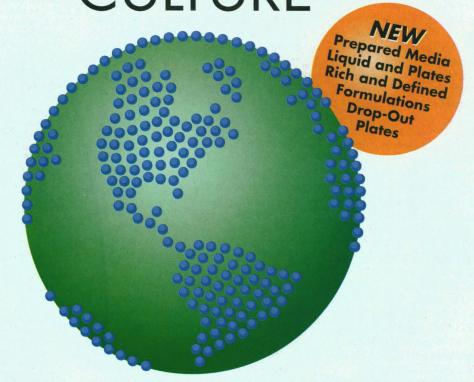


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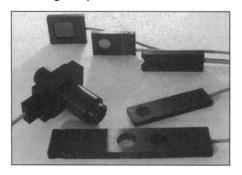
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LITERATURE

The RBI Handbook of Receptor Classification and Signal Transduction, 3rd Edition contains 85 charts containing the most current information on a wide range of re-

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and receptor subtype selective ligands as well as key radioligands. *Neurotransmissions* is a newsletter by the same manufacturer for researchers investigating cell signaling systems in the central and peripheral nervous systems.

Automated SNAr Reactions on the Nautilus 2400: Use of Chiron SynPhase Crowns in Directed Sorting is a note that describes an

application in which the automated power of the Nautilus 2400 for chemistry development and trial library generation is combined with the flexibility of Syn-Phase (surface-grafted modular supports) in directed sorting meth-

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Candidates must have a Ph.D. degree in a field related to biomedical engineering or science, be able to teach undergraduate and graduate courses, direct graduate student research, and establish a strong funded research

The College of Engineering, the University's flagship college, was recently ranked in the 1997-1998 Princeton Review among the top 105 graduate schools in the nation and among the best four in the state of Ohio. The College of Engineering has a combined undergraduate and graduate enrollment of 2,700 students and 100 faculty. The University of Toledo, a state institution, has an enrollment of approximately 21,000 students and is located in a region experiencing tremendous industrial growth. Websites: http://bioe.eng.utoledo.edu/, http://www. eng.utoledo.edu/, and http://www.utoledo.edu/.

Applicants should send résumés to: Professor Ronald L. Fournier, Chairman, c/o Rochelle C. Bavol, 5004 Nitschke Hall, College of Engineering, The University of Toledo, Toledo, OH 43606-3390. FAX: 419-530-8012; e-mail: rbavol@eng.utoledo.edu. The review process will begin January 2, 1999. The positions will remain open until appointments are made. The University of Toledo is an Affirmative Action Employer. Women and minorities are encouraged to apply.

FACULTY POSITIONS IN PHARMACOLOGY UNIVERSITY OF VIRGINIA

Applications are invited for two tenure-track positions in the Department of Pharmacology to be filled at the rank of ASSISTANT PROFESSOR or HIGHER. The Department is seeking applicants with significant postdoctoral research experience and research interests relevant to cell signaling using contemporary approaches, including molecular structure, genetic analysis of function in model organisms or differentiated cells, control of transcription, and the organization and function of the cardiovascular, nervous, or immune systems. Successful candidates will be expected to develop or maintain externally funded research programs and to participate in graduate and medical student teaching. The University of Virginia provides a highly interactive scientific community well supported by core facilities, research centers, and training programs (find more information about our Department at our website: http://www.med.virginia.edu/medicine/basic-sci/pharm/Pharm.html). Highly competitive salary and start-up packages are available for these positions.

Curriculum vitae, statement of research accomplishments and plans, and three letters of recommendation should be directed to: Dr. John Lawrence, Chair, Faculty Search Committee, Department of Pharmacology, Box 448, Jordan Hall, University of Virginia, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer. Applications from women and underrepresented minorities are encouraged.

FACULTY POSITION PEDIATRIC PULMONARY/ CRITICAL CARE MEDICINE

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The University of Texas at Austin, Department of Marine Science and Marine Science Institute invite applications for a Marine Chemist to hold a joint appointment as a tenure-track ASSISTANT PROFESSOR in the Department and as a RESEARCH SCIENTIST at the Institute (contingent upon availability of funding). Marine Chemists with interests in estuarine and coastal environments, as well as pelagic environments, are encouraged to apply. Areas of interest include, but are not limited to, biogeochemistry, biological-chemical interactions, chemical tracers, organic geochemistry, nutrient and trace metal dynamics, and environmental chemistry. Candidates must have a Ph.D. degree. Preference will be given to candidates with a strong research record. The successful candidate will be expected to develop externally funded research programs and to contribute to graduate and undergraduate education through course instruction and student advising. The position receives nine months of annual salary support from the state. For more information about the Institute see our website: http:// www.utmsi.utexas.edu/.

Applicants should send a curriculum vitae, a statement of research and teaching interests, and the names and addresses of five references to: Search Committee Chairman, The University of Texas Marine Science Institute, 750 Channel View Drive, Port Aransas, TX 78373-5015. Review of applications will begin on February 1, 1999, and will continue until the position is filled. The University of Texas at Austin is an Equal Opportunity/ Affirmative Action Employer.

FACULTY POSITIONS. Microbiology and immunology, The Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine at Hershey invites applications for tenure-track faculty positions from outstanding candidates with interests in the molecular basis of disease processes within areas of immunology and virology. We are especially seeking individuals who use molecular and cellular approaches to better understand the immune response and Molecular Virologists studying viral gene expression, assembly, and/or pathogenicity of DNA or RNA viruses. Candidates at the ASSISTANT or ASSOCIATE PROFESSOR level will be considered. All applicants must have a Ph.D. and/ or M.D. degree, postdoctoral research experience, and a strong record of research accomplishments. Excellent research facilities, strong departmental and interdepartmental graduate student training programs, outstanding institutional core facilities, as well as intercampus and intercollege research interactions all contribute to the productive research environment within the Department. Participation in the Department's graduate and medical student teaching programs is expected. Applicants should send their curriculum vitae, a statement of research interests, and the names of three references to: Dr. Richard J. Courtney, Chair, Department of Microbiology and Immunology, The Pennsylvania State University College of Medicine, H107, Pos#: S-3936, 500 University Drive, Hershey, PA 17033. For your health, Hershey Medical Center is a smoke-free campus. Penn State is committed to Affirmative Action/Equal Opportunity and the diversity of its work

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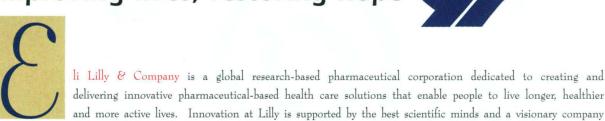
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RECOMBINANT PROTEINS

Research Scientist, Molecular Biology Platform
Recruitment #3152

The primary function will be to express recombinant proteins from prokaryotic and eukaryotic hosts as part of a multidisciplinary team developing vaccines against infectious disease and cancer. The successful candidates will be encouraged to assume a leadership role in this area. A Ph.D. in Molecular Biology or related field and 3-5 years of post doctoral experience is necessary. Knowledge of biochemistry, microbiology and immunology is required and managerial experience is an asset.

MICROBIAL GENETICS

Associate Research Scientist or Research Scientist Recruitment #3165

The successful candidate will apply genomic technologies to antigen discovery and employ genetic methodologies to manipulate microbes. Developing an understanding of host microbe interactions as they apply to novel vaccines will be key. Requirements include a Ph.D. in Microbial Genetics or related field and 2 years of postdoctoral experience. Thorough background in microbiology, genetics and immunology is necessary, as is experience in genetic manipulation of bacteria and the application of bioinformatic technologies. Successful candidates will have an excellent publication record demonstrating their scientific creativity and productivity.

TUMOUR IMMUNOLOGY

Research Scientist, Immunology Platform Recruitment #3166

Primary responsibilities include contributing state-of-the-art cellular immunology expertise to a multidisciplinary team developing cancer vaccines. Leading a subgroup involved in immunogen design and human T-cell response assessment will be the responsibility of the chosen candidate. A Ph.D. in Immunology and a minimum of 3-5 years of postdoctoral experience in tumour immunobiology are required. A strong background in human cellular immunology is essential, along with significant contributions to the scientific literature in relevant areas. Supervisory experience is a definite asset.

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We want to thank all applicants, however, only those under consideration will be contacted.



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Chief, Laboratory of Clinical Studies

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The applicant must possess a medical degree and have licensure in at least one state and be Board-certified in a medical specialty. Experience must include managing a senior-level research program that is recognized nationally. The total compensation will be commensurate with education and experience. Candidates may be eligible for relocation or other bonuses. *U.S. citizenship is required.*

All applications should include the following: a current curriculum vitae and bibliography; a one-page synopsis of research accomplishments and research plans; and the names, addresses, and telephone numbers of five professional references. A list of the requirements or additional information about the position may be obtained by contacting Ms. Hanratty at the address below. Applications should be sent to:

Ms. Kathleen Hanratty NIH, Bldg. 31, Room 1B58 31 Center Drive MSC 2088 Bethesda, MD 20892-2088 Telephone: (301) 496-9842 FAX: (301) 402-0016 e-mail: kh54d@nih.gov

Applications MUST be received no later than January 31, 1999.

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Director ALFRED E. MANN INSTITUTE for Biomedical Engineering

The Alfred E. Mann Institute for Biomedical Engineering at the University of Southern California (AMI-USC) invites nominations and applications for the position of Director.

AMI-USC. established in September 1998 through a gift of \$100 million from Alfred E. Mann and the Alfred E. Mann Foundation, is a non-profit institute engaged in advanced biomedical research to foster the development of medical devices and other biomedical technologies with the ultimate goal of improving human health and well-being.

The founding director will select and oversee the innovative research and development directions of AMI-USC that will lead to the transfer of new biomedical technologies to industry. To accomplish the Institute's goals the director will draw on the extensive basic and applied research activities of current USC faculty in engineering, natural sciences, and health sciences and together with the academic departments, will recruit new faculty to USC and the Institute.

The director of AMI-USC should possess a distinguished record of research accomplishments in engineering, life sciences or health sciences that will qualify him or her to hold a faculty position at USC. The director should also have significant experience with the biomedical technology industry.

Applications and nominations should be directed to: AMI-USC Search Committee, c/o David Z. D'Argenio, Chair, Department of Biomedical Engineering, University of Southern California, Los Angeles, CA 90089-1451, or to amiusc@usc.edu. The University of Southern California is an Affirmative Action/Equal Opportunity Employer.

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We offer competitive salaries, outstanding benefits, and an environment that's conducive to professional growth. For confidential consideration, please forward resume indicating Job Code RJB98658, to: Parke-Davis Attn: Resume Processing Center, PO Box 92242, Los Angeles, CA 90009-2242, fax: 734-622-7617 or email: resume@aa.wl.com We are an equal opportunity employer.



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Smithsonian Tropical Research Institute

The Smithsonian Tropical Research Institute (STRI), a division of the Smithsonian Institution headquartered in the Republic of Panama, offers research fellowships. Disciplines include ecology, anthropology, paleontology, conservation biology, evolution, systematics, behavior, and physiology of tropical plants and animals. Research should be based at a STRI facility; proposals that include comparative research in other tropical countries will be considered.

- ★ Earl S. Tupper 3-year postdoctoral fellowships (deadline: January 15). Applications should include detailed research proposal with budget, curriculum vitae, 2 letters of reference, names and telephone numbers of 3 additional references, and reprints of most important papters. Applicants should consult with STRI scientists who will serve as advisor before submitting final applications. Annual stipend up to \$30,000 with yearly travel and research allotments. To send applications and inquiries: Smithsonian Tropical Research Institute, Unit 0948, APO AA 34002-0948 or e-mail fellows@ tivoli.si.edu or http://www.si.edu/stri.
- Predoctoral, postdoctoral, senior postdoctoral (up to 1 year) and 10-week fellowships are available through the Smithsonian's Office of Fellowships & Grants, Washington, D.C. Deadline: January 15. For information: Office of Fellowships & Grants at 955 L'Enfant Plaza, Suite 7000, Washington, D.C. 20560, e-mail: siofg@ofg.si.edu, http://www.si.edu/research+study.
- ★ Three-month fellowhips (deadline: February 15, May 15. August 15, and November 15) thru STRI. For information: Smithsonian Tropical Research Institute, Unit 0948, APO AA 34002-0948 or e-mail: fellows@tivoli.si.edu or http://www.si.

Awards based upon merit, without regard to race, color, religion, sex, nationality, age, or condition of disability of the applicant.

POSTDOCTORAL POSITION

Chromatin Structure and Epigenetic Regulation of Gene Expression

A postdoctoral position is available immediately at the Cold Spring Harbor Laboratory to study the epigenetic control of silencing and recombination suppression at the mating-type region of fission yeast. This project uses genetics, cell molecular biology and biochemistry to study the role of recently identified trans-acting factors, histone modifications and DNA replication proteins in the propagation of epigenetic states (see Cell 86:95-101, Genetics 150:563-576). Experience in the fields of yeast genetics, molecular biology and chromatin protein analysis is preferred.

The Cold Spring Harbor Laboratory offers a competitive postdoctoral salary, a comprehensive benefits package, and an excellent work environment. To apply please send a curriculum vitae, an introductory letter containing a brief description of research experience, and three letters of reference to: Dr. Shiv Grewal



Cold Spring Harbor Laboratory 1 Bungtown Road, P.O. Box 100 Cold Spring Harbor, NY 11724 Phone: (516) 367-8808 Fax: (516) 367-8815

Email: grewal@cshl.org

Cold Spring Harbor Laboratory is an equal opportunity employer and encourages applications from women and minorities.

POSTDOCTORAL TRAINING AT FOX CHASE

Fox Chase Cancer Center in Philadelphia is seeking postdoctoral fellows with Ph.D. or M.D. degrees (or equivalent) to join a research program in cancer pharmacology. Positions are available for our NIHTraining Grant* with the following Principal Investigators:

lames Gallo, Ph.D. - Therapeutics of brain tumors; drug/gene delivery; pharmacodynamics. Jenny Głusker, D. Phil. - Crystallography, molecular mechanisms of

enzyme; substrate interactions. Thomas Hamilton, Ph.D. - Chemotherapy of ovarian cancer.

Gary D. Kruh, M.D., Ph.D. - Transporters and drug resistance; signal

transduction; tumor suppressor proteins.
Yoshiro Matsumoto, Ph.D. - Mechanisms of DNA repair; cellular responses to DNA damage.

Maureen Murphy, Ph.D. - p53 in apoptosis; transcriptional repression

by p53.

Rebecca Raftogianis, Ph.D. - Pharmacogenetics of sulfation and desulfation

reactions: steroid hormone metabolism. Kenneth D. Tew, Ph.D., D.Sc. - Glutathione metabolism and drug

resistance, antimitotic drugs.

Louis Weiner, M.D. - Antibody engineering; use of antibody-derived proteins in cancer therapy

To apply please send CV to:

Ms. Patricia Kraus Fox Chase Cancer Center Department of Pharmacology 7701 Burholme Avenue Philadelphia, PA 19111 Phone: (215)728-4303 Fax: (215) 728-4333 E-mail: PH Kraus@fccc.edu

*Applicants must qualify under the NIH guidelines which include US citizenship or permanent residency



Fox Chase Cancer Center is an Affirmative Action/Equal Opportunity Employer

NATIONAL INSTITUTES OF HEALTH NATIONAL INSTITUTE ON ALCOHOL ABUSE AND ALCOHOLISM DIVISION OF INTRAMURAL CLINICAL AND BIOLOGICAL RESEARCH

Chief, Laboratory of Clinical Studies

An outstanding clinician-investigator to direct a clinical research program is sought by the National Institute on Alcohol Abuse and Alcoholism (NIAAA), National Institutes of Health (NIH). The position is located in the Clinical Center, Building 10 on the NIH Campus in Bethesda, Maryland. The Laboratory of Clinical Studies is a component of the NIAAA's Division of Intramural Clinical and Biological Research (DICBR).

