2000. **Neurobiology:** Candidates must have a Ph.D., a specialization in neurobiology, experience with cellular and molecular techniques, a demonstrated knowledge of human physiology, a demonstrated ability or potential to establish an externally funded research program that will involve undergraduate and graduate students, teaching experience at the undergraduate level, and a strong interest in teaching excellence. Postdoctoral experience is preferred. Teaching responsibilities include a lower-division, non-major, human physiology course and the development and teaching of an upper-division and/or graduate course in area of specialization. **Aquatic ecology/ichthyology:** Candidates must have a Ph.D., a specialization in aquatic ecology, a demonstrated knowledge of ichthyology, a demonstrated ability or potential to develop an externally funded field-oriented research program, an ability and willingness to develop and maintain liaisons with regional natural resource agencies, teaching experience at the undergraduate level, and a strong interest in teaching excellence. Postdoctoral experience is preferred. Teaching responsibilities include upper-division courses in aquatic ecology and ichthyology, lower-division introductory biology courses, and a graduate course in area of specialization. Normal faculty duties for both positions include undergraduate advising as well as 12 to 16 classroom hours of teaching per week. For detailed position announcements check our **website**: www.csuchico.edu/biol/. Applicants should submit a letter of application, curriculum vitae, a statement of teaching philosophy, representative reprints, complete academic transcripts, and three letters of reference to: **Dr. Michael Abruzzo, Chair, Department of Biological Sciences, California State University, Chico, CA 95929-0515; Attn: Aquatic Ecology or Neurobiology Search Committee.** Closing date is December 17, 1999, for both positions. *As a University that educates students of various ethnic and cultural backgrounds, we value a diverse faculty and staff and seek to create as diverse a pool of candidates as possible. California State University, Chico is an Equal Employment Opportunity/Affirmative Action/ADA Employer. California State University, Chico employs only individuals authorized to work in the United States.*

ASSISTANT PROFESSOR CELL AND MOLECULAR BIOLOGY

The Whitney Laboratory, a research center of the University of Florida, invites applications for a tenure-track **ASSISTANT PROFESSOR** position. This will be a 12-month, state-funded, full-time research position. The successful applicant will be expected to develop a high quality, extramurally funded research program that uses marine organisms to understand fundamental biological principals. We are seeking an individual whose research will complement and extend existing programs.

The Whitney Laboratory is a center for marine biomedical research and biotechnology and provides an exceptional, highly interactive research environment with recognized strengths in cell and molecular biology. Areas of current research include sensory biology, developmental biology, neurobiology, and vector biology/parasitology.

Applicants should submit a complete curriculum vitae together with statement of research interests and three letters of recommendation to: **Dr. Peter Anderson, Director, Whitney Laboratory, 9505 Ocean Shore Boulevard, St. Augustine, FL 32086.** Deadline for application: December 31, 1999.

Detailed information about the Whitney Laboratory is available at **website**: <http://www.whitney.ufl.edu>.

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

POSITIONS OPEN

AQUATIC ECOLOGIST FIELD STATION DIRECTOR Search Reopened for One or Two Positions Illinois Natural History Survey

The Center for Aquatic Ecology (CAE) has reopened its search and invites applications for one or two career-track positions at the **ASSISTANT** or **ASSOCIATE** level. Each successful applicant will conduct research relating to the ecology of large river systems and direct the personnel (current staff of 10 to 12), research projects (including the Long Term Resource Monitoring Program with a \$400,000 annual budget), and facilities at one of two field stations, the Illinois River Research Station, Havana, Illinois or the Mississippi River Field Station at Brighton, Illinois. Candidates must hold a Ph.D. by date of appointment in an appropriate discipline, have an outstanding record of independent research, and expect to maintain a strong, externally funded research program that complements existing strengths in CAE. Experience working on large systems (freshwater or marine) is highly desirable. The 10 CAE senior staff scientists conduct self-directed research in a broad range of disciplines, taxa, and systems. The Natural History Survey (INHS) is located on the Urbana-Champaign campus of the University of Illinois. CAE scientists have full access to campus facilities and resources and may hold affiliate appointments in university departments, teach, and supervise graduate students. Please send a cover letter, curriculum vitae, a statement of research interests, reprints of up to five representative publications, and three letters of reference to: **Susan Key, CAE Search-503, Illinois Natural History Survey, 607 East Peabody, Champaign, IL 61820. Telephone: 217-244-7790; FAX: 217-333-4949.** For full consideration, applications should be received by December 13, 1999. Position start date is negotiable. Technical questions regarding this position should be directed to **Dr. David P. Philipp, Telephone: 217-244-5055; E-mail: philipp@uiuc.edu.** *The Illinois Natural History Survey is an Equal Employment Opportunity/ADA Employer.*

ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR VIROLOGY/ GENE THERAPY VIRAL PATHOGENESIS Department of Microbiology Arizona State University

Assistant/Associate Professor, tenure-track position in molecular virology/gene therapy/viral pathogenesis available in Department of Microbiology, Arizona State University. This position is part of a commitment by Arizona State University to establish a well-recognized program in basic biomedical research. Required: Doctoral degree; two years of relevant postdoctoral experience; publication record and teaching experience appropriate to rank; evidence of having developed (Associate Professor) or potential to develop (Assistant Professor) a vigorous, independent, extramurally funded research program. Desired: research in viral gene therapy or viral pathogenesis, using a molecular genetic approach; demonstrated ability to interact with the Molecular and Cellular Biology Program, with existing virology and immunology programs at Arizona State University, and with local biomedical research institutes; NIH funding (Associate Professor) or potential for NIH funding (Assistant Professor). Responsibilities include participation in teaching at graduate and undergraduate levels and direction of graduate dissertation research. Competitive salary and start-up package. Send curriculum vitae, representative reprints, statement of research and teaching interests, and names and addresses of three referees to: **Virology Search Committee, Department of Microbiology, Arizona State University, Tempe, AZ 85287-2701. Telephone: 480-965-1457; FAX: 480-965-0098; website: <http://www.lsvl.asu.edu/microbiology>.** Review of applications will begin December 15, 1999, and continue weekly thereafter until position is filled. *Arizona State is an Equal Opportunity/Affirmative Action Employer.*

Cell & Molecular Technologies, Inc.

CMT is a rapidly growing biotechnology service company that performs contract research for the pharmaceutical and biotechnology industry. We are seeking highly motivated and technologically innovative research scientists.

Senior Molecular Biologists (ref. no. 0018): Ph.D. or equivalent in molecular biology, biochemistry or a related field with at least 3 yrs. postdoctoral experience. Extensive experience in the construction of cDNA and genomic libraries required, including the generation of size selected, normalized, and subtracted cDNA libraries. Proficiency in state-of-the-art molecular biology techniques, including two hybrid analysis, PCR methods, RNA isolation, expression cloning, and gene expression analyses. Responsibilities include construction of cDNA and genomic libraries from a variety of species, tissues and cell sources, as well as the isolation and expression of a wide range of eukaryotic and prokaryotic genes.

Associate Molecular Biologists (ref. no. 0019): B.S., M.S. or equivalent in molecular biology, biochemistry or a related field with at least 3 yrs. of experience. Proficiency in state-of-the-art molecular biology techniques, including plasmid and phage library screening, PCR methods, RNA manipulation, genomic DNA and cDNA cloning, expression cloning, and gene expression analyses required. Responsibilities include cloning, expressing and characterizing a wide range of eukaryotic and prokaryotic genes.

Senior Cell Culture Biologist / Bioprocessing Specialist (ref. no. 0020): Ph.D. or equivalent in biochemical engineering, cell biology, biochemistry, or a related field with at least 2 yrs. postdoctoral experience in eukaryotic/prokaryotic cell culture. Strong background in the production of native and recombinant proteins in large scale cell culture systems (30-200 liters), including bioreactors, cell factories, roller bottles, spinner cultures or fermentation vessels required. Expertise in basic biochemical techniques, including electrophoresis, sub-cellular fractionation, and immuno-assay methods important. Responsibilities include the culture and characterization of bacterial, fungal, insect and mammalian cells.

Associate Cell Culture Biologist (ref. no. 0021): Full and part time positions available. B.S. or M.S. in biologically related field. Proficiency in cell culture techniques required. Responsibilities include routine cell culture, use of automated cell plating equipment and daily delivery of cells to area clients. Driver's license required.

CMT offers attractive salaries and benefits. We are located 90 miles west of NYC in Warren County New Jersey. To apply please send complete CV, including list of publications, and the names and addresses of three references to:

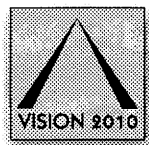
Dr. Michael J. Tocci
Cell & Molecular Technologies, Inc.
580 Marshall St.
Phillipsburg, NJ 08865
Fax: 908-859-6437
e-mail: mtocci@cmt-inc.net

Visit our web site for further information:
www.cmt-inc.net

CMTI is an Equal Opportunity Employer.

SCIENCE PROFESSIONALS

THE BAYER FACTS:



- In the highly competitive global pharmaceutical marketplace, there are many "Bayer Facts" that distinguish us as a leader. To name a few, we are part of Bayer Corporation, a \$32 billion international diversified organization and one of the most broadly-based healthcare companies in the U.S. Our Biological Products Division is expanding and has relocated its headquarters to the Raleigh area. Due to our expansion, we have added several exciting opportunities which are now available:

SR. STAFF SCIENTIST

- Candidate will be responsible for the oversight of the Analytical Research Section which is responsible for the implementation of new analytical technologies as well as defining the analytical strategies for our biological products for the next millennium. We are seeking a Ph.D. degree in Bioanalytical Sciences with strategic management experience in the pharmaceutical field. In addition, candidate must have outstanding communication skills and feel comfortable with setting milestones above and beyond the ordinary. As the resident expert in Analytical Research, it will be this person's responsibility to provide senior management with a clear scientific basis on which to evaluate new products, process improvements, or extramural activities. RESPONSE CODE: CI-0335

STAFF SCIENTIST/ SR. STAFF SCIENTIST

Bayer:

**A premier
healthcare
company for
the 21st century.**

- For the oversight of the Protein Characterization Group, we are looking for a Ph.D. with post-Doctoral experience in Bioanalytical Science with emphasis on structural protein analysis with extensive industrial experience in personnel and project management in a pharmaceutical setting. Responsibilities include the implementation of technologies as well as the coordination of the protein characterization activities of our Biological Products. The incumbent with excellent communication skills must be capable for setting priorities, meeting milestones and feel comfortable in working in interdisciplinary teams. RESPONSE CODE: CI-45

PRINCIPAL ASSOCIATE RESEARCH SCIENTIST/RESEARCH SCIENTIST

- You will provide analytical support for the development of new Biological Products. Responsibilities include development and validation of analytical methods for protein characterization. A Ph.D. degree in chemistry or biochemistry is required. In depth knowledge of protein chemistry and protein analysis is expected. The position requires a broad background and method development experience in various analytical techniques including HPLC, GC, CE, IC, enzymatic assays and immunochemistry. Excellent oral and written communication skills are required. RESPONSE CODE CI-256

PRINCIPAL ASSOCIATE RESEARCH SCIENTIST/RESEARCH SCIENTIST

- Structural characterization of molecules associated with troubleshooting of process related problems are the main responsibility for this position. The incumbent must feel comfortable in utilizing spectroscopic technologies and maintaining close interactions with other internal and external analytical resources in order to solve a problem in the fastest and most efficient way. A Ph.D. or equivalent plus post-Doctoral experience in Analytical Chemistry with emphasis on structural characterization (IR, NMR-spectroscopy, GC-MS) is required. Additional experience in an industrial preferentially pharmaceutical setting (or equivalent academic experience) would be a plus. This position requires creative thinking, the ability for immediate analytical action and good presentation and communication skills. RESPONSE CODE: CI-349
- Bayer offers an excellent compensation package commensurate with qualifications. Please send your resume (indicating position title and response code on envelope) to: **PN/Human Resources, Bayer Corporation, 1200 New Hope Road, Raleigh, NC 27610.** No agencies or phone calls please. For more information on Bayer, search: <http://www.bayerpharmana.com>



**Pharmaceutical
Division**

Biological Products

Changing the world with great care.

POSITIONS OPEN

CELL BIOLOGIST

The Department of Biology at the University of South Florida (USF) seeks a nine-month **ASSOCIATE PROFESSOR** to begin in August 2000, contingent upon funding. Research interests of applicants should be in the broad area of cell function including but not limited to cell and developmental biology, cell physiology, neuroscience, and reproductive biology. Candidates must have a Ph.D. in one of the biological sciences and a strong record of externally funded research and publications. The successful candidate will be expected to continue an active, externally funded research program, and teach undergraduate and graduate courses in their area of specialization. USF is a large (more than 34,000 students) metropolitan university, designated by the Florida Board of Regents as a Research 1 University in the State University System. The Department of Biology has 31 faculty, more than 1,300 undergraduate majors, and 96 Doctoral and Master's students. USF offers opportunities for collaboration with investigators at the USF Health Sciences Center, Institute for Biomolecular Science, The Moffitt Cancer Center (a NCI-designated Cancer Center), and the Department of Marine Science. Send a curriculum vitae, reprints of three published papers, statement of research and teaching interests, and three letters of reference to: **Cell Biology Search Committee, Department of Biology, University of South Florida, 4202 East Fowler Avenue, Tampa, FL 33620-5150**. Applications must be complete by 20 December 1999. Further information on the department and this position can be found at **web-site: <http://www.cas.usf.edu/biology>**. Contact by **e-mail: lawr@chuma.cas.usf.edu**. *The University of South Florida is an Equal Opportunity/Affirmative Action/Equal Access Institution. For disability accommodations, please call Telephone: 813-974-3250. According to Florida law, applications and meetings regarding them are open to the public.*

DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY YALE UNIVERSITY

The Department of Molecular Biophysics and Biochemistry seeks applicants for a position at the **ASSISTANT PROFESSOR** level in the area of molecular biophysics. Our department, which is located in both the Faculty of Arts and Sciences and the School of Medicine of the university, spans a broad range of areas including biochemistry, biophysical chemistry, structural biology, molecular biology, and molecular genetics. Applications should include a curriculum vitae, a statement of research interests, three letters of reference, and reprints or preprints. Completed applications should be sent to: **Dr. Paul B. Sigler, Chair, Faculty Search Committee, Department of Molecular Biophysics and Biochemistry, Yale University, 260 Whitney Avenue, P.O. Box 208114, New Haven, CT 06520-8114. Telephone: 203-432-5593**.

Application deadline: December 1, 1999.

Yale is an Affirmative Action/Equal Opportunity Employer.

University of Wisconsin-Madison. Biomolecular chemistry. Tenure-track **ASSISTANT PROFESSOR**. This biochemical research and teaching position is available July 1, 2000, for someone with two-plus years of postdoctoral training. Candidates will be expected to establish a vigorous independent research program. Teaching will be at graduate, medical, and undergraduate levels. For more information, go to **website: www.medsch.wisc.edu/bmolchem/assistant/prof.html**. Send a curriculum vitae, bibliography, and a one- to two-page research plan, and arrange for three reference letters to be sent by November 5, 1999, to: **Dr. James E. Dahlberg, Search Chair, Biomolecular Chemistry, University of Wisconsin Medical School, 587 MSC, 1300 University Avenue, Madison, WI 53706-1532. Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. Unless confidentiality is requested in writing, information regarding the names of applicants must be released upon request. Finalists cannot be guaranteed confidentiality.**

POSITIONS OPEN

TWO POSITIONS IN PHYSIOLOGICAL SCIENCE UCLA

The Department of Physiological Science invites applications for two tenure-track faculty positions at the level of **ASSISTANT PROFESSOR** (or under exceptional circumstances at a higher level). We are seeking individuals with established independent records of creative and significant research in any area of physiology, but with particular interest in the areas of sensory physiology, neuroendocrine regulation, or nonneural integrative physiology. Approaches that integrate multiple levels of molecular, cellular, systemic, and organismic function are preferred. The successful candidates will be expected to participate in undergraduate and graduate teaching and to establish a vigorous, externally funded research program. Minimum qualifications include a Ph.D. degree in a relevant discipline, postdoctoral experience, and the demonstrated ability to perform excellent research. Applicants should submit a curriculum vitae with a description of research plans, reprints or preprints of key publications, and have three letters of recommendation sent by November 30, 1999, to: **Search Committee Chair, Department of Physiological Science, College of Letters and Science, University of California, Los Angeles, P.O. Box 951606, Los Angeles, CA 90095-1606**.

ASSISTANT PROFESSOR

The Department of Biological Sciences, Rochester Institute of Technology, seeks an Animal Physiologist to fill a full-time, tenure-track position. A Ph.D. is required; demonstrated teaching and postdoctoral experience is desirable. The successful candidate will be expected to teach physiology and anatomy, to participate in the first-year general physiology course, and to develop courses in area of interest. Research in specialty area is expected.

We are a growing department with 12 faculty and 400 majors in two undergraduate degree programs (biology and biotechnology).

The position is available September 1, 2000; closing date for applications is January 31, 2000.

Submit curriculum vitae and arrange to have three letters of reference sent to: **Chair, Search Committee, Department of Biological Sciences, Rochester Institute of Technology, 85 Lomb Memorial Drive, Rochester, NY 14623-5603**.

Rochester Institute of Technology is an Equal Opportunity/Affirmative Action Employer, and especially encourages applications from persons able to contribute in a meaningful way to the Institute's commitment to diversity and pluralism.

ASSISTANT/ASSOCIATE PROFESSOR MARINE ECOLOGY

The University of Guam invites applications for a tenure-track, 9-month position in marine ecology with initial contract for 3 years. Position available as early as January 2000. Preference will be given to Investigators with an established research record in community ecology of coral reefs. Applicants must have a Doctoral degree in a relevant field, postdoctoral experience, a strong record of research accomplishments, ability to teach an advanced course in biometrics, and a willingness to participate in graduate and undergraduate teaching and thesis supervision at the M.S. level. Applicants should send a completed application form, curriculum vitae, statement of research interests and plans, names and addresses of three references, copies of selected publications, and copies of undergraduate and graduate transcripts to: **Marine Ecology Search Committee, Human Resources Office, University of Guam, UOG Station, Mangilao, Guam 96923**. Review begins November 15, 1999. *An Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ENVIRONMENTAL STUDIES DIRECTOR

Bowdoin College invites applications for the position of Director of Environmental Studies at the **ASSOCIATE** or **FULL PROFESSOR** rank, beginning in fall 2000. The successful candidate will hold a Ph.D. in an academic discipline, have a distinguished record of scholarship and teaching that addresses issues of past or present national and/or international environmental policy, and have demonstrated skills in interdisciplinary program building and leadership. This will be a joint appointment in the Environmental Studies Program and an appropriate department.

