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**POSITIONS OPEN**  

**ASSISTANT PROFESSOR OF AGRICULTURAL ENTOMOLOGY**  
The Department of Entomology, University of Missouri, invites applications for this ten-month-track position at the Delta Center, Portageville, Missouri to develop a research program (50% effort) in management of pest arthropods associated with crops grown in southeast Missouri. Ph.D. in entomology, training and experience in applied entomology, a broadly based knowledge of cropping systems and their associated arthropod pests in the region, and effective communication skills are required. Submit by 1 February 1992 a letter describing qualifications, interests, publications, and request three letters of reference, to: C. O. Knowles, Chair Search Committee, Department of Entomology, University of Missouri, Columbia, MO 65211. Telephone: 314-882-2346. The University of Missouri is an Affirmative Action/Equal Opportunity Employer.

**SCIENCE EDUCATION.** Departments of Biology and Education seek applicants for the position of ASSISTANT PROFESSOR, tenured track, to supervise students teachers in secondary science (primarily biology and integrated science), teach curriculum and methods in science, introductory biology, and core courses in an Environmental Education Masters Program, and develop outreach programs for staff development in public schools. Requirements include a doctoral degree and 3 years of pre-college teaching. Send application letter to: Dr. D. Southworth, School of Sciences, Southern Oregon State College, Ashland, OR 97520. The college is an Affirmative Action, Equal Opportunity Employer; minorities and women are especially encouraged to apply.

**ECOLOGIST**  
Tenure-track position available at the ASSISTANT PROFESSOR rank beginning September 1992. (Higher rank may be considered.) Responsibilities include teaching ecology for majors, and nonmajor courses such as field ecology, aquatic animals and environmental biology, and establishing a research program involving undergraduates. Ph.D. in community or ecosystem ecology required. Candidates must provide evidence of teaching and research effectiveness. Minorities and women are especially encouraged to apply. Send letter of application, curriculum vitae, transcripts, statement of long-term goals, and three letters of recommendation to: Dr. Susan L. Neuhart, Departmental Chairperson, Department of Biology, Slippery Rock University, Slippery Rock, PA 16057. To ensure consideration, application materials must be received by 15 February 1992. Slippery Rock University is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR OF IMMUNOLOGY**  
The Cardiovascular Research Laboratory of the Harvard School of Public Health is searching for an assistant professor with expertise and several years of research experience in protein chemistry and in vivo models. Prior experience will be given to individuals with a record of investigation in the area of thrombosis and thrombolysis. The successful candidate will also be expected to have had research experience in the area of immunological dissection of epitopes of proteins of the coagulation and/or thrombolytic systems. Responsibilities include teaching and independent as well as collaborative research at the M.D. degree. Fellowship and residency in a relevant specialty is required because of anticipated extension of this work to clinical investigation. Applicants should send their curriculum vitae and names of three references to: Dr. Edgar Haber, Division of Biological Sciences, Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115. Harvard University is committed to increasing the representation of women and minority members among its faculty and particularly encourages applications from such candidates.

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**POSITIONS OPEN**  

Term faculty appointments at the ASSISTANT PROFESSOR level for Fall 1992 in biochemistry, molecular biology, and/or cell biology. The successful candidates will conduct research in environmental carcinogenesis, chemoprevention, and/or molecular epidemiology of cancer, and/or work to cooperate successfully for peer reviewed grants as a part of the cancer program of The Ohio State University Comprehensive Cancer Center. Successful candidates will also participate actively in the graduate program of the Department of Preventive Medicine of the College of Medicine. Interested candidates should send curriculum vitae and three references to: Randall E. Harris, M.D., Ph.D., Professor and Chairman, Department of Preventive Medicine, The Ohio State University, B-107 Starling Loving Hall, 320 West 10th Avenue, Columbus, OH 43210. An Equal Opportunity Employer.