The Laboratory Chief is responsible for establishing an independent clinical research program focusing on the causes, consequences, and treatments of alcohol abuse and alcoholism. Successful candidates should have a broad perspective of clinical research and the neurobiological underpinnings of alcoholism. The Laboratory has approximately 60 employees, fellows, and guest researchers and an eleven-bed inpatient ward, an outpatient clinic, and access to facilities for both structural and functional brain imaging. It has a budget of approximately \$8.5 million, which includes clinical support services.

The applicant must possess a medical degree and have licensure in at least one state and be Board-certified in a medical specialty. Experience must include managing a senior-level research program that is recognized nationally. The total compensation will be commensurate with education and experience. Candidates may be eligible for relocation or other bonuses. *U.S. citizenship is required*.

All applications should include the following: a current curriculum vitae and bibliography; a one-page synopsis of research accomplishments and research plans; and the names, addresses, and telephone numbers of five professional references. A list of the requirements or additional information about the position may be obtained by contacting **Ms. Hanratty** at the address listed below. Applications should be sent to:

Ms. Kathleen Hanratty NIH, Bldg. 31, Room 1B58 31 Center Drive MSC 2088 Bethesda, MD 20892-2088 Telephone: (301) 402 0946

FAX: (301) 402-0016 E-mail: kh54d@nih.gov

Applications MUST be received no later than January 31, 1999.

NIH is an Equal Opportunity Employer. Applications form women, minorities, and persons with disability are strongly encouraged. The DICBR/NIAAA is a smoke-free environment.

Vical Inc. is a San Diego-based biotechnology company with a world leadership position in research and development of DNA-based delivery systems for vaccines against infectious diseases and for therapeutics to treat cancer and metabolic disease. We currently have the following opportunity:

RESEARCH SCIENTIST I

The selected individual will carry out research studies aimed at defining mechanisms and optimizing in vivo plasmid DNA expression and DNA-based immunization. Studies involve parenteral administration of DNA and subsequent measurement of DNA uptake, expression and biological activities of the transgene products. Will also supervise the Research Associate and manage the department's histological facility.

Requires a Ph.D in a Cell or Molecular Biology Science, 3+ years of postdoctoral experience in vivo viral or non-viral gene transfer, and/or immunology. Preference will be given to candidates with experience in histology and immunostaining, in situ hybridization, cell culture, microsurgery, and animal models of disease. Familiarity with statistical methods and proficiency in MS Excel and Word is necessary.

For consideration, please send your resume to: VICAL INC., Human Resources Dept., Job Code: 1102, 9373 Towne Centre Drive, Ste. 100, San Diego, CA 92121, or Fax to: (619) 646-1350. EOE M/F/D/X.





Chair



Department of Cellular & Molecular Medicine

The Faculty of Medicine at the University of Ottawa seeks a dynamic academic leader as Chair of the new Department of Cellular & Molecular Medicine. The Department, the result of a merger of the Departments of Anatomy & Neurobiology, Pharmacology, and Physiology, comprises 60 full-time and cross-appointed scientists and is the largest basic science department in the Faculty. The current graduate studies enrollment of the Department is 60 students.

Applicants should have an outstanding record of achievement and innovation in research and education in the disciplines of cellular and molecular biology or integrative biology. The Department places particular emphasis on research in two thematic areas: Growth & Development and Neurotransmission. Proficiency in both official languages (English and French) is desired.

Appointment to the Faculty of Medicine will be made at the appropriate academic rank (Associate or Full Professor). Interested applicants are requested to submit a curriculum vitae and the names of three references to Dr. Peter Walker, Dean, Faculty of Medicine, 451 Smyth, Ottawa, Ontario K1H 8M5 Canada by January 30, 1999.

In accordance with Canadian immigration requirements, this advertisement is directed primarily, but not solely, to Canadian citizens and permanent residents. Women, aboriginal peoples, members of visible minorities, and persons with disabilities are encouraged to apply. More information can be obtained at http://www.uottawa.ca/academic/med/cellmed/.

SCIENTISTS

Advanced BioScience Laboratories, Inc. is seeking motivated Scientists to work as part of its NASBA technology team. The mission of this group is to establish NASBA technology at the forefront of the US Scientific Community. Specifically we are seeking qualified candidates for the following positions:

Technology Development Scientists

This person will pioneer the development of NASBA technology and assays in new applications, and will work to develop commercial opportunities for NASBA technology in the fields of virology, immunology, and biomedical applications. The successful candidate should have a Ph.D. in Molecular Biology and strong skills in assay and technology development. The candidate should also have a strong interest in the development of commercial opportunities.

Contract Development Manager

This position is responsible for working as part of ABL's highly established Government Contract group to develop new opportunities for NASBA technology in the fields of vinology, immunology, and other areas of biomedical significance. The candidate should have a Ph.D. in Molecular Biology with excellent communication skills. Knowledge of the Government Contracting system is



AKZO NOBEL





Cognitive Neuroscience Duke University

Duke University has launched a major new initiative in cognitive neuroscience and will hire six tenure-track faculty members over the next three years in the recently established Center for Cognitive Neuroscience. Scholars utilizing

cognitive neuroscience approaches to the study of attention, memory, language, visual cognition, emotion, development and aging, and other areas, including computational cognitive neuroscience are sought. A demonstrated capability or exceptional promise for developing a first-rank, independent, extramurallyfunded research program at the cutting edge of cognitive neuro-science is required. New faculty will hold appointments at the Assistant, Associate, and Full Professor levels in university departments such as Psychology, Neurobiology, Computer Science, Philosophy, Biomedical Engineering, Electrical and Computer Engineering or other departments as appropriate, and will participate in both undergraduate and graduate education. The Center for Cognitive Neuroscience is part of an interdisciplinary initiative that includes the recently developed Brain Imaging and Analysis Center in Duke Medical School, directed by Professor Gregory McCarthy, which houses 1.5T and 4T GE MRI scanners dedicated to neuroimaging research. Together, the two centers will bring a total of twelve new tenure-track/tenured faculty to Duke, creating, in combination with our current faculty and related growth in Neurobiology, a dynamic cognitive neuroscience community. Interested candidates should submit a statement of research and teaching interests, c.v., representative publications, and three letters of recommendation to: Professor George R. Mangun, Director, Center for Cognitive Neuroscience, c/o Office of the Provost, 220 Allen Building, Box 90005, Duke University, Durham, NC 27708. Applications received by January 31, 1999 will be guaranteed consideration. Interviews will commence in February of 1999 for positions beginning in August, 1999. General information is available at our web site (http://www.mind.duke.edu). Duke University is an Equal Opportunity/Affirmative Action Employer.

Faculty Positions Department of Human Genetics

A new Department of Human Genetics has been established at the University of Chicago, chaired by David H. Ledbetter, Ph.D. Strengths of the university genetics community include outstanding programs in cancer genetics, molecular cytogenetics, complex disease analysis, evolution, and population genetics. We are recruiting tenure-track faculty in broad areas of human genetics research, including (but not limited to) neurogenetics, cancer genetics, chromosome structure/function, and computational or experimental genomics. State-of-the-art research space is located in the new Institute for Molecular Medicine and generous start-up funds are available. Applicants must have a demonstrated ability to develop an independently funded research program of the highest caliber. Positions are open to Ph.D., M.D., or M.D./Ph.D. candidates. Individuals with ABMG board certification or eligibility are encouraged to apply. Although the search is primarily aimed at Assistant Professor level scientists, appointments at other levels, including senior appointments will be considered.

Interested applicants should send curriculum vitae, a short summary of research plans, and the names of three references to: Chair, Human Genetics Search Committee, Department of Human Genetics, The University of Chicago, 924 East 57th Street, JFK R-110, Chicago, IL 60637.

http://www.genes.uchicago.edu



THE UNIVERSITY OF CHICAGO

The University of Chicago is an Equal Opportunity/Affirmative Action Employer

RUTGERS

TITLE: DEAN OF RESEARCH
COOK COLLEGE / DIRECTOR OF RESEARCH
NEW JERSEY AGRICULTURAL
EXPERIMENT STATION

Location: Cook College / New Jersey Agricultural Experiment Station, Rutgers

The State University of New Jersey, A Land-Grant Institution

The Dean/Director is responsible for directing and administering the statewide research programs of the Experiment Station in the agricultural, environmental, food, life, and marine sciences. The Dean/Director will provide leadership for the research activities of the Academic Departments and the Research Centers and Institutes associated with Cook College, the College of Agriculture and Natural Resources.

The Research component of the New Jersey Agricultural Experiment Station totals approximately \$45M in state, federal, and external grant and contract support annually. The Dean/Director will interact extensively with appropriate state and federal governmental bodies and will provide leadership for the College and the Experiment Station in identifying and securing principal sources of outside funding from state and federal agencies, industry, and commodity groups. The Dean/Director reports to the Executive Dean/Executive Director of Agriculture and Natural Resources.

An earned Doctorate in an appropriate discipline is required. An outstanding research background, and a demonstrated administrative competency in program development and leadership, fiscal planning, grant procurement, budget, and personnel management are essential.

Familiarity with operations of land-grant institutions is necessary. Individuals should qualify for a faculty appointment at the rank of full professor with tenure.

Review of applications will begin on January 20, 1999. The search will continue until a suitable candidate is identified. Interested applicants should submit a complete curriculum vitae and the names, addresses, and phone numbers of three references to: Dr. Peter Smouse, Chair of the Search and Screen Committee, Cook College—Rutgers the State University of New Jersey Office of Personnel, 88 Lipman Drive, Martin Hall, New Brunswick, NJ 08901-8525. Telephone number: 732-932-9541x550, Fax number: 732-932-6769.

Rutgers University is an Affirmative Action/Equal Opportunity Employer.

LAWRENCE LIVERMORE POSTDOCTORAL **FELLOWSHIP**

The Lawrence Livermore National Laboratory Director has established a Lawrence Livermore Postdoctoral Fellowship. This is a highly desirable, prestigious position with ample resources and freedom to conduct cutting edge research in the fields of the candidate's choice. Duration for the Fellowship is three years. Two openings are immediately available, and two additional positions will be available every year to a maximum of six. Positions are awarded only to candidates with exceptional talent, credentials, and a track record of research accomplishment.

Candidates will do original research in one or more aspects of science relevant to the mission and goals of LLNL which include: Physics, Computational Mathematics, Computer Science, Chemistry, Material Science, Engineering, Environmental Research, Atmospheric Science, Geological Sciences, Energy, Laser Science, and Biological Science. Successful candidates may participate in experimental or theoretical work at LLNL, and will have access to LLNL's extensive computing facilities, specialized laboratory facilities, and field equipment. A senior scientific staff member will serve as a mentor to each of the Fellows. The candidates will receive full management and administrative support. The salary is \$6000/mo.

Please refer to our web page http://ep.llnl.gov/urp/ fellowship.html for eligibility requirements and application information. Please reference source code AJSCC48AD

University of California



EK Science.

Pharmacenticals

Incorporated, a publicly owned pharmacentical company in Cambridge, is engaged in the discovery, development and commercialization of

pharmaceuticals for the treatment of diseases for which there are currently limited or no effective treatments. The Company is concentrating on the discovery and development of drugs for the role in the treatment of many diseases including cancer multi-drug resistance, inflammation, and HIV infection and AIDS.

ABIOLOGY

Investigator

In this position you will work independently to design and execute an experimental approach for addressing the company's needs while training assistant or associate level scientists if necessary. Duties will include: setting up animal models for neural diseases such as Alzheimer's, Parkinson, or Stroke; screening compounds using the resulted disease models; and analyzing and interpreting data to evaluate the compounds. Successful candidates will have a Ph.D. and/or a medical or veterinary degree with at least 3 years' experience in pharmacology, toxicology or neurobiology. Advanced knowledge about pathogenesis of neural diseases and appropriate animal models as well as excellent oral and written communication skills are a must. Job Code: 300-18-97

▲ Investigator

In this position you will work to target validation and molecular mechanisms of potential therapeutic targets. Duties will include: designing, executing, and reviewing experiments for target identification, characterization, and validation for neurophillin project; and establishing cell models for compound screening, target validation and mechanistic studies. Successful candidates will have Ph.D. with a minimum of 2 years' postdoctoral experience or equivalent. Extensive training in neurobiology with emphasis in neuronal differentiation and regeneration and broad knowledge and experience in molecular and cell biology (especially in the field of neurotrophic mechanisms and signal transduction) are required.

Job Code: 300-28-98

Advance your way of thinking:

▲ BIOINFORMATICS

Investigator

In this position you will perform sequence and structural analyses of existing drug targets and homologs. identify and evaluate new targets, create homology models, and maintain local sequence and structure databases. Duties will include: routine sequence queries, identification of protein family members, protein functional domain analyses, maintenance and installation of local copies of GenBank, GenPept, SwissProt, TREMBL as well as formatting these databases for GCG and Blast access. In addition, individual will install/ maintain local copy of PDB database. Successful candidate will have Ph.D. n a biology related field with a strong background in molecular biology. Experience with sequence and protein structure analyses, strong verbal and written communication skills, and internet experience are a must.

Job Code: 400-1-98

Please submit cover letter and resume on-line (preferred method), to: www.vpharm.com/jobs, or to: Human Resources, Vertex Pharmaceuticals, , 130 Waverly Job Code: Street, Cambridge, MA 02139; Fax: (617) 577-6645. Scannable resumes should be forwarded on plain white bond paper, using standard types and fonts, and no bold or italic print.

We are an equal opportunity employer who makes diversity the foundation of all



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www.vpharm.com

POSITIONS OPEN

CHAIR DEPARTMENT OF BIOLOGICAL SCIENCES UNIVERSITY OF IOWA

The College of Liberal Arts seeks a Chair for the Department of Biological Sciences. Candidate should be a senior scientist with a distinguished record of research productivity, a strong desire to maintain an active research program, and a commitment to undergraduate and graduate education. We welcome applicants from any area of the biological sciences, while particularly encouraging candidates who would enhance one or more of existing strengths in cell motility, genetics, neurobiology, developmental biology, and ecology and evolution.

The Department currently includes 33 faculty, six hired within the last three years. The Department ranks second in external funding among 42 departments in the College of Liberal Arts. Ongoing rapid hiring and the construction of a new building will provide exciting opportunities for growth and change in the Department. The successful candidate will bring vision and energy to the challenges of shaping the future direction of the Department while sustaining breadth in the biological sciences at the University of Iowa and strengthening the Department's national reputation for research and teaching.

Applicants should submit a curriculum vitae, statements of research interests and administrative philosophy, and the names and addresses of at least three references to: Professor Jeffrey Murray, Chair, Biological Sciences Search Committee, c/o Ginny Ockenfels, College of Liberal Arts, 240 Schaeffer Hall, University of Iowa, Iowa City, IA 52242.

The University of Iowa is an Affirmative Action/Equal Opportunity Employer. Minority candidates and women are encouraged to apply.