The normal teaching responsibility at Bowdoin is two courses per semester (with adjustments if labs are involved). At least half of the teaching will be in the area of environmental studies with special emphasis on environmental policy. The remaining teaching will be in the department in which the appointment is made.

Bowdoin College is a selective liberal arts college on the Maine coast. Its 29-year-old Environmental Studies Program is being strengthened. It consists of a broadly interdisciplinary coordinate major with 40 to 50 students in each class and faculty offering courses from all three of the divisions of the curriculum. Facilities include the Bowdoin Scientific Station on Kent Island, NB and the 118-acre Coastal Studies Center on nearby Orrs Island.

Please send a letter of application, curriculum vitae, and at least three letters of reference to: **A. Myrick Freeman III, Director of Environmental Studies, 6700 College Station, Bowdoin College, Brunswick, ME 04011-8476**. Review of applications begins on November 15, 1999. For further information about the program and the college, visit our **website: www.bowdoin.edu**.

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and members of minority groups are urged to apply and invited to identify themselves as such.

PLANT BIOLOGIST/MICROBIOLOGIST

Carroll College, a Catholic, coeducational liberal arts college, seeks a tenure-track **ASSISTANT PROFESSOR** to teach botany, microbiology to biology majors and to nursing students, and part of a team-taught introductory biology course for majors beginning fall 2000. A Ph.D. by August 2000 is required. Salary commensurate with experience. Applicants should be committed to undergraduate teaching and the mission of the college and should have a strong interest in developing an undergraduate research program. Send curriculum vitae, transcripts, three letters of recommendation, and statements explaining teaching philosophy and understanding of the college mission to: **Biology Search Committee, Office of Human Resources, Carroll College, 1601 North Benton Avenue, Helena, MT 59625** by December 22, 1999. The Carroll College mission statement as well as information about the college and its biology program are available on our **website: <http://www.carroll.edu>**. *Equal Opportunity Employer.*

COMPARATIVE ANIMAL PHYSIOLOGY

The Department of Biology, University of Miami, invites applications for a tenure-track position in comparative animal physiology at the level of **ASSISTANT PROFESSOR**. We seek a colleague addressing fundamental questions in animal physiology consistent with departmental strengths in behavior, ecology, evolutionary, and tropical biology. The successful applicant is expected to develop an externally funded research program and participate in teaching at graduate and undergraduate levels. Ph.D. required. Send curriculum vitae, appropriate reprints, summary of research and teaching interests, and have three letters of reference sent to: **Physiology Search, Department of Biology, P.O. Box 249118, University of Miami, Coral Gables, FL 33124-0421**. Applications will be reviewed beginning 15 November 1999. *The University of Miami is an Equal Opportunity/Affirmative Action Employer and smoke/drug-free workplace. Women and minorities are encouraged to apply.*

**TENURE-TRACK FACULTY
POSITIONS
BIOLOGICAL OCEANOGRAPHY
AND MARINE ECOLOGY
UNIVERSITY OF NORTH CAROLINA
AT CHAPEL HILL**

The Marine Sciences Department invites applications for two positions at the Assistant Professor level. Pending approval of additional resources, an exceptional candidate at a more senior level will be considered. We seek a biological oceanographer and a marine ecologist to complement existing strengths in physical oceanography, biogeochemistry, and modeling, and to contribute to campus-wide programs in bioinformatics and/or ecology. We particularly seek individuals with broad interests and who use an integrative, multidisciplinary approach to address significant problems relating to the evolution, ecology, or biology of marine organisms. The successful candidate for one of these positions will have expertise in instructional technology. Appointees are expected to contribute to the Marine Environmental Biology Initiative of the Department, the Institute of Marine Sciences, and the Carolina Environmental Program. For more information, visit <http://www.marine.unc.edu>. Send letters of research and teaching interests, CV, and names of five professional references to: Marine Environmental Biology Search, Department of Marine Sciences, CB# 3300, University of North Carolina, Chapel Hill, NC 27599-3300. Applications received before 15 December 1999 will receive full consideration; we will continue the search until the positions are filled. One position can be filled as early as July 2000. *The University of North Carolina is an equal opportunity employer.*

**SEARCH EXTENDED
EXECUTIVE DIRECTOR
INLAND NORTHWEST RESEARCH ALLIANCE (INRA)**

The Executive Director reports to the Chair of the Board of Trustees of INRA and is responsible for the overall direction of INRA programs at the Idaho National Engineering and Environmental Laboratory (INEEL) as well as future initiatives undertaken by INRA. INEEL is managed by Bechtel B&W Idaho, LLC (BBWI) and is located in Idaho Falls, Idaho. INRA is a non-profit organization formed by the Presidents of seven Northwest universities for the purpose of supporting research programs at the INEEL and elsewhere in the Inland Northwest.

Minimum qualifications

- Master's degree in a scientific discipline; qualification for appointment as an adjunct faculty member at an INRA university; eligible for DOE access authorization. Strong scientific credentials.

Desired qualifications

- PhD in a scientific discipline.
- Record of successful participation and leadership in university research programs.
- Understanding of technology transfer and intellectual property issues.
- Administrative/management experience in large science program and understanding of the development of university research programs.
- Experience in supervision of staff at varying levels.
- Experience with State and Federal agencies, particularly Department of Energy programs.
- Experience with planning and leadership of university consortia programs.
- Demonstrated commitment to affirmative action and equal opportunity.

To apply: Send a letter of application outlining relevant experience and a current resume along with the names, addresses, telephone numbers and email addresses of no fewer than three references to:

**Dr. Brian Pitcher, Chair
Search Committee for INRA Executive Director
INRA
1776 Science Center Drive
Idaho Falls, ID 83402-1575**

Review of applications will begin on November 1.

INEEL, Bechtel B&W Idaho LLC, and the INRA are equal opportunity employers.

**ES/BIOLOGY POSITION IN ECOLOGY
Tenure-Track Position
Bowdoin College**

Bowdoin College invites applications for a tenure-track position in community or ecosystem ecology at the **Assistant Professor** level. The position will be in the Department of Biology, with a joint appointment in the Environmental Studies Program. The successful candidate should hold a Ph.D. degree with demonstrated interest in field-based research on multi-species interactions or on interactions between biological communities and the environment, with applications to environmental problems. Postdoctoral experience is strongly preferred.

The normal teaching responsibility at Bowdoin is two courses per semester (with reductions if labs are involved). Possible courses include environmental science, participation in a team taught introductory environmental studies course, and mid-level and advanced courses in the candidate's field of specialization (e.g., pattern and process in terrestrial and/or marine ecosystems, community structure and function, environmental applications of GIS).

Bowdoin College is a selective liberal arts college on the Maine coast. Facilities include the Bowdoin Scientific Station on Kent Island, New Brunswick, and the Coastal Studies Center on nearby Orr's Island, where collaborative research is encouraged involving undergraduates and environmental researchers from a variety of disciplines.

Please send a curriculum vitae, statement of teaching and research interests, and three letters of recommendation addressed to **Professors Nathaniel Wheelwright and Amy Johnson, Dept. Biology, 6500 College Station, Bowdoin College, Brunswick, ME 04011**. Review of applications will begin on November 20, 1999. For further information, consult our **website, www.bowdoin.edu**.

Bowdoin College is committed to Equal Opportunity through Affirmative Action. Women and minorities are encouraged to apply.

**DEAN
College of Science and Mathematics
North Dakota State University**

North Dakota State University invites nominations and applications for the position of Dean of the College of Science and Mathematics. The Dean is the chief academic and administrative leader for the college and reports to the Vice President for Academic Affairs.

The College of Science and Mathematics consists of the following departments: Biochemistry, Botany/Biology, Chemistry, Computer Science, Geosciences, Mathematics, Physics, Polymers and Coatings, Psychology, Statistics, and Zoology. The College offers 15 undergraduate degree programs, 11 master's degree programs, and 10 Ph.D. programs with an enrollment of 1290 undergraduate students and 256 graduate students. In the College there are 100 full-time faculty, 12 part-time faculty, and 30 support staff.

North Dakota State is the state's Morrill Act land-grant institution. The university is located on the eastern border of the state in Fargo, North Dakota's largest city. For more information, contact <http://www.ndsu.nodak.edu/scimath/>.

Application Procedures: Nominations and applications will be accepted until the position is filled. Review of applications will begin around December 1, 1999. Complete applications, including a letter of application, curriculum vitae, and the names, addresses, phone/FAX and e-mail addresses of five potential references should be sent to: **Dr. Virginia Clark, Chair, Science and Mathematics Dean Search Committee, P.O. Box 5057, North Dakota State University, Fargo, ND 58105-5057; Phone - 701-231-8211; FAX - 701-231-7174; e-mail: vclark@badlands.nodak.edu**.

NDSU is an equal opportunity institution.

POSITIONS OPEN

ENVIRONMENTAL STUDIES PROGRAM

Gettysburg College invites applications for two tenure-track **ASSISTANT PROFESSOR** positions in environmental studies to begin fall 2000: Geographer with strong GIS background to teach introductory geography and upper-level GIS-based courses in environmental aspects of human and physical geography; Social Scientist with focus in resource management to teach introductory and upper-level courses that integrate environmental science and policy. Candidates must hold Ph.D. and be committed to interdisciplinary teaching in the liberal arts tradition and to research involving students. The growing Environmental Studies Program benefits from proximity to policy-making agencies and a variety of terrestrial, freshwater, and marine habitats. We will move into a new science complex in 2001. Successful candidates will have a unique opportunity to assist in designing their teaching and research space, including a GIS laboratory. Gettysburg College is a highly selective, liberal arts college located within 90 minutes of the Baltimore/Washington, D.C. area. Established in 1832, the college has a rich history and is situated on a 220-acre campus with an enrollment of 2,300 students. Send curriculum vitae and statement of teaching and research goals and have three letters of reference (at least one of which can speak to the candidate's teaching effectiveness) sent to: **Dr. John A. Commito, Coordinator, Environmental Studies Program, Gettysburg College, Gettysburg, PA 17325 USA.** Review of applications will begin December 1, 1999, and continue until position is filled. The college seeks to promote diversity in its community through its Affirmative Action/Equal Opportunity programs. Included in an attractive benefits package is a Parmer Assistance Program.

NEUROSCIENTIST/NEUROLOGIST GLADSTONE INSTITUTE OF NEUROLOGICAL DISEASE University of California, San Francisco

The Gladstone Institute of Neurological Disease (website: <http://gladstone.ucsf.edu/gind/>) and the Department of Neurology at University of California, San Francisco invite applications for a faculty position at the level of **ASSISTANT** or **ASSOCIATE PROFESSOR**. We seek an individual with a M.D. and/or Ph.D., a commitment to research in disease-related neurosciences, and ability to develop a vigorous independent research program in a highly interactive academic environment. Of particular interest are candidates with expertise in Alzheimer's disease, neurodegeneration, memory, neurophysiology, cell biology, or experimental therapeutics. Board certification in neurology would be considered an additional strength. Excellent salary support and research facilities are available. Please send curriculum vitae, descriptions of experience and interests, and three names of references to: **Lennart Mucke, M.D., Gladstone Institute of Neurological Disease, P.O. Box 419100, San Francisco, CA 94141-9100.**

The J. David Gladstone Institutes and University of California, San Francisco are Affirmative Action/Equal Opportunity Employers. UCSF undertakes affirmative action to assure equal employment opportunity for minorities and women, for persons with disability, and for Vietnam-era veterans and special disabled veterans.

Columbia University seeks a **STAFF ASSOCIATE** to support the Executive Vice Provost in projects relating to science and technology policy, the economics of university research, and university patenting and licensing. Qualifications: Master's degree in relevant field. One to two years of experience in science and technology policy, substitutional with academic work if directly related to the science and technology policy field. Must be able to assemble and statistically analyze quantitative data and develop economic models. Proficiency with PowerPoint required. Send curriculum vitae to: **Office of the Executive Vice Provost, Columbia University, 363 Engineering Terrace, MC 2206, New York, NY 10027.** We take Affirmative Action toward Equal Employment Opportunity.

POSITIONS OPEN

FACULTY POSITIONS CELLULAR AND MOLECULAR PHARMACOLOGY

The Department of Cellular and Molecular Pharmacology at Finch University of Health Sciences/The Chicago Medical School is currently recruiting new faculty. Tenure track positions are available at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level, with the possibility of appointment as **PROFESSOR** for an outstanding candidate. The positions require a Doctoral degree and postdoctoral experience. Candidates with research programs using modern cellular and molecular approaches are encouraged to apply, particularly those interested in the area of drug addiction. Applicants for Assistant Professor are expected to develop an independent, extramurally funded research program. Applicants for Associate Professor or Professor must have an extramurally funded research program. All applicants must have a commitment to excellence in medical and graduate education. Modern laboratory space and competitive salary and start-up packages are available. The Chicago Medical School is located in the picturesque far northern Lake County suburbs of Chicago with access to a rich diversity of cultural, educational, and recreational resources. Applicants should send a curriculum vitae, a letter providing research interests and plans, and the names of at least three references to: **Dr. Francis J. White, Professor and Chair, Department of Cellular and Molecular Pharmacology, Finch University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.** Finch University of Health Sciences/The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR of Soybean Systems Management available in Department of Crop Sciences, University of Illinois at Urbana-Champaign. Soybean production system management position with emphasis on addressing production problems associated with soybean cyst nematode. Nine-month tenured position with opportunity for summer appointment. Responsibilities 75 percent extension, 25 percent research. Ph.D. in crop science or closely related discipline required. Strong record of scholarship, including credentials that meet standards of a tenured faculty member at University of Illinois at Urbana-Champaign. Salary commensurate with training and experience. Starting date February 21, 2000, or when available. For full consideration, applications accepted until December 15, 1999. Submit application package consisting of introductory cover letter, curriculum vitae, and statement of research and extension/outreach experience and goals. Arrange for receipt of full set of certified undergraduate and graduate transcripts, three letters of reference, and the package by: **Professor G. H. Heichel, Head, Department of Crop Sciences, University of Illinois, 1102 South Goodwin Avenue, Urbana, IL 61801.** Telephone: 217-333-9480. For additional information and full announcement contact: **Prof. E. D. Nafziger, Search Committee Chair, Telephone: 217-333-4424; FAX: 217-333-5299; e-mail: ednaf@uiuc.edu.** For more information on department, see website: <http://w3.aces.uiuc.edu/cropsci/>. Cite announcement 09/99C-6783 when applying. Affirmative Action/Equal Opportunity Employer.

Biology (Botany) **ASSISTANT PROFESSOR.** Tenure-track. Ph.D. required. Specialty open but ecology/conservation biology preferred. Duties include teaching introductory biology, plant biology, and courses within area of expertise that complement current departmental offerings. Send transcripts, letter of application, curriculum vitae, and three letters of recommendation to: **Dr. Neil Woffinden, Department of Biology, University of Pittsburgh at Johnstown, Johnstown, PA 15904.** Application deadline: November 1, 1999, or until position is filled. Affirmative Action/Equal Opportunity Employer. Women and minority applications encouraged.

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF BIOLOGICAL SCIENCES STANFORD UNIVERSITY

The Department of Biological Sciences invites applications for the tenure-track position of Assistant Professor in the area of organismal/integrative biology. Examples of desired research areas include integration in sensory or motor systems, autonomic regulatory systems, neuroendocrinology, neuroimmunology, neuroethology, and learning and memory. The successful applicant is expected to conduct a vigorous research program and to contribute to the teaching of graduate and undergraduate students.

Applicants should send curriculum vitae (include e-mail address and FAX number); a concise (two to three pages) description of research experience and interests; and the names, addresses, FAX and telephone numbers, and e-mail addresses of three individuals willing to write letters of recommendation to:

**Chair of Organismal/
Integrative Search Committee
Department of Biological Sciences
Stanford University
Stanford, CA 94305-5020**

To receive full consideration, materials should be received by November 30, 1999. The term of appointment is anticipated to begin on September 1, 2000. Stanford University is an Equal Opportunity/Affirmative Action Employer. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and encourages applications from such candidates.

WATERSHED ECOLOGIST FIELD LAB DIRECTOR

The College of William and Mary seeks a broadly trained Watershed Ecologist for a joint appointment in the Arts and Sciences Department of Biology and the Virginia Institute of Marine Science/School of Marine Science as a tenure-track or tenured **ASSOCIATE PROFESSOR** of biology and marine science (Department of Biology will serve as the tenure home). A major responsibility of the position is to serve as the Director of the college's new W. M. Keck Environmental Field Laboratory at Lake Matoaka, providing a hands-on teaching and research program for graduate and undergraduate students. Expertise in ecological and/or watershed modeling is desirable. Salary and support will be commensurate with the applicant's qualifications.