**FACULTY POSITION IN KINESIOLOGY**  
The Department of Kinesiology at the University of Illinois at Urbana–Champaign invites applications for an open tenure-track position at the ASSISTANT PROFESSOR level. (1) Biomechanics. (2) Physiological and/or biochemical aspects of movement and exercise; scholarly interests in such areas as muscle metabolism, endocrinology, and molecular biology. The research functions include independent research, directing students in seeking grant support. Instruction involves teaching and advising both undergraduate and graduate students. Academic background and training relevant to each area. Ph.D. required. To ensure full consideration, application, curriculum vitae and three letters of recommendation should be submitted by 1 February 1992. The appointment will be for 21 August 1992. Interviews may be conducted before the closing date, but all applications received by that date will receive full consideration. Send to: Chair of Search Committee, Department of Kinesiology, University of Illinois at Urbana–Champaign, Louise Freeer Hall, 906 South Goodwin Avenue, Urbana, IL 61801; telephone: 217-244-0823. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION**  
The Institute of Molecular Biology and the Department of Biology at the University of Oregon have an open tenure-track position at the ASSISTANT PROFESSOR level in the area of genetics and molecular biology. We are particularly interested in individuals with fundamental, molecular biology or genetics, but will consider outstanding applicants in other areas. The successful candidate will be expected to conduct a vigorous research program, preferably complementing our existing programs, and must be committed to excellence in teaching at the undergraduate and graduate levels. The appointment can start as early as fall 1992. Applications should include curriculum vitae, a statement of research interests/plans and three letters of recommendation, and should be sent before 1 February 1992 to: Molecular Biology Search, Department of Biology, University of Oregon, Eugene, OR 97403. The University of Oregon concurrently has openings for a NEUROBIOLOGIST (contact Neuroscience Search, Department of Biology), a BIOPHYSICIST (contact Biophysics Search, Institute of Molecular Biology) and a BIOCHEMIST (contact Biochemistry Search, Department of Chemistry). The University of Oregon is an Equal Opportunity/Affirmative Action Employer committed to cultural diversity.

**FACULTY POSITION**  
The Microbiology Department of The University of Texas at Austin has an open tenure-track position at the ASSISTANT PROFESSOR in the area of immunology. Appointment at a higher rank will be considered for individuals with a strong record of collaborative research. Highly qualified individuals with interests in molecular biology outside of this area also will be considered. This is an outstanding opportunity to join an excellent department during a period of expansion. Please submit curriculum vitae, including names and addresses of three references and summary of research interests to: Mi- crobiole Department Search Committee, The University of Texas at Austin, TX 78712–1095. The University of Texas is an Equal Opportunity/Affirmative Action Employer.
POSIIONS OPEN

The Department of Biology, Brooklyn College/CUNY, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level beginning September 1, 1992. We seek a scientist who uses modern methods of molecular biology, or immunology to investigate problems in cell biology, developmental biology, or neurobiology in a model eukaryotic organism. Applicants must have a Ph.D., at least 3 years of postdoctoral training, and publications. Applicants must be strongly motivated toward creative research and have a commitment to teaching both the undergraduate and graduate levels. The position is funded by a grant from the Howard Hughes Medical Institute Undergraduate Biological Sciences Education Initiative. Submit curricula vitae, names and addresses of three references by 1 March 1992: to: Dr. R. H. Gavvin, Chairman, Department of Biology, Brooklyn College, CUNY, New York, NY 11210. An Affirmative Action/Equal Employment Opportunity Employer, M/F/H/V.

MOLECULAR RETROVIROLOGIST EMPHASIS HIV UNIVERSITY OF WASHINGTON

The Department of Microbiology is seeking candidates for a TENURE-TRACK FACULTY POSITION preferably at ASSISTANT PROFESSOR level to complement an ongoing interdisciplinary multidisciplinary research program on Human Immunodeficiency Virus (HIV), Simian Immunodeficiency Virus (SIV), and other retroviruses. The position is located at a research facility near the downtown Montreal, in proximity to three other universities, several pharmaceutical companies and the NRC biotechnology institute. The successful candidate will have a Ph.D. in virology, be independent and have active research programs and are jointly involved in offering undergraduate programs in biotechnology and cell and molecular biology. Concordia is a private, non-profit, non-denominational teaching research university with an enrollment of 12,700 students. Concordia University is committed to Employment Equity, and encourages applications from women, Aboriginal people, people with visible minorities and disabled persons. All things being equal, women candidates shall be given priority.