DEAN, SCHOOL OF EGINEERING, MATHEMATICS, AND SCIENCES PURDUE UNIVERSITY CALUMET Starting: July 1, 1999

The School consists of Departments of Biological Sciences; Chemistry and Physics; Engineering; and Mathematics, Computer Science, and Statistics. Purdue University Calumet (PUC) is a comprehensive university of 9,400 students. The University is located in Hammond, Indiana, a metropolitan area adjacent to Chicago. The successful candidate will have the following characteristics: earned doctorate in a discipline within the purview of the School; record of personal academic accomplishments at the University level commensurate with appointment to the faculty at the rank of Professor and with demonstrated excellence in teaching, proven record of scholarship, and prior administrative experience as Dean, Department Head, or equivalent; understanding of the disciplines within the School. Applications must include letter of application including a personal statement of qualifications; curriculum vitae; names, addresses, and telephone numbers of five professional references. Review of applications will begin February 1, 1999, and continue until position is filled. Send materials to: Secretary, School of Engineering, Mathematics, and Sciences Dean Selection Advisory Committee, Academic Affairs, Purdue University Calumet, Hammond, IN 46323. For more information about Purdue University Calumet visit website: http://www.calumet.purdue.edu. Purdue University Calumet is an Equal Access/Equal Opportunity University.

FACULTY POSITION IN CELL BIOLOGY/IMMUNOLOGY FORT LEWIS COLLEGE

ASSISTANT PROFESSOR of biology. Tenure-track position in cell biology anticipated fall 1999. Expertise in immunology/cell culture for a public four-year liberal arts college with a program including undergraduate research. Teaching responsibilities include introductory biology; interdisciplinary general education; immunology; and upper-division courses in area of expertise. Teaching load is 12 credit hours per term. Desirable areas of expertise include microbial physiology, genetics, virology. Post-doctoral experience preferred; candidate urged to seek extramural funding to support undergraduate research. Send curriculum vitae; statement of professional and research interests; statement of teaching philosophy; official transcripts; three current letters of reference to: Dr. Shere Byrd, Biology Department, Fort Lewis College, 1000 Rim Drive, Durango, CO 81301-3999. Materials must be received by January 11, 1999. Affirmative Action/Equal Opportunity Employer; wemen and minorities encouraged to apply.

POSITIONS OPEN



CHAIR DEPARTMENT OF ENVIRONMENTAL HEALTH SCIENCES

The University of Alabama at Birmingham (UAB) invites applications for the position of Chair of the Department of Environmental Health Sciences. UAB is a comprehensive, public, urban Carnegic Research I University. It is the state's largest research institution with a nationally recognized academic health center that provides instruction, research, and public service and health in the health-related areas. UAB ranks among the top 30 universities receiving federal research and development funds and 13th among institutions receiving NIH funding.

The School of Public Health is 56 faculty and more than

The School of Public Health is 56 faculty and more than 400 students. Enrollment has doubled in the past five years and extramurally funded research has tripled in the last three years advancing the school to a leader on campus in extramural support. The Department of Environment Health Sciences offers programs leading to the following degrees: Master of Public Health, Master of Science, Doctor of Public Health, and Doctor of Philosophy.

This position offers an excellent opportunity to build upon and implement a commitment to education and research shared by the faculty and university administration. Implementation of this vision will be supported by the commitment of new funding and the potential to recruit new faculty.

Leading candidates will have distinguished records of accomplishments in higher education and/or other fields of professional endeavor and will have demonstrated significant leadership skills. Qualifications for the position include an earned Doctorate in environmental health or related disciplines or fields; a record of teaching, service, research, and scholarly activities; individual and collaborative research; and administrative experience. The person must have the energy, experience, leadership ability, and vision to enhance the department's national and international recognition by the year 2005. Nominations and expressions of interest are encouraged immediately.

Please send applications, with curriculum vitae, and nominations to: Peter M. Ginter, Ph.D., Chair of Search Committee, University of Alabama at Birmingham, School of Public Health, Room 330, Ryals Building, Birmingham, AL 35294-0022. Telephone: 205-975-8970; FAX: 205-934-3347; e-mail: pginter@uab.edu. Or: Cheryl Pavick Soggs, Vice President, Higher Education Practice, A. T. Kearney, Inc., 1100 Abernathy Road, Suite 900, Atlanta, GA 30328-5603. Telephone: 770-393-9900; FAX: 770-395-9312; e-mail: cheryl_soggs@atkearney.com.

An Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR PHYSIOLOGY AND PHARMACOLOGY The City University of New York Medical School The Sophie Davis School of Biomedical Education

Applications are invited for a tenure-track faculty position at the level of Assistant or Associate Professor starting on September 1, 1999. The successful candidate will have excellent teaching abilities, expertise in cardiovascular physiology, and actively participate in the teaching of our medical students. Candidates will have a Ph.D. or M.D. degree and postdoctoral experience and be expected to have, or promptly establish, an externally funded research program.

The School has special commitments to increasing the number of Physicians from presently underrepresented minority groups, to emphasizing the role of primary care, and to training for community-based primary care service to underserved urban areas of New York City.

Applicants should submit a curriculum vitae and the names of three references. A statement of scientific accomplishments and future direction should be provided, as well as a statement about teaching experience and interests.

Applications should be sent by January 31, 1999, to:

Dr. Stanley Kalsner, Professor and Chair Department of Physiology and Pharmacology The City University of New York Medical School City College of New York, CUNY 138th Street and Convent Avenue New York, NY 10031

Equal Opportunity/Affirmative Action Employer, Minorities/Females/Disabled/Veterans.

POSITIONS OPEN

NICHOLAS CHAIR OF EARTH AND OCEAN SCIENCES DUKE UNIVERSITY

The Division of Earth and Ocean Sciences (EOS) of the Nicholas School of the Environment (NSOE) at Duke University invites applications for a distinguished, tenured, Full Professor appointment as a Nicholas Chair of Earth and Ocean Sciences. We are seeking an outstanding scientist with an established record of scholarly achievements in the earth and ocean sciences. We are particularly interested in scientists who work at a broad scale and examine the physical, chemical, or biological processes and exchanges that occur at the interfaces of the atmosphere, biosphere, hydrosphere, and lithosphere. Those with expertise in (i) climate studies on various time scales, (ii) coastal oceanography, (iii) biogeochemistry, and (iv) surficial processes are especially encouraged to apply. The successful candidate will be expected to continue to develop their existing research program, as well as play an appropriate role in educational programs within Duke University. We are also interested in candidates whose research interests will foster linkages within NSOE and with other elements of Duke University.

EOS currently includes 14 full-time faculty, and three faculty with secondary appointments from other academic units. This position is one of four Distinguished Nicholas Chairs to be appointed in the Nicholas School of the Environment and part of a series of faculty hires in EOS focusing on processes affecting the Earth's surface and oceanic realms.

Duke University offers a wide range of supporting facilities and resources, including computational equipment, analytical instrumentation, the Duke University Marine Laboratory, and the R/V Cape Hatteras (jointly operated by Duke and the University of North Carolina). Please see our website: http://www.cos.duke.edu for additional information.

Interested individuals should send a letter of interest and curriculum vitae to: Chair, Nicholas Chair Search Committee, Division of Earth and Ocean Sciences, Box 90230, Duke University, Durham, NC 27708-0230. The review of applicants will begin on February 1, 1999, and will continue until the position is filled. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION INVERTEBRATE MOLECULAR SYSTEMATICS Southern Illinois University Carbondale

The Department of Zoology, Southern Illinois University Carbondale, invites applications for a nine-month, tenure-track ASSISTANT PROFESSOR position in the area of invertebrate molecular systematics. Applicants should have a strong background in invertebrate and molecular biology; expertise in modern field, collections, laboratory, and computer-analytical techniques; and a research plan that focuses on phylogenetic and/or taxonomic analysis of a major invertebrate group. The department seeks to complement its strong core of faculty in arachnology, entomology, helminthology, herpetology, ichthyology, manimalogy, ornithology, morphological and molecular systematics, taxonomy, phylogenetics, biogeography, and the biodiversity. Modern research facilities and competitive start-up funds are available. The successful candidate will be expected to develop an externally funded research program, supervise M.S. and Ph.D. students, teach undergraduate courses in invertebrate zoology and genetics, and teach a graduate course in the area of specialization. Candidates must have a Ph.D. and research experience in an appropriate field, postdoctoral experience, demonstrated grant success or evidence of strong potential to obtain external funding, and peerreviewed publication and scholarly activities commensurate with experience. Position begins in August 1999. Applicants should send a curriculum vitae, statements of research and teaching interests, and copies of transcripts, and arrange to have three (3) letters of reference sent to: Dr. Carey Krajewski, Chair, Invertebrate Search Committee, Department of Zoology, Southern Illinois University, Carbondale, IL 62901-6501. Review of applications will begin 30 January 1999 and continue until the position is filled. Information about the department and university can be found at website: http:// www.science.siu.edu/zoology/ and c-mail inquiries should be directed to: The Search Committee Chair, e-mail: careyk@siu.edu. Southern Illinois University Carbondale is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Pre and Postdoctoral Training in Infectious Diseases, Microbiology and Immunology The University of North Carolina at Chapel Hill



Microbial Pathogenesis and Epidemiology
Myron S. Cohen, MD, Director

Epidemiology and Pathogenesis of STDs/HIVP. Frederick Sparling, MD, Director

*Immunology*Jeffrey A. Frelinger, PhD, Director

Molecular Biology of Viral Diseases
Ronald I. Swanstrom, PhD, Director
www.med.unc.edu/lccc/virology

Address Inquiries to
Kathy James, Administrator
kjames@med.unc.edu
Infectious Diseases Training Program
CB 7030 UNC-CH Chapel Hill, NC 27599
Phone: 919-966-2536 Fax: 919-966-6714

U.S. Environmental Protection Agency Office of Research and Development

EPA is seeking a highly qualified scientific leader for the position of Division Director, Human Studies, National Health and Environmental Effects Research Laboratory. The division is housed in the EPA Human Studies Facility on the campus of the University of North Carolina, Chapel Hill, NC. This division provides critical human data and mechanistic information needed to improve the scientific basis for health risk assessment to better support environmental decision making by the Agency. The successful candidate will plan, develop, organize, direct, and implement multimillion dollar research programs.

This division conducts a multidisciplinary research and development program in the broad area of human health effects of environmental pollutants. Areas of specialization include:

- development of methods and conduct of studies to identify and quantify the effects of environmental pollutants on humans.
- development/application of approaches to estimate directly human exposure and dose or through the application of validated biomarkers.
- conduct of mechanistic research (in vivo and in vitro) for the development of pharmacokinetic and biologically based dose response models.

To meet the requirements of this position, applicants must have a Bachelor's (or higher) degree in one of the following: biological, medical, engineering, or physical sciences (advanced degree preferred, but not required). Preferred candidate would possess recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels. Candidates must also have competence and substantive specialized (scientific, administrative, or managerial) experience in a type of work or a combination of functions directly related to this position. In addition, applicants must meet the executive and technical qualifications described in the vacancy announcement. Salary will be commensurate with level of appointment in the federal Senior Executive Service. To obtain a copy of the vacancy announcement for this position, call or write to: USEPA/OARM/OHROS/SES Human Resources Staff (3641), 401 M Street S.W., Washington, DC 20460. The telephone number is 202-260-6374. Request announcement number EPA-9-SES-ORD-6136 or you may download a full text announcement via Internet at www.usajobs.opm.gov. Applications must be postmarked by the closing date January 15, 1999. EPA is an Equal Opportunity Employer.

Laboratory Chief, NIAID, NIH

The National Institute of Allergy and Infectious Diseases (NIAID), NIH, seeks an individual to head the Laboratory of Immunogenetics, which is located at the Twinbrook Facility in Rockville, Maryland and is a component of the NIAID Division of Intramural Research. This position requires an M.D., Ph.D., or equivalent with proven leadership abilities and a strong independent research program. Preference will be given to candidates with research interest in immunology, immunogenetics or infectious diseases and those whose program complements other research programs currently in the laboratory. The Laboratory Chief will have independent resources to conduct their research and will supervise other Principal Investigators with independent research programs. A Laboratory Chief in the Division of Intramural Research is equivalent to a Department Head in a University or Medical School. Applicants must be U.S. citizens or permanent residents. Salary depends on degree and qualifications and ranges up to \$151,800.

Interested persons may contact **Dr. Karyl Barron**, Deputy Director, DIR, NIAID at (301) 402-2208 or [kbarron@nih.gov] for additional information about the position. A curriculum vitae, bibliography, three letters of reference, a detailed statement of research interests and selected publications must be submitted by December 31, 1998, to: **Ms. Melissa Keller, Office of Human Resources Management, NIAID, Building 31, Room 7A20; 31 Center Drive, MSC 2520, Bethesda, MD 20892-2520.** Please reference vacancy announcement number AI-98-110.

NIH is an Equal Employment Opportunity Employer.



CANCER BIOLOGISTS

The Department of Medicine and the Duke Comprehensive Cancer Center are soliciting applications for research faculty with expertise within the broad area of cancer biology. Individuals with a PhD or MD/PhD are being recruited at the Assistant or Associate Professor level. Both basic and disease-specific oncology research teams aim toward translational applications of innovative therapies. Candidates will join an environment of multiple collaborative potentials and participate in the academic life of the University and the Medical Center (see recent Time article at www.mc.duke.edu).

Submit letters of interest and CVs to: **Keith M. Sullivan, MD, Chief, Division of Medical Oncology and Transplantation, Box 3406, Duke University Medical Center, Durham, NC 27710.**

Duke University Medical Center

Duke University Is An Equal Opportunity/Affirmative Action Employer

POSITIONS OPEN

FACULTY POSITION AQUATIC ECOLOGIST Southern Illinois University Carbondale

The Department of Zoology, Southern Illinois University Carbondale, invites applications for a nine-month, tenure-track ASSISTANT PROFESSOR position in aquatic ecology. Preference will be given to applicants with strong quantitative skills and expertise in aquatic invertebrate ecology. The department has a strong core of faculty with research interests in ecology, conservation, and biodiversity. Modern research facilities, excellent geographic location, and start-up funds are available. The successful candidate will be expected to develop an externally funded research program, supervise M.S. and Ph.D students, teach some combination of undergraduate courses in zoology, ecology, conservation, or biostatistics, and a graduate course in the area of specialization. Candidates must have a Ph.D. and research experience in an appropriate field, postdoctoral experience, demonstrated grant success or evidence of strong potential to obtain external funding, and peer-reviewed publication and scholarly activities commensurate with experience. Position begins 16 August 1999. Applicants should send a curriculum vitae, statement of teaching and research interests, copies of transcripts, and arrange to have three (3) letters of reference sent to: Chair, Aquatic Ecology Search Committee, Department of Zoology, Southern Illinois University, Carbondale, IL 62901-6501. Information about the department and university can be found at website: http://www.science.siu.edu/ zoology/. Review of applications begins 30 January 1999 and will continue until the position is filled. Southern Illinois University Carbondale is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to

ASSISTANT PROFESSOR

The Department of Anatomy, Cell and Neurobiology at the Marshall University School of Medicine reopens the search for a tenure-track position at the Assistant Professor level with a proposed starting date of July 1, 1999. This position provides a unique opportunity in a developing program of excellence.

A Ph.D. and/or M.D. degree, postdoctoral experience, a record of publication in quality journals, and qualifications to teach cell biology to medical and graduate students are required. The successful candidate will be provided a research laboratory to develop and/or maintain an imaginative, externally funded research program. All applications are welcome and individuals with expertise in cell signaling, molecular biology, single cell analyses, and grant support are especially invited to apply. Candidates should send an introductory letter addressing their teaching experience and philosophy, research accomplishments and future research plans, a curriculum vitae, copies of two or three recent publications, and arrange for at least three letters of reference to: William B. Rhoten, Ph.D., Department of Anatomy, Cell and Neurobiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704-9388. Screening of applications will begin 4 January 1999.