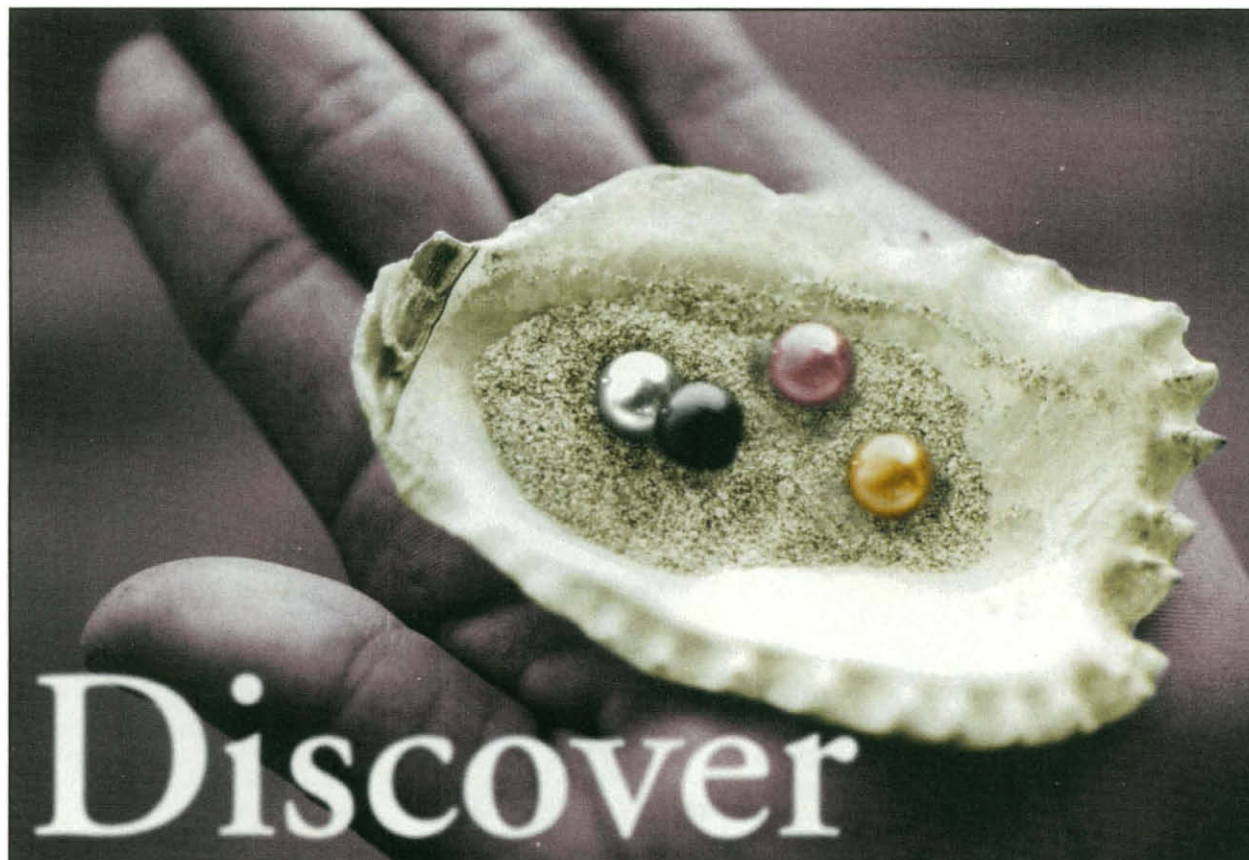
Interested applicants should send a letter of application, curriculum vitae, a statement of research and teaching interests, and the names and addresses of at least three references to: **Search Committee, The Environmental Science and Policy Cluster, The College of William and Mary, P.O. Box 8795, Corner House 201, Williamsburg, VA 23187-8795.** Telephone: 757-221-5075; FAX: 757-221-5076; e-mail: espcen@wm.edu. You may also check our website: <http://www.wm.edu/ESPC>. Application review will begin on December 1, 1999, and will continue until the position is filled. The College of William and Mary is an Equal Employment Opportunity/Affirmative Action Employer.

TWO ASSISTANT PROFESSORSHIPS

The Department of Earth Sciences at the University of California, Santa Cruz. Tenure-track openings effective July 1, 2000, in water and surface processes (closes November 30, 1999) and planetary sciences (closes December 31, 1999). For full details, see our website: <http://www.es.ucsc.edu/> or contact Roxanne Woodling for the full ad by Telephone: 831-459-4478, or e-mail: roxanne@es.ucsc.edu.

ASSISTANT PROFESSOR DEVELOPMENTAL NEUROSCIENCE

Department of Psychology, University of California, Santa Barbara. A tenure-track position effective July 1, 2000. For full details, see our website: <http://www.psych.ucsb.edu/>. Application reviews will begin on December 15, 1999. Affirmative Action/Equal Opportunity Employer.



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We are seeking a candidate with Ph.D in Biochemistry or equivalent, with 2+ years of postdoctoral experience. Expertise is required in enzyme steady state kinetic analysis with a focus on molecular descriptions of small molecule inhibitor mechanisms. The successful candidate will have experience with protein kinases and/or phosphatases in the context of intracellular signalling cascades. Experience with pre-steady state kinetic analysis is a plus. We are seeking a candidate to drive the enzymology effort on multidisciplinary teams, focused in drug discovery research. **Ad Code: 99-2374**

Ph.D Receptor Biochemist

We require a candidate with Ph.D in Biochemistry, Biochemical pharmacology, Cell biology or related field with 2+ years of postdoctoral training. The successful candidate will have experience in receptor biochemistry, ligand-receptor interactions and receptor mediated intracellular signaling. You will be involved in understanding the role of selective signal transduction pathways in cellular responses. Experience with kinases and phosphatases is desired and prior research in inflammation is a plus. **Ad Code: 99-2375**

For both positions, we require candidates who excel in a team environment, possess excellent communication skills and have the ability to coordinate and plan specific objectives to meet aggressive timelines. A track record of innovative research and scientific publications is considered essential to this role.

These positions are located in St. Louis, MO. We offer a competitive salary and benefits package including tuition reimbursement and 401(k). For fastest consideration, please forward your resume, with Ad Code (select from above) on subject line and cover letter, to: **Staffing, 700 Chesterfield Parkway North, Mail Zone BB5B, Chesterfield, MO 63198.** EEO/AA Employer M/F/D/V. Please visit our website at: www.monsanto.com

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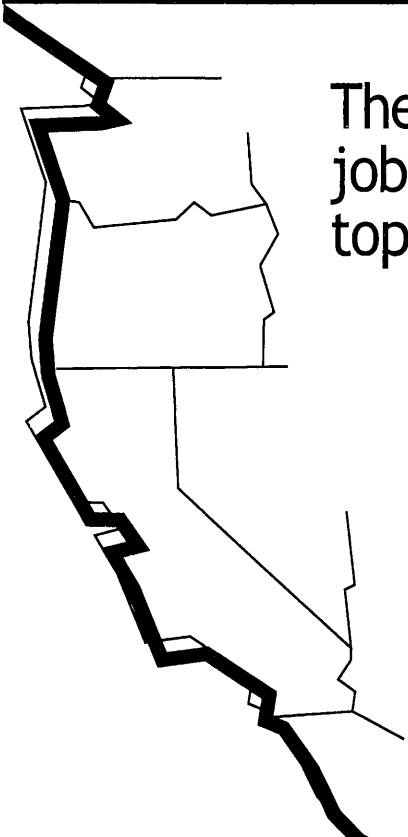
To explore the challenging opportunities available in our progressive, team focused environment, please send/FAX your resume, indicating area of interest, to: Elan Pharmaceuticals, Inc., Attn: Staffing SC110/99, 700 Gateway Blvd., South San Francisco, CA 94080; (650) 553-7138. We are an Equal Opportunity Employer: www.elanpharma.com



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1, 2 *Science* June 1999 BPA Publisher's Statement

3 *Science* Harvey Research Readership Surveys: Aug 1998, 18 July (Japan), 1998 European Cumulative Report as applied to June 1999 AAAS Membership Profile

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Paradigm Genetics, Inc. is a rapidly growing and dynamic agricultural biotech company positioned to become the world-wide leader in agricultural functional genomics. Paradigm is developing a unique and powerful bioinformatics system to aid in the process of analyzing genetic information.

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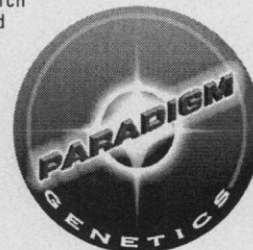
Vice President, Research

This key leadership position will direct, oversee, and manage the research function of Paradigm Genetics, Inc., including general supervision of the Directors of research departments, developing yearly projections for capital equipment costs, budgets, and staffing requirements, and coordinating research activities among research groups to maximize efficiencies. The selected candidate will be an internationally recognized leader in plant science, microbial science, biochemistry, and/or genomic technology, with an emphasis on how these areas of science can be applied to agricultural opportunities. Individual will also be responsible for certain aspects of intellectual property, financial and business development.

The incumbent should possess a Ph.D. in a relevant technical area and have at least ten years' experience managing research activities, of which 5 years are in industrial management; have the ability to communicate effectively to both technical and non-technical audiences; have strong presentation, problem-solving and leadership skills; and have the ability to work under stress. Understanding of bioinformatics, functional genomics, and previous experience in private-sector research and management is preferred. **Job #: SCI/OCT/185**

Successful candidates will be offered an excellent salary and benefits package including an equity ownership position and the opportunity to lead the research of a globally recognized genomics company. For consideration, and submit a resume and cover letter by 11/1/99 to: **Human Resources, Paradigm Genetics, Inc., P.O. Box 14528, RTP, NC 27709; or E-mail: resumes@paragen.com (MS Word or RTF only)** No faxed resumes will be accepted. No phone calls please. Principals only. EOE

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POST-DOCTORAL SCIENTIST

Position in San Diego County

Isis Pharmaceuticals, located in North Coastal San Diego County, is engaged in the discovery and development of novel human therapeutic compounds. The success of our antisense technology has resulted in recent FDA approval of our drug Vitravene™ for AIDS-related blindness. We now have a position available in our Pharmacology Department for an individual to apply antisense technologies to investigate the roles of specific proteins in regulating apoptosis in both normal and disease models. (See J. Biol. Chem (1999) 15, 1715; Biochemistry (1999) 38, 8849; Oncogene (1999) 18, 4495; Nature Biotech (1999) Nov. (in press).

Candidate must have Ph.D. and/or M.D., 0-3 years postdoctoral experience, and experience with current molecular and cellular techniques. Previous experience in apoptosis and cell-signaling is preferred. This is an excellent opportunity for a motivated and independent individual. This position will be available in January 2000.

Isis offers competitive salaries and excellent benefits. Please send resume to: **Isis Pharmaceuticals, Code 344, 2292 Faraday Ave., Carlsbad, CA 92008. Fax: (760) 603-2700. Web site: www.isip.com** Principals only. No phone calls please. EOE.



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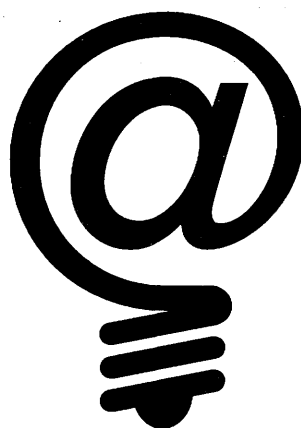
Neuroepidemiologists University of Southern California Keck School of Medicine The Neurogenetic Institute

The Keck School of Medicine of the University of Southern California is recruiting Neuroepidemiologists and Neurogenetic epidemiologists, as part of a major new initiative to establish a world class Neurogenetic Institute. This Institute will be supported by a combined endowment from the W.M. Keck Foundation and matching university funding totaling \$100 million. Successful faculty recruits will be housed in the Neurogenetic Institute headquarters building currently under construction, which will have state of the art laboratory and office facilities. The Institute will be comprised of five research programs in Receptor Biology, Gene Regulation, Cellular and Systems Neurobiology, Developmental Therapeutics and Molecular Epidemiology. The latter program is the target for this recruitment. The Institute will attempt to utilize the rich diversity of the Southern California population to understand risk and mechanisms of disease development for four broad disease areas – sensory systems, degenerative and demyelinating diseases, neuro-oncology, and addictive and neuropsychiatric disorders. Applicants must have an M.D. or Ph.D. degree. In addition to a strong background in genetic epidemiology or a related field, training or laboratory experience in molecular genetics is desired, especially in the area of neurobiology or neurological diseases. Although appointments may be made at any faculty rank, applicants with a proven track record of securing peer-reviewed grant support will be given special consideration. Primary faculty appointments are expected to be in the Department of Preventive Medicine of the Keck School of Medicine with the possibility of secondary appointments in other basic science or clinical departments. Salary will be commensurate with rank and experience. Review of applications will begin January 15, 2000, and continue until the positions are filled. Please send complete curriculum vitae with references and other credentials to:

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The National Institute of Neurological Disorders and Stroke, NIH, is seeking a **Scientific Review Administrator** to select reviewers and conduct review meetings for research and training grants of particular relevance to the mission of NINDS. This is a GS 13/14 civil service position (salary range - \$60,812-\$93,421). Physicians may be eligible for a Physician's Comparability Allowance. Applicants must have U.S. citizenship, and a Ph.D. or M.D. (or equivalent). Applicants who have a broad knowledge of neuroscience and neurological disorders as well as excellent administrative skills are particularly sought.

Applicants should submit by **12/31/99** a letter of application (refer to vacancy # **NINDS-99-154**), a brief description of career interests, a curriculum vitae and a bibliography to: Mr. Luis Arvelo, NIH, NINDS HRB, Building 31, Room 8A23, 31 Center Drive, MSC 2540 Bethesda MD 20892-2540; Tel.: (301)496-6334; e-mail: la45j@nih.gov

Applicants are **strongly encouraged** to obtain specific information concerning the knowledge, skills and abilities needed for the position by contacting Mr. Arvelo at (301)435-6033.

For complete information regarding the vacancy please see Web site <http://www.ninds.nih.gov/hrb/Joblist.htm>

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Who we are

Hoffmann-La Roche, one of the world's leading healthcare companies, has a long-standing reputation for successful and innovative drug development. Our Cardiovascular Research Department in Basel, Switzerland, is increasing its activities in the field of chronic renal failure and seeks to employ a senior researcher with a strong background in the physiology/pharmacology of the kidney and relevant pathologies.

The position

You will lead a team dedicated to the discovery of novel targets and agents for the treatment of renal pathologies. Team spirit, innovation and a multi-disciplinary approach are required for success in this challenging therapeutic area.

Who you are

You must have a PhD in physiology or pharmacology; 3 years' relevant post-doctoral experience, in-depth knowledge of the physiopathology of the kidney and a solid trackrecord in the development of animal and/or in vitro models of chronic renal insufficiency. A significant background in metabolic diseases and diabetes would be an advantage. You must be fluent in English.

Who to contact

If the above profile fits your background and experience and you are interested in this challenging position, please send your application with full supporting documentation to: F. Hoffmann-La Roche Ltd, Mr Werner Aschwanden, PSPB-1, 52/205, P.O. Box, CH-4070 Basel, quoting reference As2280.



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The Science Directorate, NASA/MSFC seeks to fill the above Senior Executive Service (SES) position to provide scientific, engineering, and management leadership in the implementation of multidisciplinary scientific and commercial Microgravity Research. Research areas include biotechnology, combustion science, fluid physics and transport phenomena, fundamental physics and materials science. Research topics involve basic and applied ground-based and space-based investigations. The position requires skills in the management of basic and applied research, enabling technologies, and administration of assigned NASA programs and projects. Preference will be given to applicants who have a general understanding of physical and biological sciences and have experience in leading state-of-the-art research and technology development.

Information on microgravity research can be found at <http://microgravity.msfc.nasa.gov>, <http://mgnews.msfc.nasa.gov>, <http://commercial.nasa.gov>

Inquiries: **Dr. M. Franklin Rose, Director,
Science Directorate,
NASA MSFC, Huntsville, AL 35812;
256-544-7721 or frank.rose@msfc.nasa.gov**

Application: Apply under vacancy announcement MSFC ES-12-99. A full text job announcement and filing instructions are available at <http://hrd.msfc.nasa.gov/JOBS/ses.html> or by calling Sue Payne at 256-544-7530.



Integrated DNA Technologies, Inc. has positions for three Scientists:

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Research Engineer/Scientist, DNA Microarrays: This position will bridge the research department and oligonucleotide synthesis departments. The appointee will take an active role in research, development, and production of DNA microarrays. The appointee must have prior experience with microarray technology; experience with microfluidics is also desirable. Salary will be commensurate with qualifications.

Postdoctoral Associate, Organic Chemistry: The appointee will be involved in research, development, and production of novel nucleic acid compounds. The appointee must have a Ph.D. with broad experience in general organic chemistry and purification/analytic techniques. Prior experience with nucleic acid synthesis and phosphoramidite chemistry is desirable.

Integrated DNA Technologies, Inc. is located near major university medical and research centers. IDT is an equal opportunity employer.

Candidates should submit a curriculum vitae with list of publications and a letter of interest outlining relevant areas of expertise to:

**Mark Behlke M.D., Ph.D.
Vice President, Molecular Genetics and Bioinformatics
Integrated DNA Technologies, Inc.
1710 Commercial Park
Coralville, Iowa 52241
mbehlke@idtdna.com**

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**ASSISTANT PROFESSOR
DEPARTMENT OF PHARMACOLOGY AND CANCER
BIOLOGY**

The Department of Pharmacology and Cancer Biology invites applicants to apply for a tenure-track faculty position in Neuropharmacology at the Assistant Professor level. Candidates whose research interests bridge at least two levels of organization (molecular, cellular, brain circuits, whole animal) are preferred. The successful candidate will join an interactive faculty with expertise in molecular biology, cell signaling, electrophysiology, nervous system development and neuroimaging. Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience and a strong record of research accomplishments. The successful candidate is expected to establish an extramurally-funded research program and to teach in appropriate undergraduate, graduate and/or medical school courses.

Send a curriculum vitae, a statement of research interests and the names of at least three references by **December 1, 1999 to: Chair, Neuropharmacology Search Committee, Department of Pharmacology and Cancer Biology, Box 3813, Duke University Medical Center, Durham, NC 27710.**

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- Be engaged in and within 1-3 years of completing dissertation research

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An applicant must:

- Hold a Ph.D. or equivalent degree in a biomedical life or physical science
- Be appointed as a postdoctoral fellow during the 2000 calendar year at an academic or non-academic research institution (private industrial laboratories are excluded)

Applicants must be African American (Black, non-Hispanic), U.S. citizens or permanent residents and at an institution in the U.S.A. Applications must be postmarked by January 31, 2000

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

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Available for a fixed-period of two years as part of a European Union-Training and Mobility of researchers network on 'Complex Architectures in Diblock Copolymer Based Polymer Systems'. You must be a non-UK citizen of an EU country. This post will be predominantly concerned with structure and dynamics probed using x-ray scattering experiments at the Synchrotron Radiation Source, Daresbury, UK and the European Synchrotron Radiation Facility, Grenoble, France. The work will also involve rheology experiments in the lab. A PhD in Chemistry, Materials Science, Physics or related field is essential and some experience of x-ray scattering and/or polymer/soft solids rheology is preferred. Salary: Research IA (£16,286 - £20,811p.a.) according to qualifications and relevant experience.

Application forms and further particulars can be obtained from Dr I W Hamley, School of Chemistry, The University of Leeds, Leeds LS2 9JT, tel: 0113 233 6430, fax: 0113 233 6565, email: I.W.Hamley@chem.leeds.ac.uk Job ref: 043-116-004-027. Closing date: 1 December 1999.