Baylor University, ORGANIC CHEMISTRY FACULTY POSITION: The Department of Chemistry invites applications for a tenure-track organic faculty position at the ASSISTANT PROFESSOR level, beginning fall 1992. A Ph.D. in chemistry is required and postdoctoral experience is preferred. The successful applicant will be expected to demonstrate excellence in teaching at the undergraduate and graduate levels and to establish an independent research program capable of attracting graduate students (M.S. and Ph.D.) and extra- mural funding. Applicants should submit a letter of application, curriculum vitae, including a list of publications, and a description of research interests and plans, and have three letters of recommendation and graduate and undergraduate transcripts sent to: Professor Stephen L. Gipsch, Department of Chemistry, P.O. Box 93748, Baylor University, Waco, TX 76798. The deadline for receipt of all materials is 10 February 1992. Baylor University is governed by an all-Baptist Board of Regents and, accordingly, supports a Christian-oriented aims and ideals of Baptists. An Equal Opportunity/Affirmative Action Employer, Women and minority candidates are encouraged to apply.

PERINATOLOGIST (OB/GYN) ASSISTANT PROFESSOR

Position available immediately for an ASSISTANT PROFESSOR to join a faculty of five perinatologists in the Division of Maternal-Fetal Medicine to: (1) teach medical students, residents in obstetrics and gynecology and fellows in high-risk obstetrics (maternal-fetal medicine); (2) perform research in high-risk obstetrics to reduce premature births, infant complications, and death; (3) perform clinical duties and provide patient care for an indigent high-risk obstetrics population. Requirements: (1) M.D. degree and 4-year obstetrics and gynecology residency. (2) Board eligibility or certification in maternal-fetal medicine. (3) Pased written examination to the American Board of Obstetrics & Gynecology. Salary: $78,000.00 per year and full fringe benefits. The employer is an Equal Opportunity/Affirmative Action/Title IX/Section 504 Employer. Send resume to: Dr. Robert B. Edgar, Department of Obstetrics and Gynecology, University of California, San Francisco, California 94143-0506.

APPLICATIONS ARE INVITED FOR THE FOLLOWING POSITIONS OPEN

ASSISTANT PROFESSOR OF MOLECULAR BIOLOGY CARDIOVASCULAR RESEARCH LABORATORY

The Cardiovascular Research Laboratory of the Harvard School of Public Health is searching for an assistant professor to establish a research program with expertise in cardiovascular biology. The successful candidate will be given a position with a record of investigation in the areas of diagnosis and therapy of cardiovascular disease. The faculty member will have a Ph.D. in molecular biology. Priority will be given to individuals with a record of investigation in the areas of identification and cloning of genes that control cardiovascular function and the control of gene expression in blood vessels in response to various forms of injury. Responsibilities include teaching and independent as well as collaborative research. An appointment and a research position in a relevant specialty is required because of anticipated extension of this work to clinical investigation. Interested candidates should apply, with names of three references to: Dr. Edgar Haber, Division of Biological Sciences, Harvard School of Public Health, 677 Huntington Avenue, Boston, MA 02115.

APPLICATIONS ARE INVITED FOR THE FOLLOWING POSITIONS OPEN

ASSISTANT PROFESSOR OF PHARMACOLOGY PHARMACAL SCIENCES SCHOOL OF PHARMACY, AUBURN UNIVERSITY

Applications and nominations are invited for a 12-month, tenure-track faculty position at the rank of ASSISTANT PROFESSOR. Preference will be given to individuals with research and teaching interests in neuropharmacology. Persons interested in substance abuse research are particularly encouraged to apply. Applicants must have a Ph.D. and postdoctoral experience. The Department of Pharmacology will establish an independent extramurally funded research program and to participate in the teaching of graduate and undergraduate students. The position is available 1 September 1992 and review of applications will begin in March 1992. Send curriculum vitae, a summary of present and future research interests and the names of three references to: Dr. Donald E. Walters, Chairman, Search Committee, Department of Pharmacal Sciences, 403 Pharmacy Building, Auburn University, Auburn, AL 36849-5603. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