Marshall University is an Equal Opportunity/Affirmative Action/ADA Employer and especially encourages applications from women and members of minority groups.

Ecology/population biology. Tenure-track appointment at Chapman University, an independent, comprehensive university located 30 miles south of Los Angeles in a culturally diverse community. Effective fall 1999. Subject to final funding approval. ASSISTANT PRO-FESSOR. Salary commensurate with qualifications/experience. Ph.D. in biological sciences (emphasis in ecology or population biology), demonstrated excellence in teaching and scholarship, and a commitment to working with students and developing collaborative research required. Demonstrated ability or potential to acquire extramural funding and interest in science education highly desirable. Teach ecology, vertebrate natural history/evolution and general biology; develop laboratories for general biology (emphasis in ecology/population biology); and develop course in population biology. Modest start-up funding for research. Submit cover letter, résumé, evidence of qualifications, statement of teaching philosophy, teaching evaluations, list of references with addresses and telephone numbers, and three letters of reference to: Dr. Anna Brownell, Department of Biological Sciences, Chapman University, Orange, CA 92866. Deadline: January 22, 1999.

Chapman University values diversity and is committed to providing equal career opportunities to all individuals.

POSITIONS OPEN

DEPARTMENT CHAIR BIOLOGICAL SCIENCES

The College of Arts and Sciences at Ohio University invites applications for the Chairperson of the Department of Biological Sciences. The department seeks a scientist in any area of biology with experience commensurate with the rank of Full Professor and with an outstanding record of publications and external funding. The successful candidate must have the administrative experience and ability to promote the professional development of the faculty. Experience directing graduate research and a commitment to undergraduate education is essential The Chair will have teaching obligations consistent with maintaining an active research program and providing leadership to promote the research, graduate, and undergraduate programs of the department. A competitive salary and research start-up funds are provided. The department has 35 faculty, 15 M.S. and 39 Ph.D. students, and approximately 1,000 undergraduate majors. Details regarding the Department of Biological Sciences as well as an expanded description of this position can be found on the department's website: http://www.ohiou.edu/ ~biosdept/.

Applicants should provide a curriculum vitae, a statement of research, and a statement of philosophy and goals of academic leadership. In addition to arranging to have three letters of reference sent to the Department of Biological Sciences, the applicant should provide the names, addresses, telephone numbers, and e-mail addresses of three other references. All materials should be sent to:

Jean Witkowski Department of Biological Sciences Irvine Hall Ohio University Athens, OH 45701

Review of applications will begin January 15, 1999.

Ohio University is an Equal Opportunity/Affirmative Action

Employer.

VETERINARY ANATOMIST. Department of Veterinary Comparative Anatomy, Pharmacology, and Physiology (VCAPP), Washington State University seeks to fill a tenure-track position at the rank of ASSISTANT /AS-SOCIATE/FULL PROFESSOR to begin on July 1, 1999. Qualifications include a Ph.D. with advanced training in vertebrate anatomy or an associated field. A D.V.M. or equivalent is desirable. Must possess effective interpersonal communication skills and a demonstrated ability to work with others in a team atmosphere. Previous experience teaching gross anatomy is desirable. Must demonstrate the ability or potential ability to develop an independent research program. Research interests that complement existing departmental/college programs are desirable. Review of applicants will begin on February 15, 1999, and continue until the position is filled. The application should consist of a cover letter that indicates rank sought; a curriculum vitae that details teaching experience, research interests, and potential projects; and the names, addresses, and telephone numbers of three references. Mail application to: Anatomy Search Committee, Department of Veterinary Comparative Anatomy, Pharmacology, and Physiology, Washington State University, Pullman, WA 99164-6520. E-mail: bmorton@vetmed.wsu.edu. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. People of color, women, persons of disability, Vietnam-era and disabled veterans, and/or persons between the ages of 40 to 70 are encouraged to apply.

ASSISTANT PROFESSOR POSITION

The Endocrine Section in the Department of Internal Medicine at Yale seeks a Physician-Scientist at the Assistant Professor level. The strengths of the Section lie in the areas of type 1 and type 2 diabetes, mineral metabolism, and PTHrP biology, and the interests of the successful candidate should complement but not duplicate these programs. Clinical excellence in medicine and endocrinology is expected. Three or more years of experience with modern techniques of molecular and cellular biology are desirable, as is evidence of ability to secure independent funding. The position carries with it start-up funds, three years of salary support and a modern laboratory. Candidates should send curriculum vitae and three letters of reference by January 31, 1999, to: Arthur E. Broadus, M.D., Ph.D., Chief, Section of Endocrinology, Department of Internal Medicine, P.O. Box 208020, New Haven, CT 06520-8020. Yale is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

POSITIONS OPEN

The F. Edward Hébert School of Medicine at the Uniformed Services University of the Health Sciences (USUHS) invites applications for the position of

PROFESSOR AND CHAIR OF THE DEPARTMENT OF MEDICAL AND CLINICAL PSYCHOLOGY

USUHS seeks a Ph.D. or M.D. scientist with a vigorous, well-funded research program, an outstanding record of scholarship and research productivity, and a strong commitment to excellence in education and mentorship. The new Chair will have administrative and managerial skills commensurate with the responsibilities of such a position and will be expected to utilize and build upon the existing strengths of the department. The department has research strengths in stress, addictive and appetitive behaviors, biobehavioral aspects of cardiovascular disease, eating disorders, and work-related musculoskeletal disorders. It maintains a biobehavioral Ph.D. program in medical psychology and an APA-accredited Ph.D. program in clinical psychology. Review of applications will begin in December 1998; for full consideration applications should be received by February 1, 1999, for an anticipated start of summer 1999. A competitive, institutionally supported salary is available; compensation may be provided for relocation expenses. Applicants should submit a curriculum vitae and bibliography, a description of current and future research interests, teaching and administrative experiences, and the names of three references to: Cinda Helke, Ph.D., Chair, Search Committee, c/o CHR, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Bethesda, MD 20814-4799. Website: http://www.usuhs.mil. Foreign nationals will be considered only if qualified United States citizens are not available. Final appointment to this position is subject to completion of a background investigation. USUHS is an Equal Opportunity/Affirmative Action Employer with a strong commitment to racial, cultural, and ethnic diversity.

FACULTY POSITION AT THE SANDERS-BROWN CENTER ON AGING UNIVERSITY OF KENTUCKY

The Sanders-Brown Center on Aging of the University of Kentucky has an opportunity to expand its research strength through a new Research Challenge Trust Fund Program and invites applications for a CLINICIAN/ INVESTIGATOR with an interest in Alzheimer's disease and related disorders in the tenure track series (AS-SOCIATE or FULL PROFESSOR). Applicants should have an outstanding record of independent research and extramural funding in Alzheimer's disease and related disorders. The successful candidate will be expected to establish a vigorous research program, participate in the clinical care of patients with neurodegenerative disorders, and teach in the Ph.D. program in gerontology. The Sanders-Brown Center on Aging is a NIA-funded Alzheimer's Disease Center and has 23 faculty involved in research in Alzheimer's disease, aging of the nervous system, and other aging activities. Applicants should submit a curriculum vitae, the names and addresses of three refto: Dr. William R. Markesbery, Director, Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40536. Applications are requested by January 15, 1998. The University of Kentucky is an Affirmative Action/Equal Opportunity Employment Institution.

PLANT PHYSIOLOGIST

The Department of Biological Sciences at Wright State University invites applications for a tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants should have a Ph.D. and will be expected to establish an extramurally funded research program. Postdoctoral experience and research that complements the environmental areas of our department are preferred. Required teaching will include developing a plant physiology course and helping with existing department course offerings at various levels. Applicants should submit a curriculum vitae, names and addresses of three referees, and statements of research and teaching interests to: Plant Physiology Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435. Review of candidates will begin on 11 January 1999. Further information on the department is available on our website: http://biology.wright.edu. Wright State is an Affirmative Action/Equal Opportunity Employer.

Rapid Access to Intervention Development "RAID"

The NATIONAL CANCER INSTITUTE is requesting applications for the following initiative: Rapid Access to Intervention Development (RAID). RAID will make available to academic investigators, on a competitive basis, the preclinical development contract resources of NCI's Developmental Therapeutics Program. The goal of RAID is the rapid movement of novel molecules and concepts from the laboratory to the clinic for proof-of-principle clinical trials. RAID will assist investigators who submit successful applications by providing any (or all) of the preclinical development steps that may be obstacles to clinical translation. These may include, for example, production, bulk supply, GMP manufacturing, formulation, and toxicology. Suitable agents for RAID will include small molecules, biologics, or vaccines. There are two receipt dates for proposals per year, February 1 and August 1. Current applications must be received by February 1, with all materials submitted directly to the office listed below. For information on process and procedure, visit the web site, http://dtp.nci.nih.gov. Inquiries are encouraged, and the opportunity to clarify issues or questions is welcome. As of this cycle of applications, academic investigators may have collaborations with small-business partners and still qualify for RAID funding. Please note that a maximum of two distinct proposals per investigator can be submitted per the application review date. Please contact:

> RAID, Office of Associate Director Developmental Therapeutics Program, NCI Executive Plaza North, Suite 843 6130 Executive Blvd., Rockville, MD 20852 Tel: 301.496.8720; Fax: 301.402.0831 Email: sausville@dtpax2.ncifcrf.gov

1999-2000 AAAS PUBLIC POLICY OPPORTUNITIES IN WASHINGTON, DC FOR SCIENTISTS AND ENGINEERS

The American Association for the Advancement of Science invites applications for public policy fellowships, which bring scientists and engineers to Washington, DC, to work for one year, beginning in September 1999. Fellows serve in the Congress, the Department of State, the Environmental Protection Agency, the Agency for International Development, the Department of Defense, the Department of Agriculture, the Food and Drug Administration, and the RAND Science and Technology Policy Institute.

The programs are designed to provide each Fellow with a unique public policy learning experience and to bring technical backgrounds and external perspectives to decision-making in the U.S. government.

Applicants must be U.S. citizens and must have a Ph.D. or equivalent doctoral degree at the time of application (January 1999) from any physical, biological, or social science or any field of engineering. Person's with a master's degree in engineering and at least three years of post-degree professional experience may apply. Federal employees are not eligible for the fellowships. Stipends vary, with most in the \$45,000 to \$48,000 range. Application deadline is January 15, 1999. For further information call 202/326-6700, or visit our Web Site under Science and Policy Programs at www.aaas.org.

United States Environmental Protection Agency National Exposure Research Laboratory

PHYSICAL SCIENTIST GS-1301-11/12/13

The U.S. Environmental Protection Agency's National Exposure Research Laboratory in Research Triangle Park, North Carolina is seeking qualified candidates to fill multiple four-year term positions. The incumbent will be responsible for conducting exposure measurements or exposure modeling research in support of the Agency's Particulate Matter (PM) Program. PM measurements position responsibilities include designing, coordinating, and conducting field studies to better understand exposures to fine and ultrafine particulate matter; analyzing PM field study results; and reporting the results in the scientific literature. PM modeler position responsibilities include developing and validating personal and population PM exposure and dose models; statistically analyzing available PM exposure data and developing input variables for PM exposure models; integrating microenvironmental PM pollution data with demographic and cohort-specific time activity data; and reporting the study results in the scientific literature.

These are full-time term positions not-to-exceed four years. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management qualification requirements including specific educational coursework. Candidates should have the required education and/or experience as described in the announcements listed below. Salary ranges from \$38,593 to \$71,503 and is commensurate with qualifications. The selected candidates will be eligible for full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave.

HOW TO APPLY: All applicants must apply through the U.S. Office of Personnel Management (OPM) by calling the OPM automated jobline on (919) 790-2822 or accessing OPM via Internet at http://www.usajobs.opm AND requesting an OPM package for (Modeling) AR2025 or (Measurements) AR2013. Application materials must be received by January 22, 1999.

INTERDISCIPLINARY POSITION ENVIRONMENTAL, CHEMICAL, OR MECHANICAL ENGINEER

GS-0819/0893/0830-11/12/13

The U.S. Environmental Protection Agency's National Exposure Research Laboratory in Research Triangle Park, North Carolina is seeking qualified candidates to fill multiple four-year term positions. The incumbent will be responsible for conducting exposure measurements or exposure modeling research in support of the Agency's Particulate Matter (PM) Program. PM measurements position responsibilities include designing, coordinating, and conducting field studies to better understand exposures to fine and ultrafine particulate matter; analyzing PM field study results; and reporting the results in the scientific literature. PM modeler position responsibilities include developing and validating personal and population PM exposure and dose models; statistically analyzing available PM exposure data and developing input variables for PM exposure models; integrating microenvironmental PM pollution data with demographic and cohort-specific time activity data; and reporting the study results in the scientific literature.

These are full-time term positions not-to-exceed four years. U.S. citizenship is required and candidates must meet U.S. Office of Personnel Management qualification requirements including specific educational coursework. Candidates should have the required education and/or experience as described in the announcements listed below. Salary ranges from \$41,489 to \$71,503 and is commensurate with qualifications. The selected candidates will be eligible for full benefits package, including relocation expenses, health insurance, life insurance, retirement, and vacation and sick leave.

HOW TO APPLY: All applicants must apply through the U.S. Office of Personnel Management (OPM) by calling the OPM automated jobline on (919) 790-2822 or accessing OPM via Internet at http://www.usajobs.opm AND requesting an OPM package for (Measurements) Environmental AR2004; Chemical AR2007 or (Modeling) Environmental AR2016; Chemical AR2019 and Mechanical AR2022. Application materials must be received by January 22, 1999.

The U.S. EPA is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR COMPUTATIONAL FUNCTIONAL GENOMICS DEPARTMENT OF GENETICS Harvard Medical School

A Department of Genetics initiative invites applicants for the position of Assistant Professor. The incumbent will face the challenge of integrating new developments in genotyping, RNA and proteomic analysis with modeling of networks, populations, and complex genetic traits. Qualifications include a strong potential for imaginative research in the areas of bioinformatics, genetic epidemiology, and/or functional genomics. This position offers remarkable scholarly and scientific resources for independent research as well as the opportunity to teach graduate, medical, and postgraduate students with a strong interest in modern genetics.

Applicants should submit, by January 15, 1999, curriculum vitae, bibliography, a brief (limit to 500 words) description of research interests, and request three references to send letters of recommendation. These materials should be directed to:

Dr. Philip Leder, Chairman Department of Genetics Harvard Medical School 200 Longwood Avenue Boston, MA 02115

Additional information can be found at website: http://arep.med.harvard.edu/cfg.html.

Harvard University is an Equal Opportunity/Affirmative Action Employer and encourages the application of qualified women and minorities.

ASSISTANT PROFESSOR PHYSIOLOGY/BIOPHYSICS University of Nebraska Medical Center

The Department of Physiology and Biophysics at the University of Nebraska Medical Center invites applications for a tenure-track faculty position at the Assistant Professor level. We seek an individual who will complement an existing faculty involved in various aspects of cardiovascular physiology with emphasis on neural control of the circulation and/or endothelial/smooth muscle function at the cellular and molecular levels. The candidate should possess a Doctorate and at least two years of postdoctoral experience. Evidence of extramural support will be an important consideration.