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UPPSALA UNIVERSITET

Uppsala University invites applications for the position of

Professor of Biopharmaceutics at the Department of Pharmacy
UFV-PA 1999/5111

Biopharmaceutics is the study of the uptake and the bioavailability of drugs and how these factors are related to the physico-chemical properties of the drug and the design of the drug delivery system. Important aspects in this context are the dissolution, absorption and metabolism of drugs, principles for drug targeting, the relationship between the design of the dosage form and the local uptake or bioavailability of the drug and the biocompatibility of drug delivery systems. The main focus of the chair of biopharmaceutics is mechanistical studies on absorption and metabolism of drugs and the relationship between the chemical structure of drugs and their bioavailability.

Information about the position and the subject field may be obtained from professor Lars Bohlin tel +46 18 471 44 92, E-mail lars.bohlin@pharmacog.uu.se

A complete announcement with information about the grounds for qualification and application papers can be obtained from Uppsala University, Anneli Henriksnäs, tel +46 18 471 1885, fax +46 18 471 1858, E-mail Anneli.Henriksnas@uadm.uu.se You will also find the announcement on www.personalavd.uu.se/ledigaplats.html

Applications should be submitted to the Vice Chancellor and be sent to Uppsala University, Registrator, Box 256, 751 05 Uppsala, Sweden, or telefaxed +46 18 471 12000, **by 1999-11-16 at the latest**. If the application is sent by telefax or telegram, the original documents should be delivered as soon as possible.

POSITIONS OPEN

TENURE-TRACK POSITIONS NEUROSCIENCE

CASE WESTERN RESERVE UNIVERSITY

As part of a continued phase of growth, the Department of Neurosciences at Case Western Reserve University School of Medicine invites applications for two tenure-track positions. These positions are designed to be filled at the **ASSISTANT PROFESSOR** level, but exceptionally qualified candidates for other levels will be considered. All areas will be considered, including molecular/genetic, cellular, and systems. The department is housed in contiguous, newly renovated space, and provides state-of-the-art facilities and ample opportunity for interaction with the 16 primary faculty members, as well as with secondary faculty in adjacent departments including genetics, pediatrics, physiology and biophysics, and molecular biology and microbiology. Generous start-up funds are available. Candidates should possess a Ph.D./M.D. degree and have several years of postdoctoral experience. They will be expected to develop a successful, funded research program and participate in medical and graduate teaching. Evaluation of applications will begin on December 1, 1999. Please submit a curriculum vitae, a summary of research interests, and the names of three references to: **Dr. Lynn Landmesser, Chair, Department of Neurosciences, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106-4975.** *Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR IN NEUROBIOLOGY BOSTON UNIVERSITY

The Biology Department invites applications from outstanding candidates for a tenure-track appointment at the Assistant Professor level. We seek a colleague who uses modern molecular or cellular approaches to address neurobiological questions. He/she will complement existing research strengths in the areas of synaptic structure and function, neural development and plasticity, signal transduction, sensory systems, neuroethology, and neuroendocrinology. Newly renovated facilities and an attractive start-up package are offered. Responsibilities will include establishing a research program with extramural funding and active participation in undergraduate and graduate teaching. Please submit by December 1, 1999, a curriculum vitae, a statement of research and teaching interests, representative reprints, and three letters of reference to: **Dr. William D. Eldred, Neurobiology Search Committee, Department of Biology, Boston University, 5 Cummings Street, Boston, MA 02215.** For information about the Biology Department and Neuroscience Programs at Boston University see website: <http://bio.bu.edu>. *Boston University is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR PHARMACOLOGY

Pharmacologist. The Ohio State University, Division of Pharmacology, College of Pharmacy, invites applications for the position of Assistant Professor of Pharmacology beginning September 2000. Qualified candidates should have a Ph.D. in pharmacology, toxicology, or related field, and postdoctoral experience. Areas of high priority include biochemical, molecular, or cellular studies involved in the pharmacological or toxicological actions of drugs. This is a tenure-track position with excellent prospects for an individual committed to quality teaching and research, and a willingness to work in a collaborative environment within the university health science community. A complete curriculum vitae and three letters of recommendation (mailed separately) should be sent to: **Ralf Rahwan, Ph.D., Chair of Search Committee, Division of Pharmacology, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210.** *Ohio State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

LANDFORM EVOLUTION UNIVERSITY OF MICHIGAN

The Department of Geological Sciences anticipates permission to fill a tenure-track position at the **ASSISTANT PROFESSOR** level or, in exceptional cases, at a higher level. We seek a geoscientist with broad research interests in the physical aspects of the Earth's surficial processes. Areas of expertise may include, but are not limited to, quantitative geomorphology, neotectonics, satellite-based Earth observation, or the analysis of exposure surfaces. A field component to the candidate's research program is desirable. We expect the applicant to develop a vigorous, externally-funded research program and to show a commitment to teaching at both the graduate and undergraduate levels. This includes involvement in our environmental geology degree program and in new interdisciplinary initiatives at the University of Michigan. A Ph.D. is required. Interested persons should send a curriculum vitae, names of five persons from whom the department may request letters of recommendation, and brief statements of their research and teaching interests to: **Professor Ben A. van der Pluijm, Search Committee Chair, Department of Geological Sciences, University of Michigan, Ann Arbor, MI 48109-1063.** E-mail: vdpluijm@umich.edu. To receive a careful evaluation this academic year, applications should be received by January 1, 2000. This search will continue until the position is filled. *The University of Michigan is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK FACULTY POSITION SIGNAL TRANSDUCTION

The School of Medicine invites applications for a tenure-track **ASSISTANT** or **ASSOCIATE PROFESSOR** position available summer 2000. We seek a Scientist investigating intracellular signaling events relevant to development, regeneration, normal cell biology, or pathology of any of the neurosensory systems. This individual will join an interactive, multidisciplinary group studying fundamental questions in sensory neuroscience. The successful candidate is expected to establish a vigorous, independent research program and contribute to the teaching mission of the Neuroscience Graduate Program, which is expanding as part of a major initiative in neurosciences. The successful candidate will receive a competitive start-up package and salary and newly renovated laboratory space. Outstanding applicants that hold Ph.D. or M.D. degrees with established records of research productivity are invited to send a statement of research interests and professional goals, a curriculum vitae, reprints of publications, and arrange to have three letters of recommendation sent by January 10, 2000, to: **George Spirou, Ph.D., Search Committee Chair, Department of Otolaryngology, West Virginia University HSC, Morgantown, WV 26506-9200.**

West Virginia University is an Equal Opportunity/Affirmative Action Employer.

Behavioral Neuroscientist: Tenure-track **ASSISTANT PROFESSOR** in the Psychology Department at Bowling Green State University. Candidates in all areas of behavioral neuroscience are encouraged to apply, but must have a Ph.D. degree, an active research program with potential for external funding, and a commitment to teaching. The department is a Ph.D.-granting program and offers an undergraduate major in neuroscience. Psychology and biology neuroscience faculty participate in the newly established Center for Neuroscience, Mind, and Behavior. Send curriculum vitae, three current original letters of reference, and statement of research and teaching interests to: **Behavioral Neuroscience Faculty Search, Psychology Department, Bowling Green State University, Bowling Green, OH 43403.** Applications must be postmarked by December 3, 1999, to be considered. *Bowling Green State University is an Affirmative Action/Equal Employment Opportunity Employer; women, minorities, veterans, and persons with disability are encouraged to apply.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF MEDICINAL CHEMISTRY

The University of Kansas Department of Medicinal Chemistry is seeking to fill a tenure-track Faculty position beginning August 18, 2000. A Ph.D. in medicinal chemistry, organic chemistry, or a related field is required, and postdoctoral experience is desirable. Duties include teaching at the undergraduate and graduate levels and the direction of a vigorous, externally funded, basic research program. The research interests of the candidate should be in the field of bio-organic chemistry, defined broadly, and should complement those of the current faculty (website: <http://www.pharm.ukans.edu/medchem>). The opening is expected to be filled at the Assistant Professor level, but outstanding applications may be considered for appointment at a higher rank. Candidates must show evidence of well-defined research plans through the submission of an outline of proposed research. Salary will be commensurate with qualifications and experience. Applicants should submit a letter of interest, résumé, a brief summary of research interests, and should arrange for submission of three or more letters of recommendation to: **Professor Jeffrey Aubé, Department of Medicinal Chemistry, University of Kansas, Lawrence, KS 66045-2506.** Initial review of applications will begin November 19, 1999, and will continue until the position is filled. *Equal Opportunity/Affirmative Action Employer.*

TENURE-TRACK FACULTY POSITION IN BIOCHEMISTRY

The Tulane Cancer Center and the Department of Biochemistry are seeking applications at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Requirements include a Doctorate in a relevant field of study and postdoctoral research experience. The successful candidate will develop an independent research program on the biochemistry of cancer, preferably in the areas of cell signaling and hormonal control of cell proliferation, genetics, or molecular therapeutics of cancer. The successful candidate will be expected to participate in graduate or medical student teaching within the department. Modern laboratory space will be in the newly constructed floor dedicated to basic cancer research, providing a strong and interactive research environment. Candidates with movable extramural research support can expect resources to expand their research program. Applications will be accepted until the position is filled. Submit applications, including curriculum vitae and summary of research interests, and three letters of recommendation to: **Dr. Prescott Deininger, Tulane Cancer Center, SL-66, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112.** *Tulane University is an Affirmative Action/Equal Opportunity Employer.*

University of Maryland, School of Medicine is seeking to fill an **ASSISTANT** or **ASSOCIATE PROFESSOR** position in cancer biology. The primary appointment will be in a tenure-track position in the Department of Pharmacology and Experimental Therapeutics. The successful candidate will be expected to develop their own independent research program utilizing molecular, immunological, and cellular biological approaches to address questions relevant to various facets of cancer biology and pharmacology. Candidates are expected to participate in medical and graduate education. A generous start-up package is available. Applicants should submit curriculum vitae, selected reprints, a short research summary, and three references to:

**Danny Weinreich, Ph.D.
Chair, Cancer Biology Search Committee
Professor of Pharmacology and
Experimental Therapeutics
University of Maryland, School of Medicine
655 West Baltimore Street
Room 4-002, BRB
Baltimore, MD 21201**

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

**Chair
Department of Environmental
Health Sciences**

The Tulane University School of Public Health and Tropical Medicine seeks qualified candidates for the Chair of the Department of Environmental Health Sciences. The Department, comprised of 22 resident faculty and more than 100 graduate students, has research, teaching and service interests in the areas of environmental toxicology, hazardous waste management, industrial hygiene, risk assessment, water quality management, environmental policy and management, and environmental health for developing countries.

Candidates must have a Ph.D., Dr.P.H., Sc.D., or M.D. degree. The candidate is expected to be a nationally recognized investigator in one or more of the areas noted above, with an extramural-funded research program, excellent managerial and communication skills and a record of collaboration in both University and industry.

To apply please submit a letter outlining current interests and relevant experience, a curriculum vitae and the names of three references. The search committee will screen applications until the position is filled.

Send applications to:

**Dr. Thomas Orihel, Chair
Search Committee
Dean's Office - TW13
Tulane University School of Public Health
and Tropical Medicine
1440 Canal Street, Suite 2210
New Orleans, LA 70112**

*Tulane University is an equal opportunity/
affirmative action employer and encourages
women and minorities to apply.*



**FACULTY POSITION IN
VIROLOGY
UNIVERSITY OF CALIFORNIA,
LOS ANGELES**

The Department of Microbiology, Immunology and Molecular Genetics at the University of California, Los Angeles invites applications and nominations for a state-funded, **TENURE-TRACK** position. We seek candidates who will establish a vigorous and innovative research program in virology, and who will participate in teaching activities of the Department. The successful candidate will have the opportunity to interact with strong existing basic and clinical programs in AIDS research, gene therapy, cell and molecular biology, neural and tumor virology, immunology and vaccine development, and viral pathogenesis. Applicants should submit a curriculum vitae, a summary of research accomplishments and future objectives, and should arrange for three letters of recommendation to be sent to: **Virology Search Committee, Department of Microbiology, Immunology and Molecular Genetics, UCLA, 1602 Molecular Sciences Building, Los Angeles, CA 90095-1489**. Review of nominations and applications will begin December 15, 1999, and continue until the position is filled.

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

EUROPEAN OPPORTUNITIES

University College Dublin

An Colaiste Ollscoile, Baile Átha Cliath.



The Conway Institute of Biomolecular and Biomedical Research

DIRECTOR (Ref: No. 233/99)

Applications are invited for the post of Director of the Conway Institute of Biomolecular and Biomedical Research, a new multidisciplinary research institute on the main Belfield campus of University College Dublin with major funding from the Higher Education Authority's Programme for Research in Third Level Institutions 1999-2001. The Conway Institute will establish a critical mass of high quality investigators drawn from UCD's Faculties of Medicine, Veterinary Medicine, Science, Agriculture and Engineering within a dynamic, multidisciplinary, collaborative research environment. The latter will include a new state-of-the-art research facility (~7000 M²), a core of high technology equipment and technical expertise, and new organisational and operational structures that transcend traditional faculty boundaries.

The Director will be a scholar of international distinction with a track record of scientific publication and acquisition of extramural funds in academia and/or a major leadership role in the biotechnology or pharmaceutical sector. Guided by the Board of Management, the Director will be responsible for facilitating the Institute's scientific goals, stimulating new collaborations, identifying new sources of extramural funding, spearheading protection of the Institute's intellectual property, and promoting fast-tracking of the Institute's scientific discoveries to bioindustry. The Director will play a key role as a manager and facilitator of multidisciplinary projects involving Conway investigators and involving collaboration of Conway investigators with extramural research groups in Ireland and abroad.

An attractive salary and benefit package will be available commensurate with experience.

Closing date: Not later than 5.00 p.m. on Thursday 11 November, 1999.

Prior to application, further information (including application procedures) should be obtained from the Personnel Office, University College Dublin, Belfield, Dublin 4, Ireland (quoting above reference number). Telephone enquires: (353 1) 706 1653 and (353 1) 706 1645. Fax: (353 1) 269 2472. Email: acadrec@listserv.heai.ie

National University of Ireland, Dublin

Ollscoile na hÉireann, Baile Átha Cliath.

EUROPEAN OPPORTUNITIES

Medical Faculty of the University of Würzburg

The Department of Immunology in collaboration with
the Departments of Virology, Neurology and Surgery

invites applications for

Head of a Junior Research Group (BAT Ia)

on *Development and Characterization of Genetically Modified Rat Strains for Research in Basic Immunology and Models of Transplantation and Autoimmunity*

to be established under the Volkswagen Foundations's Programme "Junior Research Groups at German Universities." This programme provides young and excellent scientists with the opportunity to carry out independent research work at an early stage in their career (see also <http://www.volkswagen-stiftung.de>). A funding period of 5 years is envisaged. In addition to the position of the group leader, funding will be provided for 1 postdoc, one PhD student and one technical assistant, as well as for equipment and consumables.

The rat model provides unique opportunities for experimental medical research in basic and applied immunology. The above institutions at the University of Würzburg have established model systems in the rat for lymphocyte differentiation and function, autoimmune neurologic disease and allogeneic transplantation, and have extensive experience in the establishment and analysis of genetic modifications in mice. It will be the task of the Junior Research Group to establish and further develop rat transgenic technology at the Medical Faculty, pursuing own independent projects and collaborating with existing research groups studying the rat immune system.

Applicants should have either an MD or PhD degree. They should have a very good scientific background in immunology and experience in rodent transgenic technology and/or in rat immunogenetics. In case of family commitments part-time occupation with a corresponding extension of the overall funding period may be possible. The University of Würzburg is an equal opportunity employer. In case of equal qualification, handicapped applicants will be considered with preference. Applicants should send their c.v., list of publications, an outline of current and proposed research activities and names of three references by December 1st, 1999 to

Prof. Dr. Thomas Hünig
Institute for Virology and Immunobiology
University of Würzburg
Versbacher Str. 7
97078 Würzburg
Germany.

For further inquiries, e-mail huenig@vim.uni-wuerzburg.de

POSITIONS OPEN

The Center for Genomic Sciences (CGS) invites applications for two faculty positions, at the **RESEARCH ASSOCIATE/ASSISTANT PROFESSOR** level, depending on qualifications. Both positions require a Ph.D. or M.D. degree with relevant postdoctoral research experience. Preference will be given to individuals with experience in positional cloning and the development and screening of arrayed expression libraries, and to individuals with experience in developing gene expression systems and the creation and use of knockout/in mice. The CGS is a fully equipped, multidisciplinary gene-discovery facility with over \$2 million of new capital equipment purchased in the last two years. Current projects include the genetics and physiology of gastroesophageal reflux, craniosynostoses, vesicoureteral reflux, and hereditary pancreatitis; and the study of differential gene expression of host and pathogen during mucosal bio-film formation, scarless fetal wound healing, and hemorrhagic shock.