University of California, San Diego, TENURE-TRACK ASSISTANT PROFESSOR POSITION IN PHYSICAL CHEMISTRY

The Chemistry Department of the University of California, San Diego is recruiting for a position in the area of physical chemistry. Candidates must have a Ph.D. degree and a demonstrated ability for creative research and for teaching at the undergraduate and graduate levels. Open positions subject to availability of funds. Applications received through 15 February 1992 will be given thorough consideration. Salary commensurate with experience and based on the University of California pay scale. Candidates should send curriculum vitae, a list of publications, reprints of up to five representative papers, names of their references to: Chair, Physical Chemistry Search Committee, University of California, San Diego, Department of Chemistry–6332, 9500 Gilman Drive, La Jolla, California 92037-0332. The University of California is an Equal Opportunity/Affirmative Action Employer.

THE DEPARTMENT OF PATHOLOGY UNIVERSITY OF CALIFORNIA SAN FRANCISCO (UCSF)

is recruiting at the ASSISTANT OR ASSOCIATE PROFESSOR level for full-time positions with service, teaching, and fellowship responsibilities. The successful M. D. or M.D.-Ph.D. candidates should be Board-certified or Board-eligible in anatomic pathology, with experience in surgical pathology, cytopathology, or other sub specialties. The successful candidates will have demonstrated interest and skills in scholarly research with the potential of establishing a successful independent research program. Successful candidates will be expected to participate in patient care and the clinical teaching of medical students. Applications are invited on an equal opportunity basis. Women and minorities are encouraged to apply.

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Job #TN 1234951

20 DECEMBER 1991

PERSONNEL PLACEMENT 1829
Senior Staff And Postdoctoral Opportunities.

Excellent opportunities for conducting research are now available with leading scientists at the National Institutes of Health.

Senior Staff Fellowship

Neuroscience
William J. Freed, PhD

Studies of neuronal plasticity and neural tissue grafts will be conducted by a researcher with experience in neural plasticity, brain tissue transplantation, brain immunology, and in vitro cell-cell interactions. Familiarity with protein purification, cell adhesion, immunocytochemistry, and in vitro cell characterization is desirable. US citizenship and at least four years of postdoctoral experience are required. Neuropsychiatry Branch (OE-3), NIMH Neuroscience Center at St. Elizabeth's, 2700 Martin Luther King Jr. Avenue, SE, Washington, DC 20032.

Postdoctoral Fellowships

Macromolecular Crystallography
Craig Hyde, PhD

A newly established, well-equipped laboratory seeks a number of candidates to study the structure and function of biological macromolecules. X-ray crystallography, crystallographic computing and computer graphics, and protein purification and crystallization are used to study multienzyme complexes, multifunctional proteins, macromolecular assemblies, structural and cytoskeletal proteins, and viral proteins (including HIV). Laboratory of Structural Biology Research (OE-3), NIAMS, Building 2, Room 316.

Molecular Immunology
Warren J. Leonard, MD

Molecular aspects of NF-kB and the human interleukin-2 (IL-2) receptor system are being studied. Current studies focus on elucidating IL-2 receptor structure and function and the molecular aspects of IL-2 receptor gene regulation. Previous experience in molecular biology or immunology is required and initial appointment is for two years. Section on Pulmonary and Molecular Immunology (OE-3), NHLBI, Building 18T, Room 101.

Molecular Retrovirology
Edward L. Kuff, MD, PhD

The molecular basis for selective activation of particular endogenous retroviral elements within a large population of otherwise latent units is being studied. Mechanisms that determine the demethylation of specific retroviral elements and cellular factors that mediate the transcriptional response to changes in methylation status are currently being characterized. Laboratory of Biochemistry (OE-3), NCI, Building 37, Room 4C03.