The successful candidate will join a department composed of 11 full-time faculty. He/she will be expected to establish a research program and teach in one of our physiology courses to either medical or allied health students. We offer significant laboratory space and a competitive clark and see the applications.

itive salary and set-up package.

Please send by March 1, 1999, a curriculum vitae, statement of research goals, and names of three references to Steven C. Sansom, Ph.D., Chair of Search Committee, Department of Physiology and Biophysics, University of Nebraska Medical Center, 984575 Nebraska Medical Center, Omaha, NE 68198-4575. The University of Nebraska Medical Center is an Equal Opportunity/ Affirmative Action Employer. Minorities and women are encouraged to apply.

ASSISTANT PROFESSOR (tenure track). Plant molecular biology, Department of Botany and Plant Pathology, Purdue University, beginning August 1999. A Ph.D. and postdoctoral experience in plant molecular biology, physiology, genetics, or related areas required. The primary responsibility will be to develop an innovative research program focused on fundamental problems in weed biology that is competitive for sustained extramural funding. Areas of emphasis may include functional genomics and genetics of weed species, molecular mechanisms of resistance to herbicides, molecular basis of plant suppression by allelopathic chemicals, or population biology of important weed species. The successful candidate will have access to the Purdue genomics facility and is expected to develop a graduate course in weed science and contribute to undergraduate teaching. To apply, send curriculum vitae, a brief description of research interests and teaching philosophy, and names, addresses, tele-phone numbers, and e-mail address of three references to: Dr. Carole Lembi, Department of Botany and Plant Pathology, 1155 Lilly Hall, Purdue University, West Lafayette, IN 47907-1155. Telephone: 765-494-4614; FAX: 765-494-0363; website: http://www.btny.purdue.edu/. Application deadline 15 February

Purdue University is an Equal Opportunity Employer and we encourage women and minorities to apply.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR PLANT BIOLOGIST THE UNIVERSITY OF ARIZONA Department of Plant Sciences

This tenure-track position (80 percent research and 20 percent teaching) is available at either the Assistant or Associate Professor level on July 1, 1999. The successful candidate is expected to develop an independent research program using genetic, biochemical, or cellular approaches to address important questions in the field of plant biology. We are particularly interested in applicants who are taking advantage of recent developments in functional genomics to improve understanding of fundamental plant processes. Opportunities exist for research collaborations with faculty in the department and in related departments through involvement in an interdepartmental graduate program in genetics. The successful candidate will be expected to participate in undergraduate and graduate teaching, and to provide leadership in the development of a center for functional plant genomics. The position requires a Ph.D. and postdoctoral experience in an appropriate discipline. Candidates must demonstrate excellence in research and the communication skills necessary to be an effective teacher. In addition, the individual must have an ability to attract extramural funding. The salary will depend upon qualifications and experience. Review of applications begins February 1, 1999, and continues until the position is filled. Send letter of application including statement of research and teaching interests, résumé, and the names of three references to:

Richard Jorgensen
Department of Plant Sciences
The University of Arizona
Tucson, AZ 85721
Telephone: 520-626-9216
FAX: 520-621-7186
E-mail: raj@ag.arizona.edu
Website: http://ag.arizona.edu/PLS/

The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/ Veterans.

The USDA, Agricultural Research Service (ARS) Red River Valley Agricultural Research Center at Fargo, North Dakota is seeking a highly qualified individual with an established record of experience to serve as an AGRI-CULTURAL ADMINISTRATOR (CENTER DI-RECTOR). Salary would be commensurate with experience and would range from \$64,998 per annum to \$99,397 per annum. Responsibilities include management and oversight of an interdisciplinary scientific staff in addition to supervision of administrative staff. Current research is being done to (1) reduce the impact of foreign chemicals in animals used for food, (2) control of perennial invasive weeds, (3) control and manage harmful and beneficial insects, (4) develop improved germplasm of wheat, barley, oats, sugarbeets, and sunflowers, (5) develop improved quality tests for small cereal grains, and (6) improve nutritional quality of potatoes and reduce postharvest loss. A degree in a field of science associated with agricultural crops such as physiology, biochemistry, genetics, molecular biology, plant pathology, entomology, or related disciplines or a combination of education and experience is needed to qualify. A Ph.D. is highly desirable. Applicants must have excellent communication and interpersonal skills with a demonstrated ability to guide research programs and provide leadership. This is a permanent, full-time position and applicants must be U.S. citizens. For application information and procedures, you may call Paula Bovee, Telephone: 970-229-5503 or write to: USDA, ARS, HRD, WOB, 5601 Sunnyside Avenue, Beltsville, MD 20705-5106. A full copy of the job announcement is available on ARS website: www. ars.usda.gov/afm/hrd/resjobs. Applications accepted November 9, 1998, to January 11, 1999. Applications must be postmarked by January 11, 1999. ARS is an Equal Opportunity Employer.

BOTANIST/ARBORETUM DIRECTOR. Hillsdale College seeks full-time, tenure-track ASSISTANT PROFESSOR of biology, for fall 1999. Requires strong commitment to teaching in a small liberal arts college, and ability to interact with a variety of people and colleagues. Prefer a Ph.D. in botany or horticulture with related experience. Send letter of application, three letters of reference, and curriculum vitae to: Dr. Donald Toczek, Biology Department, Hillsdale College, Hillsdale, MI 49242. Deadline February 26, 1999. Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT PROFESSOR CENTER FOR INFECTIOUS DISEASE AND VACCINE RESEARCH University of Massachusetts Medical School

Creative, enthusiastic Molecular Geneticist is being recruited to join a team of NIH-funded Investigators in a recently established interdepartmental Center devoted to understanding the molecular basis of the immunopathogenesis of human viral infections and to their prevention by novel T-cell-based vaccine strategies. We seek a well-trained Molecular Geneticist, with a strong record of postdoctoral training and productivity, who will successfully interact with other faculty members in the Center, as well as pursue her/his own research interest, consistent with the overall theme of the Center. This faculty member would be expected to join the University of Massachusetts Medical School Graduate School Interdepartmental Program in Immunology and develop the potential for training graduate students and Postdoctoral Fellows on NIH-funded training grants. Substantial start-up support and laboratory facilities are available.

Contact e-mail: alan.rothman@ummed.edu. For information, website: www.ummed.edu/dept/CIDVR.
Mail responses to:

Alan L. Rothman, M.D., Co-Director Center for Infectious Disease and Vaccine Research University of Massachusetts Medical School 55 Lake Avenue North Worcester, MA 01655

UMMC is an Equal Opportunity Employer.

ASSISTANT PROFESSOR of plant molecular genetics. Purdue University, Department of Agronomy. Tenure-track position for August 1999. Successful applicant will pursue a vigorous, extramurally funded research program using genomic technologies to improve plants of agricultural importance. Research area is open, but interest in abiotic or biotic stress, plant development, or plant genome organization, structure, and function is desirable. Scientists using large-scale genomic approaches such as positional cloning, expressed sequence tagging, and/or gene expression profiling are especially encouraged to apply. The applicant will also teach in plant genetics, and will contribute to graduate and postdoctoral training programs. Willingness to engage in cooperative research and educational activities with Plant Breeders, Physiologists, Biochemists, Plant Pathologists, and Entomologists is expected. Encourage interactions with other members of the strong plant biology community at Purdue. Ph.D. in plant genetics or plant molecular biology required; postdoctoral experience is desirable. Submit a letter of application that includes a statement of professional goals and aspirations, a complete curriculum vitae with publication list, transcripts of all college courses, and the names, addresses, and telephone numbers of four references to: William W. McFee, Head, Department of Agronomy, 1150 Lilly Hall, Purdue University, West Lafayette, IN 47907-1150. Telephone: 765-494-4774. Application deadline is January 31, 1999, or until a suitable applicant is identified. Purdue University is an Equal Oppo tunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR/PROFESSOR position. The Department of Physiology and Biophysics at the School of Medicine of the University of Louisville's Health Sciences Center invites applications for a tenuretrack faculty appointment at the rank of Associate Professor or Professor. The University of Louisville is a statesupported institution that has embarked on a well-funded Challenge for Excellence to significantly increase research opportunities and activities in focused areas. The Department has an emphasis in cardiovascular physiology and offers excellent opportunities for collaboration in the areas of hypertension, heart failure, ischemia/reperfusion injury, shock, diabetes, and microvascular controls. Applicants with research interests in molecular cardiovascular/circulatory physiology are sought. Candidates must have a Ph.D., M.D., or equivalent degree. The successful applicant is expected to have and maintain a nationally recognized research program, extramural funding, and experience in graduate and professional student training. Applications will be accepted through January 31, 1999, or until a suitable candidate is identified. Send a curriculum vitae including past and current research funding, a statement of research interests and career goals, and the names of at least three references to: John T. Fleming, Ph.D., Search Committee, Department of Physiology and Biophysics, Health Sciences Center A-1115, University of Louisville, Louisville, KY 40292. Equal Opportunity Employment/Affirmative Action. Women and ininorities e encouraged to apply.

Faculty Position Available

The Department of Biological Sciences at Stanford University seeks applicants for a faculty appointment in the area of biochemical and/or biophysical approaches to study basic cell biological problems. We are primarily seeking candidates for a tenure-track assistant professorship; however, outstanding candidates for appointment at the level of associate or full professor will be considered. 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 a letter of application (include e-mail address), curriculum vitae, bibliography, names of three references, and statements of research and teaching interests and teaching experience to:

Cell and Molecular Search Committee Department of Biological Sciences 371 Serra Mall Stanford University Stanford, CA 94305-5020

To receive full consideration, materials should be received by January 15, 1998. The term of appointment would begin September 1, 1999. Stanford University is an Equal Opportunity, Affirmative Action Employer; women and minority candidates are encouraged to apply.

THE NEUROSCIENCES INSTITUTE SAN DIEGO, CALIFORNIA

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 recently established experimental facilities; it is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists. For additional information see http://www.nsi.edu. The Institute invites applications for the following positions:

JUNIOR FELLOW, NEURAL BASIS OF CONSCIOUSNESS

The Institute has a strong tradition in the theoretical and experimental study of consciousness. Applicants interested in collaborating on experimental and theoretical studies of the neural correlates of conscious perception should have a background in cognitive neuroscience and neuroimaging (including MEG, EEG, and fMRI). Experience with designing visual and auditory stimulation paradigms and with the statistical analyses of imaging data is especially desirable.

ASSOCIATE FELLOW, NEUROPHARMACOLOGY

Applicants should have a strong background in central nervous system pharmacology and should be at the advanced postdoctoral or Assistant Professor level. Successful candidates will be capable of developing an innovative research program and will be expected to take advantage of opportunities for scientific interactions with Fellows in Experimental and Theoretical Neurobiology.

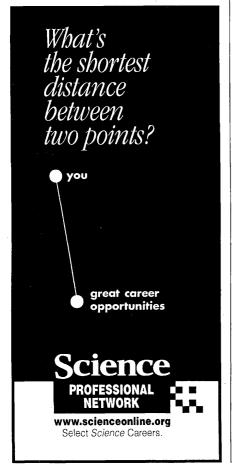
POSTDOCTORAL FELLOW IN EXPERIMENTAL NEUROBIOLOGY

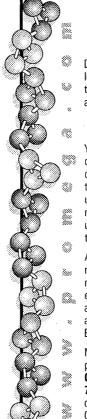
A current focus of the Institute is on the action and pharmacological manipulation of neuromodulatory systems with diffuse projections, such as the noradrenergic, serotonergic, cholinergic, dopaminergic, and histaminergic systems. Another focus of the Institute is on gene networks that affect the development and function of the nervous system. Other research areas include systems neurophysiology, *Drosophila* genetics, neural development, and the functions of sleep. Applicants should have a strong background relevant to ongoing research in the above-mentioned areas. Ph.D. or equivalent required at time of employment.

JUNIOR FELLOW IN THEORETICAL NEUROBIOLOGY

Since 1987 the Institute has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks and analysis of functional interactions among brain areas using approaches based on information theory. Advanced computing facilities are available. Applicants should be at the postdoctoral level with a strong background in mathematics, statistics, and computer modeling.

All Fellows receive stipends and research support commensurate with qualifications and experience. Positions are now available. Applications should contain a short statement of research interests, a curriculum vitae, and the names of three references and should be sent to: Research Director, The Neurosciences Institute, 10640 John Jay Hopkins Drive, San Diego, CA 92121.





Make a POWER move to PROMEGA

Discover more powerful career opportunities at Promega. A world biotechnology leader, Promega offers competitive salary, comprehensive benefits and opportunities for career advancement. Promega provides the perfect environment for living and working with headquarters in Madison, WI one of America's most livable cities.

Technical Services Scientist

You will provide technical support for Promega products and related molecular biochemical applications via telephone, fax and internet to domestic and international customers and Promega staff; and track, follow-up and document relevant information from these contacts. You will also interact with Promega's international distributors and branch offices; and act as a liaison between the customer and all departments at Promega to refine existing products and pursue suggestions for new products and procedures. You will write and edit technical and marketing support literature and provide technical training to customers as well as Promega staff.

A BS/MS/Ph.D. degree in Molecular Biology, Cell Biology, Protein Biochemistry or related area; and 3+ years' lab experience and practical knowledge of current methods are required. The ability to discuss fundamentals and technical theory of experimental design, techniques and results; excellent communication, listening and customer service skills; and the ability to stay current in technical knowledge are also required. Computer experience (PC network, Windows, Word, FoxPro, Excel, Internet) is preferred. Fluency in languages in addition to English is desirable.

Make a power move in your career to Promega. For confidential consideration, please mail or e-mail your resume with salary requirements, to: **Promega**

Corporation, P.O. Box 7879, Madison, WI 53707-7879. E-mail: hr@promega.com. To find out about other opportunities at Promega please call our Career Opportunities Line at (800) 356-9526 option 9. EOE



POSITIONS OPEN

ASSISTANT PROFESSOR POSITIONS MICROBIOLOGY AND PLANT BIOLOGY

The Department of Botany and Microbiology at Auburn University invites applications for two tenure-track positions at the Assistant Professor level. The successful candidate for the microbiology position will teach courses in prokaryotic genetics and general microbiology, and have a research focus in some area of prokaryotic genetics. The successful candidate for the plant biology position will teach courses in molecular genetics and in general biology. His or her research focus should be in some area of plant molecular/cellular biology. Candidates for each position will also be expected to develop a graduate course in their area of expertise. A Ph.D. degree in a relevant field is required, and postdoctoral experience and a demonstrated ability to establish a strong independent and extramurally funded research program are preferred. Evaluation of applications will begin January 15, 1999, and will continue until a candidate is recommended for appointment. Further information is available on the Internet at website: http://www.auburn.edu/bm/.

Candidates should forward a curriculum vitae, brief statement of future research interests and teaching experience, and have three reference letters sent to: Dr. James Barbaree, Chair, Search Committee, Department of Botany and Microbiology, Room 101, Life Sciences Building, Auburn University, Auburn, AL 36849. E-mail: jbarbare@acesag.auburn.edu. Auburn University is an Equal Opportunity/Affirmative Action Employer, and actively seeks applications from qualified women and minority candidates.