The successful candidates will be appointed for three-year terms with full salary support, during which time it is expected they will develop extramurally funded research programs. Applicants should submit a curriculum vitae, three relevant publications, a list of references, and a description of their research interests to: **Professor Garth Ehrlich, Ph.D., Center for Genomic Sciences, Room 1030 S.T., Allegheny General Hospital, Pittsburgh, PA 15212.**

Smoke-free/drug-free workplace. *Equal Opportunity Employer.*

FACULTY POSITION CELL AND MOLECULAR BIOLOGY

The Department of Biological Sciences at the University of Arkansas has an opening for a **TENURE-TRACK PROFESSOR** to begin August 14, 2000. Applicants must have a Ph.D. (or equivalent), postdoctoral experience, and demonstrated abilities to establish an innovative, externally funded research program in molecular and cell biology. The successful applicant will also be expected to contribute to undergraduate and graduate courses, especially in the area of virology. Applications should include a curriculum vitae, detailed statements of teaching and research plans, representative publications, and at least three letters of recommendation to: **Dr. Jeannine M. Durdik, Cell/Molecular Search Chair, Department of Biological Sciences, SCEN 629, University of Arkansas, Fayetteville, AR 72701.** Review of applications will begin December 1, 1999, and continue until the position is filled. For more information on the university and department see [website: http://biology.uark.edu/bisc.html](http://biology.uark.edu/bisc.html). Applicants must have proof of legal authority to work in the United States at the time of hire. *The University of Arkansas is an Equal Opportunity/Affirmative Action Employer. The Department is especially interested in applications from qualified candidates who would contribute to racial, ethnic, and gender diversity.*

ASSISTANT PROFESSOR INORGANIC CHEMISTRY

Tenure-track Faculty position starting September 2000. The Chemistry Department of Lawrence University seeks an outstanding teacher/scholar who will develop an active research program involving undergraduates in any subfield of inorganic, bioinorganic, or materials chemistry. Teaching opportunities include a lab-based inorganic chemistry course, introductory and intermediate chemistry core courses, advanced or general science offerings in the successful candidate's areas of interest, and interdisciplinary courses such as our college-wide Freshman Studies Program. Ph.D. required; significant postdoctoral research experience strongly preferred. Details are provided at [website: www.lawrence.edu/dept/chemistry](http://www.lawrence.edu/dept/chemistry). Send curriculum vitae, undergraduate and graduate transcripts, three letters of reference, and statements of research plans and teaching philosophy to: **Professor Mary Blackwell, Chemistry Search Committee, Lawrence University, Appleton, WI 54912.** Review of applications begins December 6, 1999. *Affirmative Action/Equal Employment Opportunity.*

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF PHYSIOLOGY University of Florida College of Medicine

The Department of Physiology invites outstanding applicants for a tenure-track Faculty position at the Assistant Professor level. The successful candidate will be expected to develop a strong, extramurally supported, independent research program in the field of cardiovascular genomics. The department is ranked ninth nationally in research dollars/faculty and excels in teaching professional and graduate students. The position will complement current departmental strengths in gene therapy for hypertension and cardiovascular disease. The college has a Mammalian Genetics Center, Hypertension Center, and Gene Therapy Center. Salary is negotiable based on qualifications and experience. An excellent start-up package includes initial support from the Howard Hughes Medical Institute Research Resources Program for Medical Schools grant to the College of Medicine. Applicants must have a Ph.D., M.D., or their equivalents, postdoctoral experience, and an excellent record of research productivity and quality. Submit a curriculum vitae, including a statement of research plans, and names of at least three references to: **Mohan K. Raizada, Ph.D., Professor of Physiology and Chair of Search Committee, P.O. Box 100274, University of Florida College of Medicine, Gainesville, FL 32610-0274.** Application deadline: December 31, 1999. Anticipated start date: July 1, 2000. *The University of Florida is an Equal Employment Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

ASSISTANT PROFESSOR

The Department of Biology at the University of North Carolina at Chapel Hill has conditional approval to seek an outstanding candidate for a tenure-track position at the Assistant Professor level to join an interactive plant biology group. This individual will use state-of-the-art genetic, molecular, biochemical, and/or cellular approaches to address fundamental questions in plant cellular and/or developmental biology. Candidates must have a Ph.D. and significant successful postdoctoral experience. Applications should include a curriculum vitae, a concise description of current and future research interests, and a statement of teaching philosophy. Applicants should provide these items, and arrange for four letters of recommendation, to: **Chair, Plant Biology Search Committee, Department of Biology, CB#3280, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-3280.** We will begin reviewing applications on December 10, 1999. *The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.*

DEVELOPMENTAL BIOLOGIST—8649 UNIVERSITY OF ILLINOIS AT CHICAGO

The Department of Biological Sciences at the University of Illinois at Chicago (UIC) invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek applications from individuals whose research program emphasizes molecular and genetic approaches to the understanding of development using plant, animal, or microbial model systems. Successful candidates will be expected to pursue a vigorous independent research program and to contribute to the department's undergraduate and graduate teaching efforts. For fullest consideration, send a curriculum vitae, a brief summary of research plans, and at least three letters of recommendation by December 1, 1999, to:

**Search Committee for Developmental Biologist
c/o Ms. Isabel Stierle
Laboratory for Molecular Biology
900 South Ashland Avenue—mc 567
Chicago, IL 60607**

UIC is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

TENURE-TRACK POSITION PROSTATE CANCER OR OTHER UROLOGICAL DISEASES

The Department of Urology at Northwestern University Medical School seeks applicants for a tenure-track position at the level of **ASSISTANT PROFESSOR**, although higher ranks will be considered for particularly well-qualified applicants. This position emphasizes the quality of the applicants rather than prior research interests. However, the applicants should have desire and capability to develop a rigorous research program in the area of prostate cancer and/or other urological problems. The applicants are expected to attract extramural funding. The Department of Urology at Northwestern provides an excellent environment for career development of young Investigators with interests in prostate cancer research or other urological research. Applicants must have a Ph.D. or equivalent, postdoctoral training, and a commitment to excellence in research. Send curriculum vitae, names of at least three references, and a statement of research plans to: **Zhou Wang, Ph.D., Department of Urology, Northwestern University Medical School, Tarry 11-715, 303 East Chicago Avenue, Chicago, IL 60611.** *Affirmative Action/Equal Opportunity Employer.*

The Heart Center of the Cleveland Clinic Foundation and the Lerner Research Institute seeks a **SENIOR CARDIOVASCULAR INVESTIGATOR** (M.D. and/or Ph.D.) with national recognition in the area of heart failure. The successful applicant will be expected to lead a multi-investigator heart failure research program, involving both basic scientists and clinical investigators. The Cleveland Clinic Heart Center sees an enormous patient population and performs more heart transplants than any other center in the country, creating vast opportunities for clinical interaction. In addition, the applicant will profit from the outstanding facilities of the Lerner Research Institute, which includes 100 independent scientists with many programs committed to basic molecular and cellular investigations. The new 420,000-square-foot Lerner Research Institute complex houses state-of-the-art facilities and numerous shared resources. More information may be obtained on our [website: www.ccf.org](http://www.ccf.org). Qualified applicants should send a curriculum vitae including contact information of three references to: **Dr. Edward F. Plow, Chairman, Department of Molecular Cardiology, The Cleveland Clinic Foundation, 9500 Euclid Avenue/NB50, Cleveland, OH 44195.** *The Cleveland Clinic is an Equal Opportunity/Affirmative Action Employer.*

Black Hills State University, Department of Science, invites applications for a tenure-track position in organic chemistry or biochemistry at the **ASSISTANT PROFESSOR** level. Primary duties include teaching organic chemistry, biochemistry, general and/or survey chemistry. A Ph.D. in chemistry and teaching experience required (ABD acceptable if completion is imminent). Commitment to undergraduate research, particularly in interface areas with biology or hydrology, is highly desirable. Send curriculum vitae, transcripts, a description of research interest, a statement of teaching philosophy, and letters from three references by December 1, 1999, to: **Dr. Michael Zehfus, Chair, Chemistry Search Committee, Department of Science, Unit 9088, Black Hills State University, Spearfish, SD 57799-9088.**

POSTDOCTORAL POSITIONS are available in the laboratories of **Dr. D. Moskophidis** (Virology/Immunology) to study viral pathogenesis (LCMV and Influenza) and **Dr. N. Mivechi** (Signal transduction/transcription) to study molecular mechanism of transcriptional regulation. Experience in molecular virology/immunology (Moskophidis laboratory) and molecular biology/human genetics (Mivechi laboratory) is essential. Send résumé to: **Medical College of Georgia, 1120 15th Street, IMMAG, CB2803, Augusta, GA 30912-2650.** E-mail: moskophidis@immag.mcg.edu or mivechi@immag.mcg.edu. *Equal Employment Opportunity/Affirmative Action.*

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right course
for your
career.**



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Pharmaceuticals

Senior Biochemist

Who we are

Hoffmann-La Roche, one of the world's leading healthcare companies, has a long-standing reputation for successful and innovative drug development. Our Cardiovascular Research Department in Basel, Switzerland, is strengthening its activities in novel target discovery in the area of Metabolic Diseases and Diabetes. To complete the biochemistry team, we are seeking a senior biochemist with a strong background in protein biochemistry and signaling pathways.

The position

You will be lead a team dedicated to the discovery of novel drug targets and agents for the treatment of cardiovascular pathologies. Team spirit, innovation and a multidisciplinary approach are required for success in this challenging therapeutic area.

Who you are

You must have a PhD in biochemistry or molecular biology, 3 years' relevant post-doctoral experience, in-depth knowledge of protein biochemistry techniques and an innovative approach oriented towards target discovery. A significant background in metabolic diseases and diabetes signaling pathways would be an advantage. You must be fluent in English.

Who to contact

If the above profile fits your background and experience, and you are interested in this challenging position, please send your application with full supporting documentation to: F. Hoffmann-La Roche Ltd, Mr Werner Aschwanden, PSPB-1, 52/205, P.O. Box, CH-4070 Basel, quoting reference As2282.

POSITIONS OPEN

BEHAVIORAL ECOLOGY

The Biology Department at the University of Massachusetts at Amherst invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. We seek a field-oriented Behavioral Ecologist with a strong commitment to research and to undergraduate and graduate education, who will develop a vigorous, externally funded research program, teach courses including animal behavior, and interact with colleagues in biology and in the life sciences. Preference will be given to candidates who will interact with our strong vertebrate biology group and contribute to graduate education through the Organismic and Evolutionary Biology Program and/or the Neuroscience and Behavior Program.

Applicants should mail a curriculum vitae, statement of research plans and teaching philosophy, and arrange for three letters of reference to be sent to: **Behavioral Ecology Search, Biology Department, University of Massachusetts, Amherst, MA 01003-5810**. Information about the Biology Program, the Organismic and Evolutionary Biology Program, and the Neuroscience and Behavior Program at the University of Massachusetts is available at **web-site: www.bio.umass.edu**. Questions may be sent to **e-mail: behavsearch@bio.umass.edu**. Review of applications will begin November 10, 1999, and continue until the position is filled.

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

Biology. Sarah Lawrence College, a coeducational, liberal arts college dedicated to individualized education, is recruiting a broadly trained **BIOLOGIST** with a specialty in genetics/molecular biology for a tenure-track position beginning August 1, 2000. Successful candidates also should demonstrate an ability to teach other undergraduate courses, depending on their background and interests, such as anatomy and physiology, microbiology, nutrition, and biotechnology. Courses are offered from the general liberal arts level to the intermediate/advanced biology level. An interest in working closely with students on an individual basis is essential. Ph.D. and teaching experience is required. Please send résumé, copy of graduate transcript, teaching philosophy, two sample course descriptions, and three letters of recommendation to: **Dr. Leah Olson, Sarah Lawrence College, Bronxville, NY 10708**. Deadline for receipt is December 1, 1999. *An Equal Opportunity Employer, Sarah Lawrence College encourages applications from minorities and women.*

RESEARCHER in biochemistry experienced in biochemical purification techniques. Research entails applying biochemical skills to investigate the biochemical basis of how human chromosomes segregate accurately during mitosis. Experience in biochemical purification techniques of human cell proteins required. Ph.D. in biochemistry required.

Send curriculum vitae and letter of application to:

**Fox Chase Cancer Center/MAM
Human Resources Department
7701 Burholme Avenue
Philadelphia, PA 19111**

Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS needed to work in medical research foundation. Snyder Research Foundation has permanent positions for biologically oriented Ph.D.-level scientists to work in research laboratory. Although any area of basic cancer research will be considered, priority will be given to those interested in tumor markers. Apply before November 15, 1999, to: **Dr. Larry Smith, Executive Director, 1407 Wheat Road, Snyder Research Foundation, Winfield, KS 67156**. E-mail: snyderlrf@hit.net.

The State of Louisiana has immediate opening for **LABORATORY SUPERVISOR** in the Shreveport Regional Lab. Qualifications include B.S. degree in medical technology, microbiology, or other science field plus two years of professional-level laboratory experience, M.S. or Ph.D. preferred. Forward résumé to: **Shreveport Regional Laboratory, P.O. Box 3561, Shreveport, LA 71133**. *Equal Opportunity Employer.*

POSITIONS OPEN

POPULATION BIOLOGIST

The Department of Zoology at the University of Washington seeks to fill a tenure-track position for a Population Biologist working in ecology or evolution. We expect to hire at the **ASSISTANT PROFESSOR** level, but exceptional candidates at the **ASSOCIATE** or **FULL PROFESSOR** rank may be considered if they also have a demonstrated record of mentoring students in under-represented groups (women and students of color). Applicants should have a Ph.D. degree by the start of appointment. The position requires undergraduate and graduate teaching and a vigorous program of independent research. Applications, including a curriculum vitae, statement of research and teaching interests, and three letters of recommendation, should be sent to: **Dr. John Wingfield, Chair, Department of Zoology, University of Washington, Box 351800, Seattle, WA 98195-1800 USA**. Priority will be given to applications received before December 15, 1999. *The University of Washington is building a culturally diverse faculty and strongly encourages applications from women and minority candidates. The University is an Equal Opportunity/Affirmative Action Employer.*

The Centers for Disease Control/National Institute for Occupational Safety and Health's (CDC/NIOSH) Pittsburgh Research Laboratory invites applications for **RESEARCH FELLOWS** who will conduct research projects in studies of noise control, hearing loss prevention, health communications, and surveillance pertaining to all sectors of mining. Principal areas of investigation are sound and vibration analysis, engineering design, equipment design, equipment operation, personal hearing protection, and audiometric analysis. Applicants must have a Master's degree or a postdoctoral degree or equivalent in one of the following disciplines: physics, mechanical engineering, systems and industrial engineering, industrial hygiene, audiology, behavioral sciences, biostatistics, or epidemiology. In addition, the candidate must have at least one year of progressively responsible experience conducting research in one of the areas of principal investigation. Call **Telephone: 412-386-6730** for application materials. *CDC/NIOSH is an Equal Opportunity Employer; women and minority candidates are encouraged to apply.*

VICE PRESIDENT FOR RESEARCH CREATIVE ACTIVITIES AND TECHNOLOGY TRANSFER North Dakota State University Fargo, North Dakota

North Dakota State University in Fargo, North Dakota invites inquiries, nominations, and applications for the position of Vice President for Research, Creative Activities, and Technology Transfer to begin service on July 1, 2000. Screening will begin December 3, 1999, and continue until the position is filled. For more information including responsibilities, qualifications, and application procedures for this position, visit our **website: http://www.ndsu.nodak.edu/ndsu/administration/president/vp_research/**, or **e-mail: chpeters@badlands.nodak.edu**. *North Dakota State University is an Equal Opportunity Institution.*

Biology/science education **ASSISTANT PROFESSOR** (V-17); tenure track. Ph.D. or Ed.D. with graduate courses in biology. Teach introductory biology, general education, and M.S. courses in biology science education. Contribute to development of a doctoral program in science education for kindergarten through 12th grade teachers. Pursue research/scholarship/grants. Experience in supervising science education research preferred. Applicants should submit curriculum vitae, summary of research interests, statement of philosophy of teaching, and the names of three references to: **Dr. Bonnie Lustigman, Chair, Biology Department, Montclair State University, Upper Montclair, NJ 07043**. Subject to available funding. Screening begins immediately and continues until position is filled. *Montclair State University is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

COGNITIVE NEUROSCIENTIST. The Department of Psychology at the University of New Mexico and the recently established National Foundation for Functional Brain Imaging in Albuquerque are seeking a Cognitive Neuroscientist at a Senior level. Applicants must have a Ph.D. with specialization in cognitive neuroscience, have strong national/international reputation for neuroimaging research involving processes of learning, memory, decision-making, perception, action/planning, or other complex cognitive activity, have expertise in one or more functional imaging techniques (such as fMRI and MEG), teaching experience at the undergraduate and graduate levels, a successful record in training graduate students and postdoctoral fellows, and success in obtaining extramural grant funding. The appointment will be jointly to the Department of Psychology at UNM and to the National Foundation for Functional Brain Imaging. The successful applicant must have the qualities to play a leadership role in cognitive neuroscience training and functional brain imaging research programs at both institutions and an interest in collaborative research. Send letter of application, curriculum vitae, and names, addresses, and telephone numbers of at least three references to: **Robert J. Sutherland, Chair, Cognitive Neuroscience Search Committee, Department of Psychology, Logan Hall, University of New Mexico, Albuquerque, NM 87131-1161**. Telephone: 505-277-4870; **e-mail: Sutherland@unm.edu**. Review of applications will begin November 15, 1999, and will continue until the position is filled. *The University of New Mexico is an Equal Opportunity/Affirmative Action Employer and Educator.*

PROGRAM DIRECTOR ARCTIC NATURAL SCIENCES PROGRAM NATIONAL SCIENCE FOUNDATION Arlington, Virginia

National Science Foundation's Office of Polar Programs is seeking qualified applicants for the position of Program Director in the Arctic Natural Sciences Program. The Program Director will have primary responsibilities, which involve proposal evaluation, project development and support, program planning, and related administrative duties.

Applicants must have a Ph.D. or equivalent experience in biosciences, preferably biological oceanography, and six years of successful research experience (especially field programs) beyond the Ph.D. are required.

The announcement (EX 99-67A), which includes position requirements and application procedures, is located on National Science Foundation's Division of Human Resource Management **website: <http://www.nsf.gov/oirm/hrm/>**. Applicants may also obtain a copy of the announcements by contacting the Staffing and Classification Branch at **Telephone: 703-306-1185, extension 3092** (hearing impaired individuals may call **Telephone: TDD 703-306-0189**). Applications must be received by November 15, 1999.

National Science Foundation is an Equal Opportunity Employer committed to employing highly qualified staff that reflects the diversity of our nation.

POSTDOCTORAL POSITIONS

Positions available immediately in the Radiation Oncology Research Laboratory of the University of Maryland School of Medicine to study the molecular mechanisms of genomic instability and DNA repair. The Radiation Oncology Research Laboratory is a newly formed research group with close ties to the Molecular and Cell Biology Graduate program and the Greenebaum Cancer Center. We are seeking candidates with a background in molecular biology and/or biochemistry and an intellectual interest in the cellular effects of ionizing radiation. Please send curriculum vitae, a statement of research interests, and names and addresses of three references to: **James P. Carney, Ph.D., The Radiation Oncology Research Laboratory, University of Maryland School of Medicine, Bressler Research Building 6-015, 655 West Baltimore Street, Baltimore, MD 21201**.