Molecular Virology
Stephen E. Straus, MD

The regulation and expression of herpesvirus latency genes are being studied in order to better understand the basic biology of the herpesvirus. Doctoral level experience in molecular virology or cell biology and related disciplines is essential. Full support is committed initially for two years. Laboratory of Clinical Investigation (OE-3), NIAID, Building 10, Room 11N228.

Additional Postdoctoral Fellowship Opportunities

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221). The settings for modem access are "7,Even,1". When connected to NIH, type in "vr100" at the connect message, "F5E" at initial, and "AJ1" at account. Those interested in receiving a catalog featuring descriptions of NIH research laboratories and other postdoctoral opportunities may contact the Office of Education, Building 10, Room 1C129, Phone: 301-496-2427.

To Apply

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, Curriculum Vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.

National Institutes Of Health

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Department of Health & Human Services • Public Health Service
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POSITIONS OPEN

VERTEBRATE ECOLOGIST

Ph.D. required. Tenure track; teach undergraduate core course in ecology; general zoology; specialty ecology courses. Broad training in zoology and botany. Demonstrated ability and commitment to teaching. Special interest in evolutionary, population, physiological or behavioral ecology. Assistant Professor. 1 March 1992; must have Ph.D. and postdoctoral experience. Application deadline 24 August 1992 starting date. An Equal Opportunity/Affirmative Action Employer. For details or to apply, call Mr. T. Thonfeld, Chair, Department of Biology, University of Wisconsin–Stevens Point, Stevens Point, WI 54481. Telephone: 715–346-2159; Fax: 715–346-3644. An alphabetical list of all nominees and applications for this position will be maintained until 30 June 1992. A self-addressed, stamped envelope is necessary. Applications may be released following the closing date.

POPULATION BIOLOGIST
UNIVERSITY OF DALLAS

The University of Dallas, a selective Catholic liberal arts university, seeks a population biologist for a tenure-track appointment at the ASSISTANT OR ASSOCIATE PROFESSOR level. Candidates will be expected to develop a research program that actively involves undergraduate and graduate students. The successful candidate will also teach a course in their field of expertise and maintain an active research program with undergraduates. Ph.D. is required along with proven teaching experience. Applicants should submit curriculum vitae, names of references, and a statement describing the nature of their commitment to undergraduate education. The department will be conducting a campus interview. Please send your application to: Dr. Frank Doe, Chair, Department of Biology, University of Dallas, Irving, TX 75062. Review of applications will begin 21 January 1992. Equal Opportunity Employer.

DEPARTMENT OF BIOLOGY
CLARION UNIVERSITY
PENNSYLVANIA

The Department of Biology anticipates openings and invites applications for four tenure-track positions at the ASSISTANT/ASSOCIATE PROFESSOR level. Applicants will be expected to demonstrate excellence in teaching both majors and nonmajors. Participation in teaching a general education course for freshman and sophomore students will be expected. Candidates will also be expected to develop a research program that actively involves undergraduate and master's degree students. A Ph.D. in an appropriate area is required for all positions. Responsibilities include teaching, research, and service. Qualifications include teaching entomology, limnology, evolution, and an opportunity to develop a course in the candidate's specialty. Strong quantitative skills are required. Applicants should arrange for three letters of recommendation to be sent to: Assistant Professor, Department of Biology, Clarion University, Clarion, Pennsylvania 16214.

BIOLOGICAL SCIENCES

Northern Illinois University anticipates three tenure-track ASSISTANT PROFESSOR positions, two for fall 1992 and one for fall 1993. Ph.D. and postdoctoral experience required. Each candidate will be expected to develop a new externally funded research program and be prepared to apply for external funding. Candidates must have postdoctoral experience and will be expected to develop a basic research program. Preference will be given to candidates for whom postdoctoral experience and a proven record of obtaining extramural funding are documented. Each candidate must be prepared to develop an active research program and to teach introductory courses in biology, plant science, and general biology. Application deadline is 31 December 1991. Please submit curriculum vitae, list of publications, copies of three letters of recommendation, and a letter of intent. Northern Illinois University is an Affirmative Action/Equal Employment Opportunity Employer.