UNIVERSITY OF CALIFORNIA, DAVIS SCHOOL OF MEDICINE

The Basic Science Departments of the School of Medicine invite applications for a full-time, tenure-track faculty position at the ASSISTANT PROFESSOR level in cell physiology/cell biology. Applicants should have a Ph.D. and/or M.D. degree and at least two years of postdoctoral experience. The most important criteria are (1) a record of excellence in research that demonstrates strong potential for building an independent, competitive research program and (2) communication skills demonstrating the potential to achieve excellence in teaching medical and graduate students. Consideration will be given to candidates studying vertebrate cell signaling/function and employing molecular, cell biologic, and/or electrophysiologic approaches. Areas could include gene expression, nuclear receptors, transmembrane signaling, membrane transport, ion channels, and intracellular trafficking. Applicants should submit (1) a curriculum vitae (including teaching experience); (2) a synopsis of past, present, and future research goals; (3) up to three representative reprints; and (4) four letters of reference to: Chair, Basic Sciences Search Committee, c/o Beverly Settle, Office of the Dean, School of Medicine, East Health Sciences Drive, University of California, Davis, CA 95616. This position will be open until filled; for full consideration, applications should be received by April 30, 1999. For additional information see our website: http://medres.ucdavis.edu/pages/SOMOR/recruit.html. The University of California is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT to FULL PROFESSOR, Behavioral Medicine Division, Wayne State University School of Medicine, Department of Psychiatry and Behavioral Neurosciences. Ph.D. or M.D. with strong research record sought to conduct independent and collaborative research in cardiovascular psychophysiology, genetics, hormones and vascular function, menopause, or related areas. Demonstrated funding ability required. Send curriculum vitae, reprints, and statement of research interests to: Robert R. Freedman, Ph.D., Professor and Director, 275 East Hancock, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer

ASSISTANT PROFESSORS THREE POSITIONS

(1) Conservation biology. (2) Developmental biology. (3) Ecology. Details at: Biology Department, Fort Hays State University, 600 Park, Hays, KS 67601. Telephone: 785-628-4214; FAX: 785-628-4153; website: http://www.fhsu.edu/biology/vacancies.htm. Deadline 18 January 1999. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN



ENTRY-LEVEL TENURE-TRACK OPENING CHEMICAL ENGINEERING

The Chemical Engineering Department at Tufts University is seeking to fill a tenure-track position at the ASSISTANT PROFESSOR level starting September 1, 1999. A Ph.D. or equivalent in chemical engineering or a related field is required. Expertise should be in a field of applied biology such as bioengineering, biomedical engineering, biochemical engineering, or biotechnology; or in a core chemical engineering subject with application to such a field. Send curriculum vitae, names/addresses of three references, and research plan to: Faculty Search Committee, Chemical Engineering Department, Tufts University, Medford, MA 02155. Review of applications begins December 15, 1998, and will continue until the position is filled. Tufts University is an Affirmative Action/Equal Opportunity Employer. We are committed to increasing the diversity of our faculty. Members of underrepresented groups are strongly encouraged to apply.

BIOENGINEERING FACULTY POSITIONS

The University of Illinois at Chicago, Department of Bioengineering, invites applications for full-time, tenure-track position at the ASSISTANT, ASSOCIATE, and track position at the ASSISTANT, ASSOCIATE, and FULL PROFESSOR levels. Desired areas of interest include tissue engineering, bioMEMS, biooptics, neural-engineering, and medical imaging. The Department of Bioengineering offers B.S., M.S., and Ph.D. degrees, and has a strong emphasis on graduate training and research. The present enrollment is approximately 100 undergraduate and 50 graduate students. Additionally, an M.D. Ph.D. program is offered jointly by the Department of Bioengineering and the College of Medicine. Campus Facilities include the Microfabrication Applications Laboratory, the Biomedical Visualization Laboratory, the Biologic Resource Center, complete animal care facilities, and extensive computer resources. These positions must be filled by the fall of 1999. The candidate is expected to establish a strong research program, develop new courses in bioengineering, and contribute to the development of the new multidisciplinary activities in the Department of Bioengineering. For fullest consideration, please send a detailed curriculum vitae, reprints of publications, a statement of research interests, and the names of three references by February 1, 1999, to:

R. L. Magin, Ph.D., Chairman Faculty Search Committee University of Illinois at Chicago Department of Bioengineering (M/C 063) 851 South Morgan Street, Room 218 SEO Chicago, IL 60607-7052

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

ASSISTANT PROFESSOR (tenure track). Fungal biology, Department of Botany and Plant Pathology, Purdue University, beginning August 1999. A Ph.D. and postdoctoral expreience in plant pathology, mycology, cell biology, genetics, or other relevant areas emphasizing research on fungi. The primary responsibility will be to develop an innovative research program focused on fun-damental problems in fungal biology that is competitive for sustained extramural funding. Areas of emphasis include functional genomics and genetics, cell and molecular biology, developmental biology, biochemistry, biophysics, population biology, phylogenetics, and evolutionary biology, with the total effort embracing model fungal systems, fungal plant pathogens, and/or host-par-asite interactions. The successful candidate will have ac-cess to the Purdue genomics facility and will be expected to develop an undergraduate course in contemporary fungal biology/mycology and a graduate course in their area of expertise. To apply, send curriculum vitae, a brief description of research interests and teaching philosophy, and names, addresses, telephone numbers, and e-mail addresses of three references to: Dr. Larry Dunkle, Department of Botany and Plant Pathology, 1155 Lilly Hall, Purdue University, West Lafayette, IN 47907-1155. Telephone: 765-494-4614; FAX: 765-494-0363; website: http://www.btny.purdue.edu/. Application deadline 15 February 1999.

Purdue University is an Equal Opportunity Employer and we

encourage women and minorities to apply,

POSITIONS OPEN

DIRECTOR OF THE SAVANNAH RIVER ECOLOGY LABORATORY THE UNIVERSITY OF GEORGIA Aiken, South Carolina

The University of Georgia (UGA) is seeking nominations and applications for the position of Director of the Savannah River Ecology Laboratory (SREL). The Director is expected to be appointed to the rank of Full Professor in an appropriate academic unit of the University of Georgia and will report directly to the Vice President for Research and Associate Provost. The UGA contracts with the Department of Energy (DOE) to conduct environmental research on the Savannah River Site (SRS) near Aiken, South Carolina; SREL is located at the SRS. The Director is the primary interface between the SREL, DOE, and UGA and has the responsibility for establishing the direction and overall management of the SREL research, education, and service programs. Researchers at SREL conduct ecological research that integrates environmental chemistry with biology to address environmental cleanup, natural resources management, and the effects of DOE activities on the ecosystems of the SRS. Contaminants of concern include heavy metals, organics, and radionuclides. SREL currently has a staff of approximately 175, including 30 Ph.D's, and an annual operating budget of about \$11 million. Candidates should have a strong record of successfully funded research and administrative experience, *must be a U.S. citizen*, and must be able to obtain security clearance from DOE for work on the SRS. A cover letter, curriculum vitae, and list of references should be submitted to: Dr. H. Ronald Pulliam, Chair, Search Committee, The University of Georgia, 710 Biological Sciences Building, Athens, GA 30602. Review of applications begins February 15, 1999, and applications received by that date are assured of consideration. The University of Georgia is an Equal Opportunity and Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR WEST VIRGINIA SCHOOL OF OSTEOPATHIC MEDICINE

The Division of Structural Biology invites applications for a tenure-track position in the area of developmental or cellular biology. The successful applicant will teach developmental biology, and molecular and medical genetics, to first- and second-year medical students, in addition to meeting usual academic responsibilities. Opportunities exist for reseach in the applicant's area of expertise or interest. The applicant is expected to have had postdoctoral experience. Salary commensurate with experience and includes excellent fringe benefit package. Qualified applicants may apply by submitting a current curriculum vitae, including statements of teaching experience and research interests, and three letters of recommendation to: Chairperson, Assistant/Associate Professor of Developmental/Cell Biology Search Committee, Human Resource Department, West Virginia School of Osteopathic Medicine, 400 North Lee Street, Lewisburg, WV 24901. Applications will be accepted until January 31, 1999.

The West Virginia School of Osteopathic Medicine is an Affirmative Action/Equal Opportunity Employer and encourages applications from all protected classes.

Biology. Two ASSISTANT PROFESSORS, August 1999. (1) PLANT ECOLOGIST to teach ecology, plant ecology. (2) PLANT MOLECULAR BIOLO-GIST to teach plant biology, molecular/cellular biology. Both require Ph.D. and strong commitment to gy. Both require Ph.D. and strong commitment to undergraduate teaching and research. Priority deadline January 25, 1999. Send inquiry to: Chair, Department of Biology, University of Wisconsin-Eau Claire, Eau Claire, WI 54702-4004. E-mail: glennale@uwec.edu; Telephone: 715-836-4166; FAX: 715-836-5089. More information, website: www.uwec. edu/Academic/Biology/biology.html. Equal Opportunity/Affirmative Action Employer.

Biochemistry. Full-time ASSISTANT PROFESSOR, non-tenure-track, renewable contract, beginning August 1999. Duties include teaching undergraduate courses for science and non-science majors. Should be able to work with a team to develop interdisciplinary courses(s). Ph.D. in biochemistry and teaching experience required. Send letter of application, curriculum vitae, graduate transcripts, and three letters of recommendation to: Dr. Estry Ang, Chair, Biochemistry Search Committee, University of Pittsburgh at Greensburg, PA 15601. Applicatin deadline: February 15, 1999. Affirmative Action/Equal Opportunity Employer.

CHT

POSTDOCTORAL TRAINING OPPORTUNITY

The Chemical Industry Institute of Toxicology (CIIT) in Research Triangle Park, NC is seeking a postdoctoral fellow in its Endocrine, Reproductive, and Developmental Toxicology program to study steroid receptor-mediated mechanisms of endocrine-active chemicals to collaborate on a multi-institutional effort to characterize chemical interaction with estrogen receptors alpha and beta. A Ph.D. in Pharmacology, Toxicology, Molecular Biology, Biochemistry, or a related discipline is required. Experience in cell and molecular biology, and steroid receptors is preferred.

CIIT research programs focus on creating mechanistic information to reduce uncertainty in estimating human health risks from chemical exposures. CIIT doctoral staff members have backgrounds in aerosol science, molecular and cellular biology, veterinary medicine, pharmacology and toxicology, pathology, biochemistry, chemistry, biomathematics, biostatistics, and engineering. CIIT offers exciting opportunities to use contemporary research approaches and instrumentation to address real world issues. Over the past 20 years, more than 160 postdoctoral fellows have been trained at CIIT and are now employed in responsible positions in industrial, government, and academic organizations.

Applications are being accepted through February 1, 1999. Appointments are typically two years in length. CIIT offers a highly competitive salary and benefits package, and a stimulating research environment. To apply call (919) 558-1402 and refer to the "Postdoctoral Fellow" position. Additional information about CIIT's research programs and applications can be obtained from our website: http://www.ciit.org. CIIT is an EEOC Employer.

GLOBAL OPPORTUNITIES



POST-DOCTORAL FELLOWSHIPS

The New Zealand Science & Technology Post-Doctoral Fellowships Scheme provides early career support for young New Zealand scientists of outstanding talent, for two years post-doctoral research either locally or overseas. Applicants must be citizens or permanent residents of New Zealand.

Fellowships will have a value of NZ\$ 65,000 per year; stipend of NZ\$44,444 with the balance available to cover associated costs.

Applications close 4.30pm on Friday, 26 March 1999. An application form is available from:

Foundation for Research, Science and Technology

P O Box 12-240 Wellington,

New Zealand

Tel: 64 4 498 7800 Fax: 64 4 499 2568

Email: pdfs@frst.govt.nz Website: www.frst.govt.nz

CARDIFF

The Cardiff Research Fellowships

(50 Permanent, Five-Year and Three-Year Appointments)

As part of a continuous programme of investment, Cardiff University will appoint up to a further 50 Cardiff Research Fellows at all points on the academic ladder.

Fellowships are available to outstanding candidates at any level from professorial to post-doctoral. They will carry the titles Cardiff Professorial Fellow, Cardiff Senior Research Fellow or Cardiff Research Fellow.

Professorial Fellow (salary from K£35 upwards)

Available for at least five years; permanent posts will be made available in selected cases.

Senior Research Fellow (salary range ca. K£25-K£35)

Available for five years in the first instance; permanent posts may be made available for outstanding candidates.

Research Fellow (salary range ca. K£18-K£25)

Available for three years in the first instance with extensions possible, consequent on performance; exceptional candidates in certain areas may be offered permanent appointments.

All of the posts are to be held at Cardiff and will be available from Summer 1999. The Fellowships are open to researchers in any of Cardiff's academic disciplines. Preference may be given, however, to those whose interests are in line with the University's existing research priorities.

To find out more about these exciting opportunities visit Cardiff's website at http://www.cf.ac.uk where details of departmental research interests and contact details may be found. Applicants are also encouraged to make direct contact with the appropriate department.

Cardiff offers an exciting environment for outstanding research staff. This includes the University's location within a beautiful capital city that is culturally active and economically

buoyant. The University operates modern personnel practices which offer a wide-ranging, generous package to the advantage of its employees.

Cardiff encompasses a breadth of academic activity across natural and physical sciences, a large engineering faculty, a core of social sciences, traditional arts and humanities schools and disciplines based in professional studies. Major new developments include the creation of the Cardiff School of Biosciences and the Cardiff School of Social Sciences. The University also enjoys a strong partnership with the University of Wales College of Medicine with shared research interests. At the 1996 Research Assessment Exercise, Cardiff University was placed 15th in the UK for the quality of its research. More than 80% of staff are in departments rated 5*, 5 or 4.

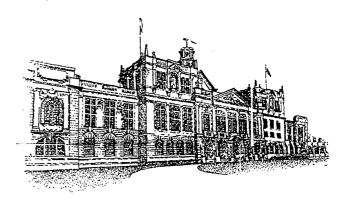
Applications:

Applications should include details of the department and the member(s) of staff, if appropriate, with whom the applicant would like to be associated; full details of publications and any research grants, together with the subject area, date and place awarded of the applicant's PhD. Candidates must include a brief summary of their future research plans with their application. Applicants from non-UK/EEA countries should be aware of the need to satisfy requirements for work permits to take up these posts.

All candidates must demonstrate a proven publishing track record in order to merit serious consideration. To make an application send a CV, preferably by e-mail, to PERSAD1@CF.AC.UK. Alternatively, applications can be mailed to the Personnel Division, 50 Park Place, Cardiff CF1 3AT, UK; telephone +44 (0) 1222 874017.

Closing date: **12 January 1999** (The University reserves the right to continue to consider outstanding candidates thereafter).

Please quote reference number 99/01.





SCIENTIFIC DIRECTOR

Sidney Kimmel Cancer Center (SKCC) invites applications for the endowed position of Scientific Director and Professor of the Sidney Kimmel Cancer Center (SKCC), located in the La Jolla area of San Diego.

SKCC is a not-for-profit cancer research institute with programs in basic, translational, and clinical cancer research and an emphasis on molecular and cell biology and immunology. More information can be derived from the website: www.skcc.org.

The Scientific Director will play an instrumental role in the scientific leadership of the organization, recruitment of new faculty, planning of a new state-of-the-art research facility, and application for an NCI Cancer Center Support Grant. The applicant will also have the ample opportunity to collaborate with faculty of neighboring research institutions.

The applicant should be an individual with either a Ph.D. or M.D. degree with an excellent record of accomplishment in cancer research and with proven leadership and personal abilities to direct the scientific program of a moderate-size research institute.

Send curriculum vitae and names and addresses of references to:

Dr. Ivor Royston Scientific Director Search Committee–SCI Sidney Kimmel Cancer Center 10835 Altman Row San Diego, CA 92121

Affirmative Action/Equal Opportunity Employer.