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M. Usher et al 22 January '99

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S9XNE6

POSITIONS OPEN

Xavier University of Louisiana, a Catholic, historically black university, is seeking an **ENVIRONMENTAL SCIENTIST** for a newly created tenure-track Faculty position in the Department of Biology. The position will provide guaranteed research support and three-quarters release from teaching responsibilities, both for an initial period of three years. A starting date of June 1, 2000, is anticipated. Doctorate in the biological sciences required, with at least two years of postdoctoral experience and a suitable record of research productivity. Successful candidate will be expected to develop a research program of direct relevance to environmental health concerns. Limited academic advising. Preference given to candidates who can contribute to the department's teaching mission in the areas of neuroscience, endocrinology, molecular/cellular biology, or physiology. Ability to work collegially in a department primarily dedicated to undergraduate teaching, and to the involvement of undergraduates in research, is essential. Send curriculum vitae, a description of research and teaching interests, and the names of three references to: **Dr. Michelle Boissiere, Chair, Search Committee, Department of Biology, Xavier University, New Orleans, LA 70125**. Review of applications will begin December 1, 1999, and will continue until the position is filled. *Xavier University is an Equal Opportunity/Affirmative Action Employer.*

EXPERIMENTAL BIOLOGICAL/ BIOMEDICAL PHYSICS Washington University in St. Louis

The Department of Physics at Washington University invites applications for two Faculty positions in experimental biological/biomedical physics, as part of a sequence of up to six faculty hires in various areas. The appointments commence September 2000. While the positions are nominally at the Junior level, outstanding Senior candidates will also be considered. Applicants should send a curriculum vitae, description of research plans, and the names of at least three references (five, in the case of senior candidates), to: **Professor Clifford Will, Biological Physics Search, Department of Physics, Campus Box 1105, Washington University, One Brookings Drive, St. Louis, MO 63130-4899**. Applications received by January 1, 2000, will be assured of full consideration. For more information, call **Telephone: 314-935-6276**, or view the **website: www.physics.wustl.edu**. *The department is particularly interested in seeking outstanding female and minority candidates. Washington University is an Equal Opportunity/Affirmative Action Employer.*

RESEARCH ASSISTANT PROFESSOR FUNCTIONAL AND STRUCTURAL GENOMICS

Successful applicant will be responsible for characterizing functions of genes from the genome of *C. elegans* using *htp* RNA interference methods and *in vivo* biological assays. The goal of the work is to develop a genomic-scale process for gene-function characterization that will integrate with efforts in genomic-scale 3D structure analysis, and to distribute this information to the scientific community as a structure-function database. Familiarity with modern bioinformatics methods is also required. Please send curriculum vitae to: **Linda Van Der Veer, Personnel Administrator, Center for Advanced Biotechnology and Medicine, 679 Hoes Lane, Piscataway, NJ 08854**.

DOCTOR OF ARTS IN BIOLOGICAL SCIENCES

FELLOWSHIPS are available for persons interested in this innovative program that stresses preparation for undergraduate teaching at colleges and universities. Applicants should hold a Master's degree in biology. Deadline for receipt of applications is 1 March 2000. For more information about the program, our job placement record, etc., contact: **Chairman D. A. Committee, Department of Biological Sciences, Idaho State University, Pocatello, ID 83209-8007**. *An Equal Opportunity Employer.*

POSITIONS OPEN



Harvard University is searching for a **SENIOR SCIENTIST ADMINISTRATOR** to provide administrative leadership for the Department of Physics. **Website: <http://hussle.harvard.edu/~gabrieis/gabrieis/Director.html>**.

The US Army Medical Research Institute of Chemical Defense (USAMRICD) is the lead laboratory in the Department of Defense for research on the development of antidotes against chemical warfare threats. The Institute currently has an opening for a **PRINCIPAL INVESTIGATOR** and team leader with a background in biochemistry or molecular biology. Applicants should be able to provide evidence of experience in the following: (1) the ability to design and conduct original research involving the application of molecular biology techniques/strategies in the development of mutant recombinant human proteins, (2) the ability to communicate orally to defend scientific programs and ideas to peers and upper-level management, and (3) the ability to interpret, summarize, and express findings in scientific papers, technical reports, and in recommendations to upper level management. Knowledge regarding transgenic animal development, inducible expression systems, experience involving the identification, cloning, and expression of wild type or site-directed mutant genes, and experience working with proteins that are postulated to have a therapeutic effect *in vivo* against a xenobiotic compound is highly desirable. A Ph.D. is preferred; U.S. citizenship is required. The USAMRICD is located near Baltimore, Maryland at the head of the Chesapeake Bay. In addition to a strong intramural program, the USAMRICD currently has in place numerous collaborative research efforts with national and international laboratories. Salary is commensurate with experience (\$48,796 to \$63,436). Interested applicants should send their résumé to: **Civilian Personnel Operations Center, Northeast Region, 314 Johnson Street, Attn: Division 1, Branch B, Aberdeen Proving Ground, MD 21005-5283**.

POSTDOCTORAL POSITION available for analysis of the structure and assembly of large bacterial viruses. Candidates should have a Ph.D. in either molecular biology or a related field. Experience with electron microscopy is preferred. Send curriculum vitae and at least two letters of recommendation to: **Dr. Philip Serwer, The University of Texas Health Science Center at San Antonio, Biochemistry MSC-7760, 7703 Floyd Curl Drive, San Antonio, TX 78229-3900**. E-mail: serwer@uthscsa.edu. *The University of Texas Health Science Center at San Antonio is an Equal Employment Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITION in molecular neuroscience at Johns Hopkins University, to investigate neuronal excitotoxicity and ischemic injury with a focus on nitric oxide signaling, PARP and PARG, and mitochondrial function including AIF signaling. Studies include the cloning of novel genes, use of viral gene transfer, transgenic and knockout animals to identify signal cascades. Please send curriculum vitae to: **Drs. Valina and Ted Dawson, Department of Neurology and Neuroscience, Johns Hopkins University, 600 North Wolfe Street/Carnegie 214, Baltimore, MD 21287**. E-mail: aschmid@jhmi.edu. *Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR OF FOOD SCIENCE AND TECHNOLOGY THE OHIO STATE UNIVERSITY

Outstanding people sought for three tenure-track faculty positions in functional foods, sensory science, and food safety. A desire to join a high stature, student-centered team and desire for collective achievement is essential. **Website: www.fst.ohio-state.edu/join-osu.htm**.

POSITIONS OPEN

BACTERIAL PATHOGENESIS RESEARCH

The University of Calgary Bacterial Pathogenesis Research Group invites applications from outstanding scientists for a full-time academic position focused on bacterial pathogenesis research. The position offers excellent opportunities to develop an independent research program within a multidisciplinary research environment comprising of microbiologists and clinician scientists with interests in bacterial pathogenesis. While duties include teaching and graduate student supervision, 75 percent of time will be protected for research. Calgary is a vibrant, multicultural city (population 800,000) located close to Banff National Park and the Rocky Mountains.

Qualifications for the position include a Ph.D., M.D., or equivalent, an established record of publications, and demonstrated expertise in bacterial pathogenesis research. The selected candidate must compete successfully for salary support and establishment funding from the Alberta Heritage Foundation for Medical Research and/or the Canadian Institutes of Health Research; we anticipate generous start-up funds will be available to a qualified candidate.

We invite applications from all interested persons. Please submit a curriculum vitae and a statement of research interests, and arrange to have three letters of reference sent directly, by December 15, 1999, to:

**Dr. Donald E. Woods, Chair
Bacterial Pathogenesis Research Group
Faculty of Medicine
3330 Hospital Drive, N.W.
Calgary, Alberta, Canada T2N 4N1**

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary respects, appreciates, and encourages diversity.

SCIENTIST

Commonwealth Biotechnologies, Inc. (CBI), a cutting edge biotechnology company located in the Richmond, Virginia area, invites applications for a staff Scientist position in biochemistry. The successful candidate will hold the M.S. or Ph.D. degree in biochemistry or bioorganic chemistry or a related discipline and will have experience in general protein/peptide/lipid chemistries with additional experience in one or more of the following areas: ELISA, cell culture, protein purification, spectroscopies, kinetics, and immunoassay. We seek an individual with up-to-date bench skills who has the ability to work well in a team oriented environment.

CBI is a preclinical contract research organization which offers a comprehensive array of technologies. We offer an excellent benefits package; salary is commensurate with experience and background. Send résumé and cover letter, and the names of three references, to: **Director of Human Resources, 601 Biotech Drive, Richmond, VA 23235**. FAX: 804-648-2641; e-mail: hr@cbi-biotech.com; website: <http://www.cbi-biotech.com>. *CBI is an Equal Opportunity Employer.*

NEUROPHYSIOLOGIST BIOMEDICAL ENGINEER

A prestigious private institute, internationally recognized as innovators in neural prostheses, seeks a Ph.D. with training in electrical stimulation/recording in the central nervous system to participate in the development of neural prosthetic devices for spinal cord injury patients. The applicant must have experience performing survival neurosurgical procedures in either cats, dogs, or primates. The candidate must have a record of productivity and the potential to develop an extramurally funded program in his area of research. *Candidates must be U.S. citizens or permanent residents.* Contact: **William F. Agnew, Ph.D., Huntington Medical Research Institutes, Neurological Research Laboratories, 734 Fairmount Avenue, Pasadena, CA 91105**. Telephone: 626-397-5442; FAX: 626-397-3751; e-mail: agneww@hmri.org. *Huntington Medical Research Institutes is an Affirmative Action/Equal Opportunity Employer.*

**FRANK SMATHERS, Jr.,
CHAIR IN TROPICAL TREE BIOLOGY
UNIVERSITY OF MIAMI**

The Department of Biology invites applications from and nominations of distinguished scientists to fill a newly endowed chair at the rank of full professor. We seek an internationally recognized botanist whose research concerns the biology of tropical trees. The candidate must have a Ph.D. or equivalent degree, a strong record of obtaining external funds, and demonstrated ability to attract or supervise outstanding graduate and postdoctoral students. We seek a colleague who will direct a vigorous research program, and who will teach at graduate and undergraduate levels. Departmental strengths lie in Tropical Biology, Evolution, Ecology, and Behavior. The Department has a cooperative relationship with Fairchild Tropical Garden, and is a founding member of the Organization of Tropical Studies.

Applications will be reviewed beginning January 15, 2000. Applicants should send a statement of research interests and plans, curriculum vitae, three representative publications, and the names and addresses of three referees to:

**Dr. David P. Janos,
Tropical Tree Biology Search
Department of Biology
University of Miami
P.O. Box 249118
Coral Gables, FL 33124**

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

OREGON STATE UNIVERSITY

Director, for the Center for Gene Research and Biotechnology at Oregon State University, Corvallis, OR

Oregon State University in Corvallis seeks a Director for the Center for Gene Research and Biotechnology (CGRB). This center, the largest at OSU, provides scientific leadership and advanced technical services to 90 faculty from 18 departments. The CGRB's mission is to foster creative scientific activity among a diverse faculty that share a common interest in molecular biology and related discipline. The appointee will direct a vigorous, externally funded research program and will organize multi-investigator research initiatives. The director serves under the Vice Provost for Research and directs an administrative staff and a technical staff that provide biological computing, gene sequencing and advanced microscopy services. Successful experience with federal institutional/block grants, industrial partnerships and/or technology transfer are desirable qualities. Professorial rank will be assigned depending on qualifications. OSU, a Land, Sea and Space Grant university, is ranked as a Carnegie I research institution. Further information about the CGRB and OSU can be obtained from the Center web site (<http://osu.orst.edu/dept/cgrb/>). Salary and start-up package will be competitive and commensurate with the appointee's experience and qualifications. Review of applications will begin on Dec. 1 and continue until the position is filled. OSU is an AA/EEO employer and has a policy of being responsive to dual-career needs.

MINIMUM QUALIFICATIONS:

- Ph.D. in molecular biology or a related discipline.
- A distinguished record of scientific publications in top-tier journals, and evidence of scientific impact (citations and awards).
- Evidence of leadership and experience in leading complex multidisciplinary programs in the academic or industrial environments.
- Experience obtaining federal, foundation, and industry grants.
- Evidence of ability to communicate and interact effectively with colleagues, university administrators, students and the general public.

To apply, send a complete curriculum vitae, statement of research interests, and the names, addresses and phone numbers of four references to:

**Stephen Giovannoni, Chair of Search Committee
Center for Gene Research and Biotechnology
3021 Agricultural & Life Sciences Bldg.
Oregon State University
Corvallis OR 97331-7303**



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Technical Support Scientist. Responsibilities include providing technical support for all products at QIAGEN which include nucleic acid purification, protein expression and purification, amplification enzymes and transfection products, as well as support for any related applications. Additional duties include providing technical and non-technical training, writing and editing technical literature, giving seminars and workshops, and attending scientific meetings. Some travel may be required. M.S./Ph.D. degree in molecular biology or related discipline and at least 2 years of laboratory experience required. Broad molecular biology experience and outstanding verbal and written communication skills required. Experience in molecular diagnostics, plant molecular biology, transfection, recombinant protein expression and purification is desirable. (Reference TSS-1099).

Send resume to: **QIAGEN Inc., (Ref. TSS-1099) HR Dept., 28159 Avenue Stanford, Valencia CA 91366. Fax to: (661) 295-7963. No calls, please.**

THE NATIONAL ACADEMIES

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Christine Mirzayan Internship Program

The Christine Mirzayan Internship Program of the National Academies is designed to engage graduate and postdoctoral science, engineering, medical, veterinary, business, and law students in science and technology policy and to familiarize them with the interactions between science, technology, and government. As a result, students develop essential skills different from those attained in academia and make the transition from being a graduate student to a professional.

For the year 2000, the internship program will commence in both January (for 12 weeks, January 18-April 7) and June (for 10 weeks, June 5-August 11).

To apply, candidates should submit the application and one letter of reference, both available on-line at national-academies.org/internship.

The deadline for receipt of materials is December 1 for the January 2000 program and March 1 for the June 2000 program.

Details are on our website:
national-academies.org/internship

Additional questions should be directed to:
internship@nas.edu



INTERN WITH EINSTEIN

POSITIONS OPEN

POSTDOCTORAL FELLOWS IN MOLECULAR GENETICS AND BIOLOGY OF CANCER

The Stanley S. Scott Cancer Center at Louisiana State University Health Sciences Center in New Orleans has immediate openings for several Postdoctoral positions in the Department of Biochemistry and Molecular Biology. A description of the department along with representative publications from each laboratory may be found at the website: <http://www.lsumc.edu/campus/bioc/default.htm>.

Jay D. Hunt, Ph.D. (e-mail: jhunt@lsumc.edu). The fellow will work on angiogenesis inhibition therapy involving a novel class of compounds involved in the antagonism of molecular signaling cascades. Experience in molecular and cellular biology techniques is required.

Kevin D. Brown, Ph.D. (e-mail: kbrown1@lsumc.edu). The fellow will be involved in projects aimed at elucidating the function of the ATM (ataxia-telangiectasia, mutated) protein and investigating ATM-dependent pathways that are activated following genome damage. Experience in molecular and cellular biology techniques is required.

Mark A. Batzer, Ph.D. (e-mail: mbatze@lsumc.edu). The fellow will conduct research involving the impact of mobile elements on the human genome. These studies will address the rate and mode of mobile element amplification, and the stability of these elements following integration into the genome.

Competitive salaries, commensurate with experience, are offered. Interested individuals should send a curriculum vitae and the names and addresses of three references to the potential mentor by e-mail or: Department of Biochemistry and Molecular Biology, Louisiana State University Health Sciences Center, 1901 Perdido Street, P7-2, New Orleans, LA 70112.

RESEARCH ASSISTANT PROFESSOR or POSTDOCTORAL POSITION. Join a research group focused upon elucidating pathways of signal transduction and mechanisms that regulate membrane trafficking, in the context of insulin action. Level of appointment will depend upon prior experience. Please send your curriculum vitae and the names of three references, together with their telephone numbers, to: Professor Gustav E. Lienhard, Department of Biochemistry, Vail Building, Dartmouth Medical School, Hanover, NH 03755-3844. E-mail: gustav.e.lienhard@dartmouth.edu.

POSTDOCTORAL FELLOW PROTEIN STRUCTURE/FUNCTION

Projects to investigate the mechanism and regulation of motor protein function, using a combination of biochemical, mutational, and crystallographic strategies. Strength in at least one of these areas required, opportunity for training in the others. Competitive salaries. Send curriculum vitae to: Dr. Kathleen Trybus, University of Vermont, Given E-205, Burlington, VT 05405. E-mail: trybus@salus.med.uvm.edu.

POSTDOCTORAL POSITIONS available to carry out protein engineering of antibodies and T cell receptors. Experience in biophysical techniques and/or molecular immunology preferred. Please send curriculum vitae and details of three referees to: Dr. E. Sally Ward, Center for Immunology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-8576, USA. E-mail: sally@skylab.swmed.edu.

POSTDOCTORAL POSITION immediately available to study light perception, signaling, and circadian rhythms in Arabidopsis. Experience in biochemistry and molecular genetics is desired. Interested candidates should send their curriculum vitae and two letters of reference to: Anthony Cashmore, Plant Science Institute, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104-6018. E-mail: cashmore@sas.upenn.edu.

POSITIONS OPEN

POSTDOCTORAL POSITIONS NEUROBIOLOGY OF PAIN

The laboratories of **Donna L. Hammond** and **Herbert K. Proudfit** will relocate to the Departments of Anesthesia and Pharmacology, respectively, at the University of Iowa in February 2000. Opportunities exist at the Junior and Senior Postdoctoral level to join our multidisciplinary research programs in newly renovated laboratory and office space. We are interested in individuals with expertise in behavioral pharmacology, *in vivo* extracellular recording, electron microscopy, *in situ* hybridization histochemistry and immunohistochemistry, tract tracing, patch-clamp recording in brain slices, quantitation of neurotransmitters, or molecular biological techniques. Those who join our laboratory will have the opportunity to conduct independent and collaborative research, as well as to benefit from their association with a large consortium of pain scientists that includes the laboratories of **Gerald Gebhart**, **Tim Brennan**, **Kathleen Sluka**, and **Ken Follett**. Candidates with a Ph.D. and/or M.D. should submit their curriculum vitae and a brief statement of research accomplishments to: Dr. Donna L. Hammond, Department of Anesthesia and Critical Care, University of Chicago, 5841 South Maryland Avenue M/C 4028, Chicago, IL 60637. After March 1, 2000, applications should be mailed to: Dr. Donna L. Hammond, Department of Anesthesia JCP 6505-2, University of Iowa, 200 Hawkins Drive, Iowa City, IA 52242. The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION IN BIOMATERIALS AND TISSUE ENGINEERING

A two-year position is available to initiate development of porous scaffolds in tissue engineering. This is a joint project between National Science Foundation Engineering Research Centers at the University of Washington Engineered Biomaterials (Seattle) and the Georgia Tech/Emory Center for The Engineering of Living Tissues (Atlanta). The applicant would be expected to spend substantial time at both sites. A Ph.D. and strong experience in biomedical polymers and/or tissue engineering with excellent communication skills are required. Submit names of references with a curriculum vitae to: Professor Buddy D. Ratner, University of Washington Engineered Biomaterials, University of Washington, Box 351720, Seattle, WA 98195-1720. Both institutions are Equal Opportunity Employers.