CELL/MOLECULAR BIOLOGIST

The Department of Anatomy and Cell Biology at Georgetown University is seeking a cell/molecular biologist to fill an ASSISTANT/ASSOCIATE PROFESSOR level position, beginning 1 July 1992. Applicants should have completed postdoctoral training and be capable of establishing an independent research program supported by extramural funds. While the specific area of research is not as important as excellence, individuals who utilize molecular approaches in developmental studies are encouraged to apply. Participation in the departmental teaching program is expected. Curriculum vitae, representative publications, and the names of three references should be sent to: Dr. Daniel E. Cummins, Department of Anatomy and Cell Biology, Georgetown University Medical Center, 3900 Reservoir Road, N.W., Washington, D.C. 20007. Deadline for application receipt is 15 February 1992. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION IN PHARMACOLOGY
ASSISTANT/ASSOCIATE PROFESSOR

The Department of Pharmacology, University of Tennessee College of Medicine, is seeking candidates with research interests in cancer pharmacology/tumor biology for a tenure-track position, available 1 July 1992. To initiate a laboratory program in the area of cellular growth factors and regulators of relevance to problems in current cancer therapy. Experience in the application of modern constructs of biochemistry, molecular biology, and cell biology to the area of research is essential. Candidates should possess the Ph.D. degree in pharmacology, biochemistry, or a related discipline, or the M.D. degree, and should have demonstrated excellence in research and a commitment to teaching. Candidates will be expected to establish an independent research program and participate in teaching of pharmacology to professional and graduate students. Applications from minority candidates are encouraged. Please submit curriculum vitae, a three-page statement of research interests and future research plans to: Dr. Murray Heimberg, Department Chairman, Department of Pharmacology, University of Tennessee, Memphis, Tennessee 38118. Application deadline is 31 January 1992. Search will continue until the position has been filled. The University of Tennessee, Memphis is an Equal Employment Opportunity/Titple IX/Section 504/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT OR ASSOCIATE PROFESSOR
BIOCHEMISTRY/MOLECULAR BIOLOGY

The Department of Biochemistry at the Uniformed Services University of the Health Sciences (USUHS) invites applications for two 12-month salaried tenure-track positions available in 1992. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Appointments will be at the Assistant or Associate Professor level. Candidates at the assistant professor level must have postdoctoral experience and will be expected to develop an active research program. Preference will be given to candidates for whom postdoctoral experience and a proven record of obtaining extramural funding are documented. Each candidate must be prepared to develop an active research program and to teach introductory courses in biology, plant science, and general biology. Application deadline is 31 December 1991. Please submit curriculum vitae, list of publications, copies of three letters of recommendation, and a letter of intent. USUHS is an Equal Opportunity Employer.

BLOOD BANK PHYSICIAN

The Department of Pathology and Laboratory Medicine at Emory University School of Medicine continues to participate in a program to train physicians in transfusion medicine. We seek applications from physicians who are Board-certified or Board-eligible in blood banking (ABP) and have research interests in transfusion medicine or clinical immunology. This is a position of three years' duration, but we are prepared to consider applications from candidates who would like a shorter period of training. The appointee will be expected to participate in the teaching activities of the department as well as pursue clinical and basic research. The appointee will have an opportunity to contribute to the development of research programs, participate in research, and contribute to the training and education of residents in transfusion medicine. This is a non-resident position. Please send curriculum vitae, a brief statement of research interests and expected duration of training, a letter of support from the candidate's current or former faculty advisor, and a curriculum vitae to: Dr. Janice A. Rott, Department of Pathology, Emory University School of Medicine, 1364 Clifton Road, NE, Atlanta, GA 30322. Applications received prior to 15 October 1992 will be considered. Emory University is an Equal Opportunity/Affirmative Action Employer.