PROGRAM DIRECTOR HUMAN NUTRITION/FOOD SAFETY

The National Research Initiative Competitive Grants Program of the U.S. Department of Agriculture (USDA) seeks a qualified scientist to serve as Program Director for grants administration in the area of human nutrition and food safety. Candidates must have an advanced degree with major study in human nutrition or food safety, or related disciplines such as nutritional biochemistry, physiology, dietetics, food microbiology, food science, food chemistry, public health, epidemiology, risk-assessment, or toxicology. Candidates must be U.S. different and it is preferable that candidates have a Ph.D. or equivalent specialized experience.

Applications must be postmarked by January 19, 1999. For programmatic information about the position, contact: Dr. Peter Johnson, Division Director, National Research Initiative Competitive Grants Program, The Cooperative State Research, Education, and Extension Service/USDA, Stop 2241, 1400 Independence Avenue S.W., Washington, DC 20250-2241. Telephone: 202-401-1896; FAX: 202-205-3641; e-mail: pjohnson@reeusda.gov. For information on application procedures/forms, contact: The USDA Human Resources Division, Telephone: 202-720-6130. USDA is an Equal Opportunity Employer.

ASSISTANT PROFESSOR of agronomy, molecular quantitative genetics (tenure-track). Purdue University Department of Agronomy. Develop a creative research program on computational and statistical methodology for analyzing, interpreting, and exploiting molecular genetic data (i.e., DNA sequences, mRNA expression profiles, molecular markers). Establish productive interactions with industry, develop a strong publication record, attract extramural funding, teach an undergraduate course in genetics, and participate in the department graduate education program. Interaction and collaborative research with scientists in genomics, crop breeding, quantitative genetics, and statistics is expected. Ph.D. in genetics, statistics, computational biology, or in related field. A strong theoretical background along with applied computational skills are essential. Postdoctoral experience is preferred. Submit a letter of application that includes a statement of professional goals and aspirations, a complete curriculum vitae with publication list, transcripts of all college course work, and the names, addresses, and telephone numbers of four references to: Dr. William W. McFee, Head, Department of Agronomy, 1150 Lilly Hall of Life Sciences, Purdue University, West Lafayette, IN 47907-1150. Telephone: 765-494-4774. Applications accepted until January 15, 1999, or until a suitable applicant is selected. Purdue University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN



TENURED/TENURE-TRACK POSITION IN VIRAL ONCOGENESIS

The HIV and AIDS Malignancy Branch (HAMB), NCI, is searching for a tenure-track or tenured INVESTIGA-TOR in the field of viral oncogenesis. It is anticipated that the Investigator will establish an independent research program targeted to the study of the pathogenesis, treatment, and/or prevention of viral-induced tumors. The research program should be able to interface with a strong existing clinical research program in adults and children with AIDS and AIDS-related tumors. Current areas of research for HAMB focus on HIV protease, Kaposi's sarcoma-associated herpesvirus (KSHV/HHV-8), and the development of novel therapeutic interventions for HIV infection. Candidates for the position should have an M.D., a Ph.D., or an M.D.-Ph.D. and strong research credentials. Applicants for this position should submit a curriculum vitae including bibliography, a statement of research interests, a two-page outline of the proposed research program, and the names of three references to: Chairman, Search Committee, HIV and AIDS Malignancy Branch, NCI, Attention: Andrea Milor, Building 10, Room 12N226, 10 Center Drive, MSC 1906, Bethesda, MD 20892-1906. The deadline for applications is January 15, 1999

The National Cancer Institute is an Equal Opportunity Employer.

ASSISTANT/ASSOCIATE SPECIALIST ORNAMENTAL HORTICULTURE THE UNIVERSITY OF ARIZONA Department of Plant Sciences

The position is a continuing-track (75 percent extension and 25 percent research) 12-month appointment available at the Assistant/Associate Specialist level on July 1, 1999. The successful candidate is expected to develop an independent extension and applied research program that addresses the needs of the commercial landscape management and nursery production industry in Arizona The individual is also expected to take a leadership role in providing technical expertise, training; and educational materials for Extension Agents and clientele in the ornamental landscape industry. Opportunities exist for collaborations with faculty in the Department, the College of Agriculture, and in various counties in the State. The successful candidate may participate in undergraduate teaching of horticulture and in graduate student training. Qualifications: The position requires a Ph.D. degree in horticulture or a closely related field with an emphasis on ornamental plants. Candidates must have demonstrated excellence in applied research and extension, and communication skills necessary to be effective in nonresident and resident instruction. In addition, the individual must have an ability to attract extramural funding. Salary: will depend upon qualifications and experience. Review of applications begins February 1, 1999, and continues until a suitable candidate is found. Send letter of application, curriculum vitae with statement of research/extension interest, copies of transcripts, and three letters of reference to: Dr. Michael W. Kilby, Department of Plant Sciences, The University of Arizona, Tucson, AZ 85721. Telephone: 520-621-1400. The University of Arizona is an Equal Employment Opportunity/Affirmative Action Employer. Minorities/Women/Disabled/Veterans

TENURE-TRACK POSITION PROTEIN BIOGENESIS IN THE ENDOPLASMIC RETICULUM

A tenure-track position is available in the Cell Biology and Metabolism Branch, National Institute of Child Health and Human Development, to develop an independent research program on the molecular mechanisms of protein biogenesis in the endoplasmic reticulum and their relation to human disease. Preference will be given to individuals with an M.D. or M.D.-Ph.D. degree. U.S. ditenship is required. Applicants should submit a curriculum vitae, bibliography, three letters of recommendation, and a two-page statement of research interests and goals. These should be postmarked by January 4, 1999, and addressed to: Chair, Cell Biology and Metabolism Branch Search Committee, Building 18T, Room 101, NIH, 18 Library Drive, MSC 5430, Bethesda, MD 20892-5430.

NIH is an Equal Opportunity Employer.

POSITIONS OPEN



The United States Department of Agriculture, Agricultural Research Service, is accepting applications for a permanent, full-time PHYSICAL SCIENTIST, BIO-LOGICAL SCIENTIST, ENGINEER, or related discipline. The salary range is \$47,066 to \$72,758 (plus three-percent increase cost-of-living adjustment as of January 1, 1999) per year. The position is located in the Remote Sensing and Modeling Laboratory, at the Natural Resources Institute in Beltsville, Maryland, and is open to all U.S. citizens. The objective of this position will be to develop relationships between the multispectral properties of plants and their environment with emphasis on crop growth, development, and yield for agricultural and natural resource applications. The incumbent will formulate relationships between plant response to the environment and spectral properties measured by a wide range of airborne and spaceborne sensors, and will evaluate the utility of present and proposed remote sensing systems for applications in agricultural and environmental assessment. Candidates must have a strong knowledge of environmental remote sensing, image analyses, aerial photography, and mathematical modeling and must have work ing knowledge in one or more of the plant and agronomic sciences. Skills in mathematical, statistical, and computer sciences necessary to perform quantitative research are required.

Åll applicants must request a copy of Vacancy Announcement ARS-X9E-9063. The closing date for the Vacancy Announcement is February 23, 1999. To request a copy of the announcement, Telephone: 301-504-1484; website: www.ars.usda.gov.

USDA/ARS is an Equal Opportunity Provider and Employer.

Remote sensing research. Applicants are sought for two National Research Council/NASA **RESIDENT RE**-SEARCH ASSOCIATESHIPS at Stennis Space Center (SSC). Competitive awards will be offered for research to be conducted in the Earth System Science Office at SSC. The awardees will work independently on projects of their own choosing. One awardee will work in remote sensing applications for coastal (Case 2) waters; development and validation of biooptical properties (algorithms) derived from ocean color, inwater optics data, or numerical models; and analysis of data for calibration-validation programs. The other awardee will work in the remote sensing of vegetation, specifically as it addresses physiological changes in response to the environment (e.g., forest re-covery from air pollution damage in the Czech Republic and responses to free-air CO2 enrichment in pine forests of the U.S. Coastal Plain). Applicants interested in oceanographic research should contact: Dr. Richard L. Miller, Telephone: 228-688-1904; e-mail: rmiller@ssc.nasa. gov for additional technical information. Those interested in the remote sensing of terrestrial vegetation should contact: Dr. Gregory A. Carter, Telephone: 228-688-1918; e-mail: gcarter@ssc.nasa.gov. Applications must be submitted by January 15, 1999, for an approximate start date in March 1999. Extension of the start date may be possible. Application materials are available from: The National Research Council, Associateship Programs, TJ2114/SC, 2101 Constitution Avenue N.W., Washington, DC 10418. FAX: 202-334-2759; e-mail: rap@nas.edu; website: http://rap.nas.edu. Qualified applicants will be reviewed without regard to race, creed, color, age, sex, or national origin.

DIRECTOR/TUNA-DOLPHIN RESEARCH ONE PERMANENT POSITION National Oceanic and Atmospheric Administration San Diego (La Jolla)

The Southwest Fisheries Science Center, a National Oceanic and Atmospheric Administration (NOAA) research facility, invites applications for a Research Director for tuna-dolphin investigations related to recent passage of the International Dolphin Conservation Program Act. This senior-level position will assume responsibility for research program design and interpretation related to determining whether fishery-related stress is having a significant adverse impact on dolphin stocks in the eastern tropical Pacific Ocean. U.S. dizensity required. Salary \$66,551 to \$101,773. Announcement number W/NMF/990006.Bs closes December 18, 1998; for details see website: http://www.usajobs.opm.gov/a9noa.htm; Telephone: 206-526-6294. An Equal Opportunity and Affirmative Action Employer.

Job opportunity

Vice President Business Development

Description Under the direction of the CSO and CEO, the Vice President Business Development will be responsible for promoting the company's technology to potential partners, creating strong partnerships and negotiating favorable deals. The candidate will perform market research for existing and potential projects. This team player will also assist in negotiating relationships with leading companies, academic and governmental collaborators by contacting and sourcing potential partners and will closely work with scientific and corporate staff members to plan and evaluate projects by performing markets research, analyzing patent portfolios and financial viabilities, and planning business models and market strategies. The candidate will prepare and join negotiations for corporate collaborations regarding licensing agrements and business opportunities.

He/she will keep track of industry trends, legislation and competitor activities.

Qualifications. A graduate degree in life sciences and an MBA. One to three years of direct business development experience with pharmaceutical, diagnostic and/or biotechnology industry with particular emphasis on enabling technologies in the diagnostic and drug discovery field is highly desirable.

Characteristics. Team player. Ability to grasp scientific technology and translate that knowledge to outside parties. Excellent oral and written communication skills. Highly organized work style. Analytical person. Sets high standards for integrity and business ethics. Strong presence with ability to communicate both with scientists and senior management.

Remunerations. Competitive arrangement, in line with experience and position. Full-time appointment.

ASD is a science-driven, molecular technology-based company, active in the areas of viral diagnostics, viral therapeutics and viral genomics and has an emphasis on emerging life-threatening viral infections with special attention to ecology, zoonoses and chronic persisting infections. In addition, viral genomics programs aim for drug discovery in chronic viral-induced neurological diseases. ASD is based in new facilities inside the Academic Medical Center Amsterdam and in a new, own building close to this site.

ASD is exploiting the experience and results of R&D-programs of its founder, Prof. Dr Jaap Goudsmit. ASD was founded in 1993 and employs 20 scientists. ASD collaborates with the Academic Medical Center as a main source of innovations.

Information and response. Your short application letter and resume can be sent to: Amsterdam Support Diagnostics B.V., P.O. Box 8323, 3503 RH Utrecht, the Netherlands, Attn: Dr Willem J. van Oort. For more information you can contact Dr Van Oort by telephone (+31 30 2938027), facsimile (+31 30 2941526) or e-mail (licentec@globalxs.nl).



EUROPEAN OPPORTUNITIES



Max Planck Institute for Demographic Research

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RESEARCH MANAGER (Job #98367B) Germplasm Security

Pioneer's Research Technology Services department is conducting a search for a Germplasm Security Research Manager. This position will perform genetic and statistical analyses of molecular data from germplasm products to determine pedigrees of that germplasm in relation to Pioneer proprietary germplasm, conduct analyses in support of germplasm security including management of molecular profile security databases and make comparisons of hybrid and inbred profiles utilizing statistical software. Position may be required to present and interpret data to a non-scientific audience.

Ph.D. in plant breeding with strong background in application of genetics and statistics and three to five years experience or MS with 5-8 years of strong relevant training and experience. Must have proven record keeping and organizational skills, knowledge of molecular marker methods and familiarity with marker data and applications in breeding. Very strong data management and computer skills are required.

Please submit your curriculum vitae in scannable format, along with references by January 15, 1999 to: Pioneer Hi-Bred International, Inc. ATTN: Human Resources - Research (Job #98367B), PO Box 1004, Johnston, IA 50131-1004; e-mail: jobsresearch@phibred.com, For more information on these positions visit our website www.pioneer.com.

A. Sam.

ADVANCED LABORATORY TRAINING AND RESEARCH FELLOWSHIPS EMERGING INFECTIOUS DISEASES

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

POSTDOCTORAL FELLOWSHIPS

NIH-funded Neurovirology–Molecular Biology Training Program, at the University of Colorado Health Sciences Center, offers Postdoctoral Fellowships in the laboratories of:

Jeffrey Bennett: neurotrophins and eye development. Randall Cohrs and Donald Gilden: molecular mechanisms of herpesvirus latency in human ganglia. Paul Hagerman: mitochondrial DNA defects and neurodegenerative diseases. Anthony Hayward: cell-mediated immune responses to HSV and VZV. Kathryn Holmes: molecular pathogenesis of coronavirus infection. Ravi Mahalingam: animal model of VZV latency. Donald Gilden, Gregory Owens, and Mark Burgoon: identification of an antigen in multiple sclerosis. David Patterson: chromosomal abnormalities and neurodegenerative diseases. Jerome Schaack: virus transcription. Roderic Smith: modification of neuronal excitation by viral mediated gene transfer. Kenneth Tyler: virus-induced apoptosis in the nervous system.

For more information, please contact: Dr. Donald Gilden, Department of Neurology, University of Colorado Health Sciences Center, 4200 East 9th Avenue, Box B182, Denver, CO 80262. Telephone: 303-315-8281; FAX: 303-315-8720; e-mail: don.gilden@uchsc.edu.

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DAVID G. MARSH POSTDOCTORAL FELLOWSHIP IN MOLECULAR GENETICS OF ALLERGY AND ASTHMA

Available immediately for an individual with experience in genetic mapping, positional cloning, or gene regulation to join a team of established Investigators at the Johns Hopkins Asthma and Allergy Center.

Submit applications including a curriculum vitae, a summary of research goals, and a list of three references to: The Selection Committee, e-mail: skhuang@ welchlink.welch.jhu.edu; FAX: 410-550-2527. The Johns Hopkins University School of Medicine is an Equal Opportunity/Affinnative Action Employer.

POSTDOCTORAL POSITION available to study the early events in hematogenous metastasis. We are using techniques of intravital microscopy, transgenic mice, and knockout mice to define the early tumor-endothelial cell interactions and early steps in tumor cell invasion. Send a description of research experience, curriculum vitae, and names of three references to: Ruth J. Muschel, M.D., Ph.D., Professor, Department of Pathology and Laboratory Medicine, University of Pennsylvania School of Medicine, Philadelphia, PA 19104. FAX: 215-573-4243; e-mail: muschel@mail.med.upenn.edu.