POSTDOCTORAL FELLOWSHIP for research on the use of marrow stromal cells for cell and gene therapy of diseases of the skeleton and central nervous system. Applicants must have Ph.D. degrees from recognized universities, considerable relevant experience, and strong recommendations. Competitive salary. Send curriculum vitae and letters of recommendation to: Dr. Darwin J. Prockop, Center for Gene Therapy, MCP Hahnemann University, 10118 New College Building, 245 North 15th Street, Mail Stop 421, Philadelphia, PA 19102-1192. FAX: 215-762-7408. Equal Opportunity Employer.

Harvard Medical School. **POSTDOCTORAL RESEARCH POSITIONS** in biological/social psychiatry. Research training in neuro- and psychobiological areas with integrative seminar for Ph.D.'s and M.D.'s who are U.S. citizens or permanent residents. Deadline December 31, 1999. Contact: Clinical Research Training Program, Science, Judge Baker Children's Center, 3 Blackfan Circle, Boston, MA 02115. Telephone: 617-232-8390, ext. 2559; e-mail: crtp@jbcc.harvard.edu. Minorities and M.D.'s encouraged to apply.

POSITIONS OPEN

POSTDOCTORAL ASSOCIATE. National Center for Ecological Analysis and Synthesis (NCEAS), University of California, Santa Barbara to participate in a working group to merge perspectives and data from ecological, historical, and paleontological time scales. Coordinator for group is **Jeremy Jackson** (Scripps Institution of Oceanography). For more information, see the Research Projects section of NCEAS's website: <http://www.nceas.ucsb.edu> under Jackson and "The Long-Term Ecological Records of Marine Environments, Populations and Communities."

Responsibilities: assembling and analyzing retrospective and contemporary data. Programming and data management experience is highly desirable. Ph.D. or related research experience required. Position is for one year with second year possible. Consideration of applications begins immediately and will continue until the position is filled. The desired start date is January 1, 2000. To apply, send letter of application with a statement of research interest, selected publications, curriculum vitae, and the names (with e-mail addresses) of three referees. Applications should be directed to: Dr. Sandy Andelman, NCEAS, 735 State Street, Suite 300, Santa Barbara, CA 93101-5504. By e-mail: postapp@nceas.ucsb.edu (with Marine Records in subject field). Note: NCEAS solicits proposals twice a year for research activities, including working groups, sabbatical fellows, and postdoctoral associates. Next deadline: January 5, 2000. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS IN CANCER BIOLOGY

A group of funded Investigators in an interthematic program in cancer biology at Albany Medical Center is seeking applicants for Postdoctoral training. Active areas of investigation include signal transduction, cell cycle control, stem cell biology, carcinogenesis, viral transformation, DNA repair, angiogenesis, apoptosis, free radicals and tumor growth, and effect of circadian rhythms on tumor therapy. A Ph.D. in a related area of investigation within the last three years, or soon to be completed, is required. The ability to obtain a DOE "Q" clearance for U.S. citizenship is preferred. For consideration, please submit a résumé, publications list, undergraduate and graduate transcripts, along with a cover letter outlining current research projects, to: Ester Brisson, MC-81, Albany Medical College, 47 New Scotland Avenue, Albany, NY 12208-3479. Letters of recommendation will be requested after initial review.

Up to five **POSTDOCTORAL POSITIONS** are available immediately to study the molecular regulation and cellular functions of human protein phosphatases (PPases). Successful applicants will have an outstanding research opportunity with access to a proprietary technology affording the specific inhibition of individual human PPases. Applicants must have experience in molecular biology, and a background in ser/thr protein phosphatases, cell signaling, and techniques used in human-tissue culture is highly desired. Send curriculum vitae and three letters of reference to: Dr. R. E. Honkanen, MSB 2362, Department of Biochemistry and Molecular Biology, College of Medicine, University of South Alabama, Mobile, AL 36688. E-mail: honkanen@sungec.usouthal.edu.

POSTDOCTORAL POSITION UNIVERSITY OF CALIFORNIA SAN FRANCISCO

Immediately available for a NIH-funded study. We work on the proteasome, the major neutral protease of the cell, which carries out degradation of short-lived proteins of regulatory importance. Our laboratory studies proteasomes in animal cells, trypanosomes, and yeast. Experience in molecular biology and biochemistry required. Contact: Dr. Philip Coffino, Department of Microbiology, Box 0414, University of California, San Francisco, CA 94143. E-mail: pcoffin@itsa.ucsf.edu.

ASSISTANT PROFESSOR OF BIOCHEMISTRY
University of Arizona, Tucson

The Department of Biochemistry at the University of Arizona invites applications from outstanding candidates for a tenure track faculty position in the area of macromolecular structure and function. The position is part of a larger plan to strengthen this area of biochemistry within our department. It is anticipated that a number of additional appointments will be made over the next several years. The University of Arizona and the Biochemistry Department offer excellent facilities and a supportive collegial environment to foster development of exceptional academic careers. A start-up package for equipment and other resources is in place. The successful candidate will be expected to develop an outstanding research program, and to display a commitment to teaching excellence. The University Department of Biochemistry is responsible for the undergraduate biochemistry degree, participates in the training of medical students, and plays a major role in the graduate program in Biochemistry and Molecular and Cellular Biology. Visit our website at www.biochem.arizona.edu or www.hr.arizona.edu for more information.

Evaluation of applications will begin on November 15, 1999, and will continue until the position is filled. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. Letters of application, together with a curriculum vitae, bibliography and a three-page description of future research, plus three letters of recommendation sent under separate cover, should be addressed to:

Chair, Biochemistry Faculty Search Committee
c/o Helen Markes
Department of Biochemistry
BioSciences West Bldg., 357
P O Box 210088
The University of Arizona
Tucson, AZ 85721-0088

The University of Arizona is an EEO/AA Employer - M/D/W/V

HEAD, DEPARTMENT OF BIOCHEMISTRY
Purdue University

Applications are invited for the position of Department Head from dynamic individuals with a creative vision of modern biochemistry. The Department has 18 full-time faculty and educational programs leading to B.S., M.S. and Ph.D. degrees. NIH-, NSF- and ACS- supported research encompasses a variety of topics including protein structure and function, signal transduction, mechanisms of enzyme catalysis, RNA structure and processing, regulation of gene expression, plant development and metabolism. Department faculty participate in NIH- and NSF-funded interdepartmental training programs in Biochemistry and Molecular Biology, Genetics, Biophysics, Plant Biology and Neurobiology. Campus resources include an NCI-designated Cancer Center, a transgenic animal facility and a genomics facility.

The administration is committed to the continued development of this interactive, internationally recognized department. The successful candidate will have an outstanding record of scholarly achievement with an extramurally funded research program and a commitment to teaching excellence. Strong interpersonal, communication, decision-making, and administrative skills are required. Candidates must have a Ph.D. or equivalent degree and be eligible for tenure at the rank of professor. There will be an opportunity to recruit several new faculty over the next three years and a competitive package in the area of recruitment and resources is available.

Qualified persons should submit: a letter of application, a statement of research, teaching and administrative philosophy, complete curriculum vitae with addresses, and telephone numbers of five references. Applications will be reviewed beginning November 4, 1999 and will continue until the position is filled. Send applications, nominations, and inquiries to:

Professor Ronald Somerville, Chair, Biochemistry Department Head Search Committee, 1140 AGAD Building, Purdue University, West Lafayette, IN 47907-1140, Phone: (765) 494-1614, Fax: (765) 494-7420. <http://www.biochem.purdue.edu>.

Purdue University is an equal opportunity/affirmative action employer.

**FACILITY DIRECTOR,
CONFOCAL MICROSCOPY**

The National Cancer Institute is paving the way for new programs and discoveries at the Frederick Cancer Research and Development Center (NCI-FCRDC) located in scenic Frederick, MD. Escape the "grant writing treadmill" and enter an environment dedicated to research with very strong support services. We are seeking an experienced researcher to manage an advanced core microscopy facility designed to provide high-resolution fluorescence microscopy expertise and services to FCRDC investigators through numerous collaborations.

SAIC Frederick, as the Operations and Technical Support (OTS) contractor at the FCRDC, will be responsible for management of this core facility. We are a leading-edge biotechnology organization dedicated to development of knowledge and tools for diagnosis, treatment and prevention of human cancer and AIDS. As part of the SAIC team, you will work closely with colleagues of distinguished reputation in the most progressive research environments, where creative research equipment, including quantitative light microscopy, visible and UV laser scanning confocal microscopy, multiphoton imaging, and state-of-the-art high-performance computing tools for image analysis, will be at your disposal.

The Facility Director will be responsible for recruiting, training and overseeing necessary technical support personnel. The ideal candidate will have a PhD degree with an outstanding cell biology/ ultrastructure background and be experienced in the operation and application of quantitative light microscopy techniques, including fluorescence recovery after photobleaching (FRAP) and fluorescence resonance energy transfer (FRET). Opportunities to pursue technology development and other research interests will be provided.

Explore this challenging opportunity and check out our Web site at: <http://saic.ncifcrf.gov>. Submit your CV, bibliography and references, in confidence, to: Barbara Norton-Gill, Technical Recruiter, **SAIC Frederick**, PO Box B, Frederick, MD 21702-1201, or e-mail: hr@mail.ncifcrf.gov

"We value cultural diversity in the workplace."



SAIC Frederick

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A Division of Science Applications
International Corporation

AA/EOE

M/F/D/V

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP is available at University of California, San Francisco starting January 2000 to study the influence of urokinase receptors on integrin function in select *in vivo* models relevant to inflammation and tumor metastasis. The projects will use structural/functional studies of integrin and urokinase receptor interactions *in vitro* and transgenic/knockout approaches *in vivo* to understand the basis for the synergistic relationship between urokinase receptors and integrins in cell migration. Qualified candidates should have experience in molecular and cellular biology and preferably in mouse biology. Send curriculum vitae to: **Harold A. Chapman, M.D., Cardiovascular Research Institute, University of California, San Francisco, CA 94143. FAX: 415-476-5712; E-mail: hachap@itsa.ucsf.edu.**

The University of California, San Francisco is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

AAV BIOLOGY AND GENE THERAPY JOHN A. CHIORINI, PH.D.

POSTDOCTORAL POSITIONS are available to study adeno-associated virus (AAV). Current research projects include the characterization of different serotypes of AAV, their use as vectors for gene therapy, and the interaction of the AAV Rep proteins with host cell regulatory factors. Please send cover letter, curriculum vitae, bibliography, and three letters of recommendation to: **Gene Therapy and Therapeutics Branch, NIDCR, Building 10 Room 1N113, 10 Center Drive MSC 1190, Bethesda, MD 20892-1190, USA. E-mail: jchiorini@dir.nidcr.nih.gov.**

POSTDOCTORAL RESEARCH ASSOCIATE

A qualified Ph.D. is sought with molecular biology experience to study endoderm and pancreatic islet differentiation using embryonic stem cells, including mouse, primate, and human ES cells. One to two years of postdoctoral training with experience writing grants is desirable. We offer a competitive salary and fringe benefit package. Please submit curriculum vitae with names and addresses of three references to: **Dr. Jon Odorico, Department of Surgery, University of Wisconsin Clinical Science Center, 600 Highland Avenue, Madison, WI 53792. FAX: 608-262-0430; e-mail: jon@tx.surgery.wisc.edu.**

A **POSTDOCTORAL POSITION** is available to study gene regulation and function in mammalian epidermal and reproductive differentiation. Candidate should hold a recent Ph.D. degree with a strong background in molecular biology and biochemistry. Experience in mouse genetics is preferred. Qualified candidates should send a letter of interest, curriculum vitae, and names of three references to: **Dr. Xing Dai, Department of Biological Chemistry, D240 Medical Sciences I, University of California, Irvine, CA 92697-1700. FAX: 949-824-2688; e-mail: xdai@uci.edu. University of California, Irvine is an Equal Opportunity Employer committed to excellence through diversity.**

POSTDOCTORAL POSITION in aging research to study molecular mechanisms of age-related muscle atrophy. Projects involve the study of free-radical metabolism and antioxidant defenses (with a focus on transgenic and knockout mice), IGF-I signaling, and muscle cell apoptosis. Experience in cell and molecular biology is essential. Send curriculum vitae and three letters of reference to: **Thomas A. Rando, M.D., Ph.D., Department of Neurology, Stanford University School of Medicine, Stanford, CA 94305-5235. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS available in ultrasonic drug delivery systems beginning January 2000 at the Department of Chemical Engineering at University of California, Santa Barbara. Prior experience with drug delivery or medical ultrasound preferred. For more information contact: **Professor Samir Mitragotri, (present address) E25-342, Massachusetts Institute of Technology, 45 Carleton Street, Cambridge, MA 02139. E-mail: samir@mit.edu.**

POSITIONS OPEN

INTERESTED IN CLINICAL OR POSTDOCTORAL RESEARCH TRAINING?

The National Institutes of Health has both! For more information, visit our website which lists an array of clinical and postdoctoral opportunities, including tenure-track positions.
http://www.training.nih.gov
The NIH is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITIONS IN NEUROSCIENCE PRINCETON UNIVERSITY

Positions are available for the development and use of two-photon methods to probe single synaptic connections and functioning neural circuits. A major goal is to understand cellular mechanisms of learning and memory. Successful candidates will have strength in one of the following areas and a desire to learn in the others: optics or other experimental physics; microscopy; brain slice physiology; use of caged compounds; and computational modeling. Candidates should be open to new methods and unexpected research directions. The laboratory is in a strong, collegial biology department, with collaborative opportunities in biophysics, genetics, and development. Send applications to: **Dr. Samuel S.-H. Wang, Department of Molecular Biology, Princeton University, Princeton, NJ 08544. E-mail: samwang@molbio.princeton.edu. Princeton University is an Equal Opportunity/Affirmative Action Employer.**

CLEVELAND CLINIC

A funded **POSTDOCTORAL POSITION** is available to study the vitamin K-dependent gamma carboxylase, an enzyme essential for blood clotting and bone development, and a target of anti-coagulant therapies. A Ph.D. is required, and experience in biochemistry or a related field is desired. The projects available offer a broad-based training in protein secretion, structure-function, and regulation using both biochemical and molecular biological approaches and the state-of-the-art facilities in the new Lerner Research Institute (see website: www.ri.ccf.org/ri/pi/berknek.html). Candidates should send a curriculum vitae and telephone numbers for three references to: **Dr. Kathleen Berkner, Department of Molecular Cardiology/NB50, Lerner Research Institute, Cleveland Clinic, 9500 Euclid Avenue, Cleveland, OH 44195. FAX: 216-444-9263; e-mail: berknek@ccf.org.**

POSTDOCTORAL POSITION ANGIOGENESIS AND HEMATOPOIESIS

The Department of Oncology at the Johns Hopkins University School of Medicine has a Postdoctoral position available for the study of interactions between the hematopoietic and endothelial systems, and mechanisms regulating leukemogenesis/tumorigenesis. Candidates should have a background in molecular biology and biochemistry. Experience with tissue culture and mouse models preferred. Good verbal and writing skills are essential. Applicants should send a curriculum vitae and three letters of reference to: **Dr. Mary Jo Fackler, Johns Hopkins Oncology Center, 418 North Bond Street, Room B315, Baltimore, MD 21231. E-mail: mfackler@jhmi.edu. An Equal Opportunity/Affirmative Action/ADA Employer. Qualified women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION to work on (i) the role of p300/CBP family proteins in cell cycle regulation and other cellular functions and/or (ii) transcription factor networking in breast epithelial cell proliferation and mammary gland development. For recent publications see: *MCB* 18:4565-76, 1998; *JBC* 274:17342-52, 1999; *Gene Therapy* 6:854-64, 1999. Please contact: **Dr. Bayar Thimmapaya, Cancer Center, Olson 8452, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Telephone: 312-503-5224; FAX: 312-908-1372; e-mail: b-thimmapaya@nwu.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION CELLULAR AND MOLECULAR PHARMACOLOGY

A Postdoctoral position is available to study neurophysiological alterations produced in brain neurons as a result of cocaine addiction. Dopamine receptor modulation of voltage sensitive channels and synaptic potentials are two major areas of emphasis. Experience in brain slice and whole-cell recordings is required. Applicants should send a curriculum vitae and the names of three references to: **Francis J. White, Ph.D., Professor and Chair, Department of Cellular and Molecular Pharmacology, Finch University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064-3095. E-mail: Francis.White@finchcms.edu.**

Finch University of Health Sciences/The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH VASCULAR BIOLOGY AND DISEASE

POSTDOCTORAL POSITIONS available to investigate the role of key coagulation and fibrinolytic factors in tissue remodeling/repair, inflammatory response, and disease progression. These studies will focus on *in vivo* model systems, particularly gene-targeted mice either lacking or expressing altered forms of soluble and cell-associated hemostatic factors.