POSITIONS OPEN

GRADUATE FELLOWSHIPS CENTER FOR THE STUDY OF EVOLUTION AND THE ORIGIN OF LIFE UCLA

Origin of the Universe. . . Formation of the Earth . . . Beginnings of Life. . . Evolution of the Biosphere. . . . Advent of *Homo Sapiens* . . .

Center for the Study of Evolution and the Origin of Life (CSEOL) invites applications for five Graduate Fellowships for 1999–2000. In addition to support provided Fellows by UCLA departments, CSEOL will grant each Fellow a stipend of \$5,000 per year, for each of the first two years of graduate study, with no teaching or other duties. Stipends may be used for any purpose the Fellow deems appropriate—travel, lodging, attendance at scientific meetings, purchase of books, computers, research equipment—for any purpose, without restriction. Fellows are included in a select group of graduate students invited to interact with Center faculty in a weekly dinner/seminar/ discussion series. Applicants should be planning to carry out Doctoral research under the direction of a CSEOL faculty member in a subject area relating to virtually any aspect of evolution—of the cosmos, of the solar system, of Earth, of the environment, of life, of humans. Areas of particular interest for 1999–2000 include (1) origin and early evolution of life; (2) biochemical evolution and molecular phylogeny, and (3) planetary evolution and astrobiology. Faculty are members of the UCLA Departments of Anthropology, Atmospheric Sciences, Biology, Chemistry and Biochemistry, Computer Science, Earth and Space Sciences, Economics, Geography, History, Microbiology, Philosophy, Physics and Astronomy, Psychology, and Sociology; the School of Medicine; the School of Public Health; the Institute of Geophysics and Planetary Physics; and the Molecular Biology Institute. Fellowship applicants must apply (preferably, by 17 February 1999) both to an appropriate academic department and to CSEOL. For application forms and a list of CSEOL members, contact:

Center for the Study of Evolution and the Origin of Life Fellows Committee Geology Building, Room 5687 University of California, Los Angeles Los Angeles, CA 90095-1567 Telephone: 310-825-1170 FAX: 310-825-0097 E-mail: mantonya@ess.ucla.edu

YEAST TBP-TAF STRUCTURE, FUNCTION, AND DYNAMICS

POSTDOCTORAL POSITIONS are available to examine the role of the TATA-Box Binding Protein TBP and its associated factors (TAFs) in transcription initiation complex formation using the Sacharomyees cerevisiae system. We are currently using a combination of biochemical, genetics, and biophysical methods to study the regulation and interactions of these proteins with each other, DNA, and other transcription factors (see: JBC 271:13706; JBC 272:9436; JBC 273:19884; Biochemistry 34:8005; PNAS 92:8224; MCB 17:3081; Yeast 14: 813–825). Interested parties should send a curriculum vitae to: Dr. Tony Weil, Department of Molecular Physiology and Biophysics, Vanderbilt University, School of Medicine, Nashville, TN 37232-0615. FAX: 615-322-7236; e-mail: tony.weil@mcmail.vanderbilt.edu.

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POSTDOCTORAL RESEARCH SCIENTIST positions available to study the roles of TFPI and protein Z in hemostasis and thrombosis. Background in biochemistry or molecular biology required. Send curriculum vitae and names of three references to: Dr. George Broze, Division of Hematology, Barnes–Jewish Hospital at Washington University Medical Center, 216 South Kingshighway Boulevard, St. Louis, MO 63110. FAX: 314-362-8813. Affirmative Action/Equal Opportunity

POSITIONS OPEN

POSTDOCTORAL RESEARCH FELLOWSHIP ENVIRONMENTAL HEALTH LABORATORY SCIENCES

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

POSTDOCTORAL ASSOCIATE POSITION AVAILABLE

A Postdoctoral position is available at the Fox Chase Cancer Center to study the genetics of mammary cancer initiation and progression. Fox Chase has outstanding shared core facilities including tissue culture, cell sorting, electron and confocal microscopy, DNA sequencing, and a tumor bank available to support research projects. Experience in molecular biology, mouse genetics, and quantitative genetic analysis is desirable but not required. Applicants must qualify under the NIH Guidelines, which include U.S. citizenship or permanent residency. Information about research and the postdoctoral program at Fox Chase Cancer Center can be obtained from our website: http://www.fccc.edu. Applicants should send a curriculum vitae and the names of three references to: Kent Hunter, Ph.D., Division of Population Science, 7701 Burholme Avenue, Philadelphia, PA 19111. E-mail: kw_hunter@fccc.edu. Equal Opportunity Employer.

POSTDOCTORAL POSITION MOLECULAR AND CELLULAR BIOLOGY OF THE HEART

Position available in the Division of Cardiology at Indiana University School of Medicine to study the molecular genesis of cardiac hypertrophy. The discovery of a hypertrophy-responsive transcription factor that is functional in vivo and can be coupled to signal transduction events provide the successful candidate multiple avenues of investigation, including the preparation of a transgenic mouse line harboring the DNA target of the factor. Experience in molecular and cellular biology is preferred. Please send curriculum vitae and references to: Michael E. Ritchie, M.D., Krannert Institute of Cardiology, 1111 West 10th Street, Indianapolis, IN 46202. FAX: 317-554-0230; e-mail: miritchi@iupui.edu. Indiana University is an Affirmative Action/Equal Opportunity Employer.

Research positions. Two RESEARCH ASSOCIATE positions to work on light-induced biosynthesis of anthocyanins and flavonols, and mechanics of Phytophthora cincumoni action on cranberry plants. Ph.D. degrees in chemistry, biochemistry, or molecular biology with experience in separation, recombinant DNA, and/or biochemical techniques. Preferred: hands-on experience with biochemical techniques, recombinant DNA techniques, plant physiological and photochemical methods, and separation procedures. Submit résumé, list of references to: Dr. B. R. Singh, Department of Chemistry and Biochemistry, University of Massachusetts, Dartmouth, 285 Old Westport Road, North Dartmouth, MA 02747-2300. E-mail: bsingh@umassd.edu. Review of applications will begin December 15, 1998, and will continue until the position is filled. UMD is an Affirmative Action/Equal Employment Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL AND RESEARCH FACULTY PHYSICAL CHEMISTRY, BIOPHYSICS, BIOLOGY, AND PHYSICS EXPERIMENTALISTS

The Wilson group, at the University of California, San Diego, Department of Chemistry and Biochemistry, has positions available for exceptionally talented experimental scientists in the following areas: ultrafast X-ray diffraction and absorption applied to chemical and biochemical dynamics and function, and new techniques in optical microscopy for spatially and temporally resolved imaging as applied to the understanding of dynamics of cellular and intercellular biomolecular and biological processes (including interneuronal communication and function). For more information about these positions and the group, or to receive application process information, visit our website: http://www-wilson.ucsd.edu or e-mail: wgjobops@ucsd.edu. Positions commensurate with experience and qualifications, with salaries based on University of California payscales.

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POSTDOCTORAL POSITIONS IN BEHAVIORAL NEUROSCIENCE

Postdoctoral positions are available to join a federally funded multidisciplinary project studying the neurobiology of cognition (Principal Investigators: John P. Bruno, Martin Sarter). Research focuses on the neuronal mechanisms underlying normal attentional processes and on attentional dysfunctions accompanying aging and major psychiatric disorders such as dementia, schizophrenia, and drug addiction. Experience with microdialysis techniques is desirable. Send current curriculum vitae, reprints, and three letters of recommendation by January 1, 1999, to: Dr. John P. Bruno, Department of Psychology, 31 Townshend Hall, The Ohio State University, Columbus, OH 43210. Telephone: 614-292-1770; e-mail: bruno.1@osu.edu.

The Ohio State University is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.

POSTDOCTORAL ASSOCIATE

To conduct experiments on neurotransmitter sensitivity of DRG neurons. Interact with a dynamic group interested in ion channel biophysics, and with the other members of productive spinal cord and pain research groups. Candidates should have some patch-clamp experience, excellent language skills, and a good publication record. Salary will be commensurate with experience. Applicants should send their curriculum vitae by FAX, e-mail, or mail to: Dr. R. L. Papke, University of Florida, Department of Pharmacology, Box 100267, Gainesville, FL 32610-0267. FAX: 352-392-9696; e-mail: rpape@college.med.ufl.edu. Application deadline is December 24, 1998, with a start date on or after January 4, 1999. The University of Florida is an Equal Opportunity Employer, and minorities and women are especially encouraged to apply.

POSTDOCTORAL POSITION available to investigate stem cells in the epidermis and hair follicles during hyperplastic growth, carcinogenesis, and aging. Approaches include isolation and characterization of clonogenic keratinocytes and strategies for lineage analysis in vivo and in vitro. Background in molecular biology is essential. A recent graduate with an interest in stem cells is preferred. Send curriculum vitac, a statement of research interests and accomplishments, and three letters of reference to: Rebecca Morris, Ph.D., Lankenau Medical Research Center, 100 Lancaster Avenue, West of City Line, Wynnewood, PA 19096. FAX: 610-645-8299; e-mail: ricercar@tigger.jync.net; website: www.jeffersonhealth.org. Equal Opportunity Employer. Minorines/Females/Disabled/Verenans.

POSTDOCTORAL POSITION

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

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POSTDOCTORAL FELLOWS/RESEARCH AS-SOCIATES needed to work on projects studying the mechanisms of protective immunity against tuberculosis and mycobacterial virulence mechanisms. The candidates will work with Dr. Peter Barnes at the University of Texas Health Center at Tyler, a biomedical pulmonary disease research center where five NIH-funded Investigators perform research in tuberculosis. Ph.D. and strong background in cellular immunology required. Highly competitive salary, dependent upon qualifications. Tyler is 100 miles east of Dallas. Low living expenses and excellent public schools make it a great place to raise a family. Send curriculum vitae to: Dr. Peter Barnes, Center for Pulmonary and Infectious Disease Control, Universi-Typer, TX 75708-3154. FAX: 903-877-5516; e-mail: pbarnes@uthct.edu. The University of Texas is an Equal . Opportunity Employer.

The National Eye Institute, National Institutes of Health, has a POSTDOCTORAL POSITION available to study the role of cyclin-dependent kinases in diable to study the role of cyclin-dependent kinases in differentiation and apoptosis. A background in molecular/cellular biology is desirable. Applicants must have a Ph.D. or M.D. and less than five years of postdoctoral experience. Starting salary ranges from \$27,500 to \$38,000 per year depending upon experience. Please send curriculum vitae, bibliography, and names of three references to: Dr. Peggy S. Zelenka, Laboratory of Molecular and Developmental Biology, Building 6, Room 214, MSC-2730, Bethesda, MD 20892-2730. Telephone: 301-496-7490; FAX: 301-435-7682; e-mail: zelenka@helix.nih.gov.

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A POSTDOCTORAL POSITION is available to study G-protein-mediated signaling pathways involved in the regulation of cell growth (see: JBC 272:28829, 1997; Omogene 17:1383, 1998). Applications are encouraged from individuals with strong interest and experience in the area of molecular biology, cell biology, or signal transduction research. Send curriculum vitae and names of three references to: Danny N. Dhanasekaran, Ph.D., Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140-5101. FAX: 215-707-5963; e-mail: danny@sgil.fels.temple.edu. Eanal Opportunity Eurologer.

A POSTDOCTORAL POSITION is available. The project is generation of Tg animal model for central nervous system autoimmune diseases and their immunological analysis. The position requires strong background of molecular biology. Send curriculum vitae and three references to: Dr. Kouichi Ito, Neuroimmunology Branch, National Institute of Neurological Disorders and Stroke, NIH 10, Building 10 Room 5B-16, 10 Center Drive, MSC-1400, Bethesda, MD 20892-1400. E-mail: itok@helix.nih.gov.

POSTDOCTORAL RESEARCHER. Pathophysiology and causative factors in Kawasaki disease. Requires: M.D.; two years of experience in immunology and clinical and treatment aspects of Kawasaki disease, including cytokine responses, endothelial activation, and vascular reactivity; strong publication record; employment authorization in the United States. \$30,000 per year. Send a curriculum vitae and the names of three references to: Dr. John Zabriskie, Founders Hall, Rockefeller University, New York, NY 10021.

POSITIONS OPEN

SELENIUM BIOCHEMISTRY THRESSA STADTMAN, PH.D. ENTRY ID: PD-827

A POSTDOCTORAL POSITION is available in the Laboratory of Biochemistry of the National Heart, Lung, and Blood Institute specializing in selenium biochemistry. Applicants must have a Ph.D. and less than five years of postdoctoral experience. U.S. citizen or permanent resident required. Laboratory of Biochemistry, NHLBI, 3 Center Drive, MSC 0320, Building 3, Room 108, Bethesda, MD 20892-0320.

COURSES & TRAINING

PLANT BIOCHEMISTRY 1999

The DOE/NSF/USDA Triagency-supported Plant Biochemistry Research and Training Center at Washington State University will conduct a training course in plant biochemistry July 11–24, 1999. The course will teach principles and recent advances in a wide range of topics, including hormones, signaling mechanisms, unique plant products, and defense. The course is intended for graduate students, postdoctorates, faculty, and industrial scientists, and will include instruction by approximately 40 internationally recognized Plant Scientists. Funds have been allocated to partially offset travel expenses for up to 65 participants. For further information and an application form, contact: Ms. Karen Maertens, Plant Biochemistry Research and Training Center, Institute of Biological Chemistry, 285 Clark Hall, P.O. Box 646340, Washington State University, Pullman, WA 99164-6340. Telephone: 509-335-5496; FAX: 509-335-7643; e-mail: maertens@wsu.edu. Application deadline April 16, 1999.

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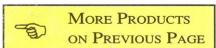
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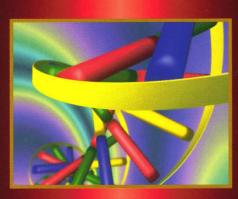
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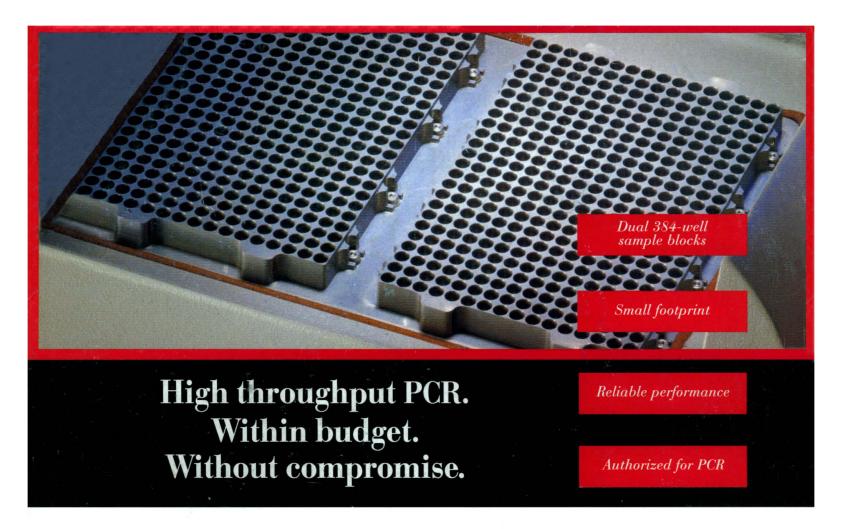
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Authorized for PCR. In addition to the new dual 384-well sample block, the system accommodates standard 96-well sample blocks and other formats as they become available.

So, get more PCR per square centimeter. For information on the Dual 384-Well GeneAmp PCR System 9700, call PE Applied Biosystems at 1-800-345-5224. Outside the U.S., contact your local sales representative, or visit our website at www.perkin-elmer.com.

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