Experience in molecular and vascular biology, mouse genetics, and histopathology is an advantage, but all interested candidates are encouraged to apply. Please submit a curriculum vitae and three references to: **J. L. Degen, Ph.D., Division of Developmental Biology, Children's Hospital Research Foundation, TCHRF Room 2042, 3333 Burnet Avenue, Cincinnati, Ohio 45229-3039. E-mail: vascular@chmcc.org. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN GENE-BASED THERAPY

A Postdoctoral position is available immediately to study NF2 gene function in Schwann cell differentiation. Areas of interest include: Schwann cell biology, myelination, transcriptional gene regulation, signal transduction, viral-vector mediated gene transfer, and neuronal Schwann cell coculture. Candidates should have a Ph.D. and a background in cell and/or molecular biology. Experience in Schwann cell culture preferred. Send curriculum vitae and three references to: **Gene Hung, M.D., House Ear Institute, 2100 West 3rd Street, Los Angeles, CA 90057. E-mail: ghung@hei.org; FAX: 213-273-8088.**

Two **POSTDOCTORAL POSITIONS** in neurobiology. To study (1) regulation of ion channel expression and subcellular targeting in the hippocampus and (2) sensory transduction of mammalian pheromones. Studies will involve a combination of molecular biology, biolistic transfection of neurons, confocal microscopy, and patch-clamp recording. See: *Neuron* 23:149-157; *PNAS* 96(10):5791-6; *Neuron* 13: 611-621. Please send curriculum vitae and three letters of recommendation to: (1) **Dr. Don Arnold** or (2) **Dr. Emily Liman, Department of Biology, SHS 172, University of Southern California, Los Angeles, CA 90089-1340. E-mail: liman@usc.edu or darnold@usc.edu. An Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS. (1) Developmental study of central nervous system neurons, sensory ganglion, and receptors in co-culture and transplantation experiments; (2) Plastic/regulatory changes in channels and receptors in degeneration and growth of synaptic endings in the central nervous system. Cell/molecular methods, immuno EM and confocal microscopy, cell culture, patch clamp. Project direction flexible, including transgenic mice; funded for vertebrate auditory system. Competitive salary. U.S. citizen/permanent resident. Website: <http://www3.uchc.edu/nsinfo/DKM.html>. Contact: **D. K. Morest, University of Connecticut Health Center, Farmington, CT 06030-3405.**

DIRECTOR OF THE MEDICAL SCHOLARS PROGRAM & ASSOCIATE DEAN IN THE COLLEGE OF MEDICINE AT URBANA-CHAMPAIGN

The University of Illinois at Chicago invites nominations and applications for the position of Director of the Medical Scholars Program and Associate Dean in the College of Medicine at Urbana-Champaign (COM-UC). The Director of the Medical Scholars Program and Associate Dean is responsible for oversight of the medical school curriculum and the administration of the Medical Scholars Program. This position reports to the Regional Dean of the College of Medicine at Urbana-Champaign. The University of Illinois at Chicago College of Medicine is the largest medical school in the nation with four geographically separate sites. The site at Urbana-Champaign, situated on the campus of one of the nation's leading research institutions, supports a well-established Medical Scholars Program (granting the MD in combination with the PhD, JD, or MBA) with strong ties to departments in the humanities, social sciences, engineering, as well as to the basic medical sciences. The MSP is the programmatic core of the College of Medicine Urbana site, and currently supports 172 students who are working towards degrees in over 38 programs. Approximately 25 Medical Scholars students enter the program each year and all students receive their clinical training at local, affiliated hospitals (1,090 beds). The COM-UC basic science faculty maintain vigorous, well-funded research programs. The University of Illinois at Urbana-Champaign is expanding its programs in biotechnology which thrive in an exceptional environment for basic and clinically-oriented research, including campus-level biotechnology research facilities, the Beckman Institute for Advanced Science and Technology, and the NSF-supported National Center for Supercomputing Applications.

Preference will be given to a candidate with the following qualifications: an MD/PhD, MD, or DO degree; the credentials to qualify as a tenured professor including an active, funded research program; administrative experience; ability to recognize and support excellence in research; commitment to both medical and graduate education; ability to relate effectively with the academic communities on the Urbana-Champaign campus; and demonstrated abilities in the acquisition of external funding. We are seeking a dynamic individual interested in leading a vigorous and diverse program engaged in innovative approaches to combined medical and graduate education.

Salary is negotiable. The position is available as soon as possible. Nominations are encouraged. Applications will be held in strict confidence. Informal interviews may be held before the closing date for applications.

To be assured of full consideration, applications (including vita and the names, addresses, and telephone numbers of three references) should be received by January 15, 2000 and sent to:

Dr. Philip Best, Chair
Search Committee for MSP Director
Attention: Antoinette Warner (217/333-6524)
College of Medicine at Urbana-Champaign
506 S. Mathews
Urbana, IL 61801

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

For additional information visit: <http://www.med.uiuc.edu/>

FACULTY POSITIONS

**Department of Microbiology and Immunology,
Department of Biomedical Engineering, and
Center for Infectious Diseases**

**The University of North Carolina at Chapel Hill
BIOINFORMATICS/GENOMICS and BACTERIAL
PATHOGENESIS**

Applications are invited for two tenure-track or tenured faculty appointments in the School of Medicine of The University of North Carolina at Chapel Hill, beginning summer 2000, in Bioinformatics/Genomics and Bacterial Pathogenesis.

Bioinformatics/Genomics: We seek candidates with expertise in the development of genomic analysis tools and/or application of such tools to biological problems. This position will be a joint appointment in the Departments of Biomedical Engineering (<http://www.bme.unc.edu/>) and Microbiology and Immunology (<http://www.med.unc.edu/wrkunits/2depts/microimm/>), and will include responsibility for teaching in one or both of those departments. The primary appointment will depend on the expertise of the candidate, and can be at the Assistant, Associate, or Full Professor level, depending on the candidate's experience. Preference will be given to candidates whose focus is on prokaryotes.

Bacterial Pathogenesis: Candidates for this position should have expertise in the area of bacterial pathogenesis and/or host responses to bacterial infection and should be prepared to participate in teaching medical microbiology and bacterial pathogenesis to graduate students and medical students. The appointment will be in the Department of Microbiology and Immunology and can be at the level of Assistant Professor or Associate Professor, depending on the candidate's experience. The Department has a strong program in bacterial genetics and molecular pathogenesis. The successful candidate will also become a member of the newly formed Center for Infectious Diseases, which brings together investigators from the Department, the Division of Infectious Diseases, and the School of Public Health who share interests in infectious disease pathogenesis, epidemiology, and prevention.

For both positions, the successful candidates will be expected to develop and/or maintain outstanding independent research programs and to excel in teaching. A doctoral degree, relevant postdoctoral experience, and a strong publication record are required. Candidates for appointment at the Associate Professor or Full Professor level should have a record of productive research supported by extramural funding.

Applicants should send curriculum vitae, statement of research interests and future plans, representative reprints, and arrange to have three letters of reference sent to the appropriate Search Committee Chair. Bioinformatics: Dr. Marshall Edgell; Bacterial Pathogenesis: Dr. Janne Cannon. Mailing address: Department of Microbiology and Immunology, CB# 7290, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. Preference will be given to candidates whose applications are complete before December 6, 1999. *Women and minorities are encouraged to apply and to identify themselves. The University of North Carolina at Chapel Hill is an Equal Opportunity Employer.*

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP AND/OR RESEARCH ASSOCIATE POSITIONS

Molecular Retrovirology The Center for Human Virology

Postdoctoral or Research Associate positions are now available in the fields of molecular retrovirology. Studies will include: (1) molecular and immune-based approaches to combat HIV-1 infection; (2) investigations into the pathogenesis and therapeutics of molecular reservoirs and latency in HIV-1 infection, during highly active anti-retroviral therapy (HAART), towards viral eradication.

The Center for Human Virology is interdepartmental and consists of multiple researchers interested in several pathogenic viral diseases affecting humans. Studies address retroviral pathogenesis, viral regulatory proteins, neuropathogenesis, vector design, and recombinant vaccine development.

The successful candidates will have a Ph.D. and/or M.D. degree and previous expertise in virology. Please send curriculum vitae, a short letter describing previous research experience, and names of three references to: **Dr. Roger J. Pomerantz, Professor of Medicine, Biochemistry, and Molecular Pharmacology, Director, Center for Human Virology, Chief, Division of Infectious Diseases, Thomas Jefferson University, Jefferson Alumni Hall, 1020 Locust Street, Suite 329, Philadelphia, PA 19107-6799. FAX: 215-923-1956; e-mail: roger.j.pomerantz@mail.tju.edu. An Affirmative Action/Equal Employment Opportunity Employer.**

TEMPLE UNIVERSITY

POSTDOCTORAL RESEARCH ASSOCIATE. A NIH-funded Postdoctoral Research Associate position is available immediately in the Department of Pathology and Laboratory Medicine to study signal transduction pathways associated with mechanisms of anticancer drug action. Candidate should have a Ph.D. and an extensive experience in molecular biology techniques including PCR/RT-PCR, analysis of differential gene expression, blotting, cloning, DNA sequencing, transfection, analysis of recombinant protein expression/activity, and a working knowledge of *in vitro* cell culture. Please apply with your curriculum vitae, including names and telephone numbers of three references, to: **Hemant Parekh, Ph.D., Department of Pathology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. FAX: 215-707-2781. Temple University is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.**

UNIVERSITY OF PENNSYLVANIA

Our laboratory has several **POSTDOCTORAL POSITIONS** and a **LABORATORY TECHNICIAN** position available on projects dealing with (1) NMR studies of mouse and human tumors, (2) near-infrared studies of tumors, (3) ^{23}Na NMR studies of cystic fibrosis and hearts. Interested applicants should contact: **Dr. Glickson or Dr. Bansal, Department of Radiology, University of Pennsylvania School of Medicine, B1 Stellar-Chance Laboratories, 422 Curie Boulevard, Philadelphia, PA 19104. E-mail: glickson@mail.med.upenn.edu. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Qualified female and minority candidates are encouraged to apply.**

UNIVERSITY OF NEW HAMPSHIRE

POSTDOCTORAL POSITIONS are available to study a CCR4-NOT multi-protein complex involved in both the activation and repression of transcription in yeast. Candidates should have a strong background in biochemistry, molecular biology, or genetics. Send curriculum vitae and names of three references to: **Dr. Clyde L. Denis, Department of Biochemistry and Molecular Biology, University of New Hampshire, Durham, NH 03824. E-mail: cldenis@christa.unh.edu. University of New Hampshire encourages diversity among its employees.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS JOHNS HOPKINS ONCOLOGY CENTER

POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE positions available immediately to investigate novel approaches to augment the immune response to tumor antigens. Studies include targeting tumor antigens to the MHC class II antigen processing pathway, modification of peptide epitopes, and development of vaccine strategies post bone marrow transplantation. Experience in molecular biology, biochemistry, or cellular immunology preferred. Send curriculum vitae and names of three references to: **Dr. Allan D. Hess, Division of Immunology/Hematopoiesis, Oncology Center, The Johns Hopkins University, 600 North Wolfe Street, Room 3-127, Baltimore, MD 21287. E-mail: adhess@jhmi.edu.**

SCANNING (ATOMIC) PROBE MICROSCOPIST

The Great Lakes Nanotechnology Company is seeking one or more individuals to work in its Chicago laboratory on a recently patented product that allows the Scanning Force Microscope (SFM) to be a sensitive sensor of specific forces. This work is being done in conjunction with the University of Chicago. Ph.D., M.S., B.S., or similar will be considered. Experience in SFM desirable, as is a background in physics, biophysics, chemistry, and/or related areas. Mail or FAX résumés along with three references who may be contacted to: **Dr. Melvin Griem, Great Lakes Nanotechnology Company, 44 Sunset Trail, Ogden Dunes, IN 46368. FAX: 219-763-7996. Great Lakes is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS available to work on HIV vaccine development. Research is supported by newly funded NIH grants, as follows: (1) studies designed to develop and test novel virus-vector systems for DNA delivery to dendritic cells, and (2) studies designed to develop new approaches to enhance the antigen presenting and costimulatory functions of dendritic cells. Research will include the construction and use of virus vectors (cytomegalovirus, adenovirus), and the analysis of immune responses in animal model systems (mice). Send curriculum vitae and names of three references to: **Dr. Steve Dewhurst, Department of Microbiology, University of Rochester Medical Center, 601 Elmwood Avenue, Box 672, Rochester, NY 14642. E-mail: stephen_dewhurst@urmc.rochester.edu.**

POSTDOCTORAL ASSOCIATE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

Position available September 1999 to study transcriptional regulation of kidney development and kidney-specific gene expression. Experience in eukaryotic gene regulation desired. Send curriculum vitae and names of three references to: **Dr. Peter Igarashi, Chief, Division of Nephrology, University of Texas Southwestern, 5323 Harry Hines Boulevard, Dallas, TX 75235-8856. FAX: 214-648-2071. University of Texas Southwestern is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION is available immediately to study engraftment of human and murine hematopoietic stem cells after lethal irradiation of recipients. Applicants must have a strong background in cellular biology, a familiarity with extracellular markers, and experience in cell culturing. Send curriculum vitae and names and addresses of references to: **Professor Peter Mauch, M.D., Brigham and Women's Hospital, Department of Radiation Oncology, 75 Francis Street, ASB1, L2, Boston, MA 02115. FAX: 617-632-4115; e-mail: mauch@speedy.jrcr.harvard.edu.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP IN TRANSPLANTATION AND TUMOR IMMUNOLOGY

Postdoctoral Fellowship position immediately available in a NIH-funded laboratory in the Transplantation Immunology Section, Department of Blood and Marrow Transplantation at University of Texas M. D. Anderson Cancer Center. Studies will examine T cell immunity to human leukemia. Work will focus on both minor antigens and self tumor antigens as targets for use in adoptive cellular immunotherapy and vaccination of human leukemia. Experience in cellular immunology, including T cell culture techniques, and molecular biology is essential. Salary commensurate with experience and institutional guidelines.

Send curriculum vitae and names of three references to:

**Dr. Jeffrey Molldrem
Section of Transplantation Immunology
Department of Blood and
Marrow Transplantation
University of Texas M. D. Anderson
Cancer Center
1515 Holcombe Boulevard, Box 65
Houston, TX 77030
Telephone: 713-745-4372
FAX: 713-794-4747
E-mail: jmolldre@notes.mdacc.tmc.edu**

POSTDOCTORAL POSITION available immediately at Mayo Clinic Jacksonville to develop experimental models for neurodegenerative disorders with tau and synuclein abnormalities. Candidate with background in biochemistry, cell biology, or molecular biology is desirable. Applicant must have a Ph.D., M.D., or comparable degree. Send curriculum vitae and three references to: **Shu-Hui Yen, Ph.D., Mayo Clinic Jacksonville, 4500 San Pablo Road, Jacksonville, FL 32224. Telephone: 904-953-1066; FAX: 904-953-7117; e-mail: yen.shuhui@mayo.edu.**

POSTDOCTORAL POSITION available to study mechanisms of synaptic inhibition related to plasticity in the *in vitro* hippocampus. Experience with intracellular recordings required. Send curriculum vitae and names of three references to: **Dr. A. Stelzer, Department of Physiology and Pharmacology, SUNY Brooklyn, Health Science Center, Box 29, Brooklyn, NY 11203. Telephone: 718-270-3873; FAX: 718-270-2241; e-mail: astelzer@netmail.hscbklyn.edu.**

Affirmative Action/Equal Opportunity Employer.

EUROPEAN OPPORTUNITIES



EVAX Technologies AG is a biotechnology company located in Martinsried/Munich. The company focuses on the development of novel bacterial vaccines and is currently looking for a highly qualified

Molecular Biologist/Bacterial Geneticist.

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FACULTY POSITIONS IN STRUCTURAL BIOLOGY at the Institute of Life Sciences The Hebrew University

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For details contact (before December 15, 1999): Office of Chairperson, The Alexander Silberman Institute of Life Sciences, The Hebrew University of Jerusalem. E-mail: ruti@vms.huji.ac.il; FAX: 972-2-6586103.

FACULTY POSITION IN GENE THERAPY Hadassah Medical Organization Jerusalem, Israel

The Hadassah Medical Organization has recently established a new research and clinical center for molecular medicine and gene therapy. We invite applications for a faculty position with expertise in molecular biology and gene therapy. Candidates are required to have Ph.D. and/or M.D. degree and postdoctoral training, with proven excellence in research related to gene therapy. Send curriculum vitae, list of publications, three to five selected reprints, and three letters of recommendation addressed to the director of the Hadassah Medical Organization, Professor A. Israeli, to: Dr. E. Galun, Director, Goldyne Savad Gene Therapy Institute, Hadassah Medical Organization, P.O. Box 12000, 91120 Jerusalem, Israel no later than February 1, 2000. Inquiries may be sent to FAX: +972-2-6437712; e-mail: gtx@hadassah.org.il.

ANNOUNCEMENTS

The Center for Environmental Chemistry and Geochemistry of The Pennsylvania State University announces: The Biogeochemical Research Initiative for Education (BRIE). Funded by the National Science Foundation/IGERT program, BRIE will support 30 Ph.D., 5 Postdoctorate, and 30 Undergraduate **SUMMER STUDENTS** to investigate the biogeochemistry of extremophiles, biofilms, mineral interactions, organic compounds, and anoxic environments. Interested students can check website: <http://www.essc.psu.edu/BRIE> or write: L. Spangler, 248 Deike, University Park, PA 16802. E-mail: spangler@essc.psu.edu. Penn State is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. National Science Foundation/IGERT only funds U.S. citizens, nationals, or students with green cards.

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301 University Boulevard, Suite 3.350
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Telephone: 409-747-0377
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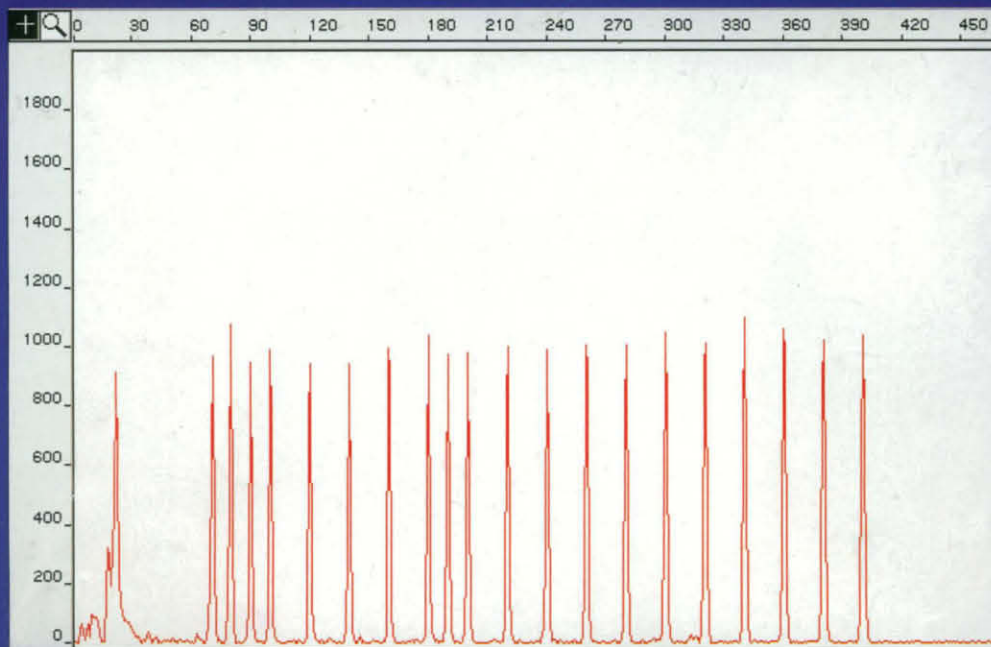
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