CELL AND MOLECULAR BIOLOGIST

ASSISTANT/ASSOCIATE PROFESSOR (tenure-track) is available at Case Western Reserve University School of Medicine and University Hospitals of Cleveland in the Department of Orthopaedic Surgery and the Skeletal Research Center. The interdisciplinary research program involves the study of a research individual interested in basic research of bone, cartilage, tendon/ligament and muscle will provide appropriate support for the new fellowship. The appointment is to the musculoskeletal science community on our campus opens a position for a basic research individual interested in bone, cartilage, tendon/ligament and muscle. Please send curriculum vitae and names of four references to: Dr. Robert J. Orander, Department of Orthopaedic Surgery, University Hospitals of Cleveland, 10900 East Boulevard, Cleveland, OH 44106. Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR OF SCIENCE DEVELOPMENT

Hamline University seeks applications and nominations for a new senior-level interdisciplinary faculty position in the science liaison office. The successful candidate will have a broad background in biology, chemistry, or mathematics. We seek a person who has a broad scientific background, a distinction in research, and a commitment to teaching, curriculum development, grant proposals, and fostering student-faculty research in a liberal arts college. Nominations or applications (including a letter of interest) are invited. Applications (including a letter of interest, curriculum vitae, and salary and support expectations) should be sent to: Jerry Greiner, CLA Dean's Office, Hamline University, 1500 Grand Avenue, St. Paul, MN 55104. Screening of applications will begin 21 January 1992 and continue until a successful candidate has been chosen.

An Equal Opportunity/Affirmative Action Employer.
THE WORLD HEALTH ORGANIZATION
has a vacancy with its Global Programme on AIDS (GPA)
at its Headquarters in Geneva for the post of

SCIENTIST

Duties: Under general direction, the incumbent develops policy and position papers especially with respect to public health aspects of HIV/AIDS; ensures the consistent development and implementation of public health policies; and supports the work of the Global Commission on AIDS.

Qualifications required: Degree in medicine with postgraduate degree in public health, or degree at the highest university level in biomedical sciences or epidemiology. Ability to analyse and evaluate health policy issues, conceptualize strategies, and formulate actions; critically review scientific reports, especially those of a public health policy nature. Ability to direct the work of others and excellent verbal and written communication skills. Extensive knowledge of AIDS-related work. Knowledge of WHO policies and programmes would be an advantage. Extensive national experience in clinical medicine or public health; considerable experience in public health policy issues; experience in AIDS-related work, extensive experience in preparing scientific reports. Excellent knowledge of English and French.

An attractive package of salary, international allowances, social security and statutory entitlements, is offered.

A detailed curriculum vitae with photograph should reach the following office within three weeks of publication of this advertisement quoting reference “MPR/GPA/PPC/SCI” and the name of this journal:

Personnel Officer
World Health Organization
Avenue Appia
1211 Geneva 27, Switzerland

Applications from women are encouraged
Only candidates under serious consideration will be contacted.
POSTDOCTORAL POSITIONS IN CELLULAR AND MOLECULAR NEUROBIOLOGY

La Jolla, California

The newly established Department of Neurobiology has 3 postdoctoral positions available to study various aspects of molecular, cellular and developmental neurobiology. Major areas of interest are cell-cell and cell-substratum adhesion molecules, neurite outgrowth, and nerve regeneration. Specific studies include: analysis of morphogenetic pathways during neural development; identification of signal transduction pathways activated by adhesion molecule binding; control of expression of adhesion molecules, particularly by pattern-forming genes such as fox and Pax; studies of overexpression or deletion of adhesion molecules in transgenic mice; characterization of new neural adhesion molecules; studies of diffusible signals such as nitric oxide in brain development; relation to cytoskeletal states and control of cell shape and motogenesis; theoretical analysis of reentrant pathways in the brain. Requires a strong background in cellular and/or molecular biology and biochemistry. Send CV and 3 letters of reference to: Dr. Gerald M. Edelman, Dept. of Neurobiology. The Scripps Research Institute, 10666 North Torrey Pines Rd., MB12, La Jolla, CA 92037. EOE.

NANOTECHNOLOGY
Reprint

Engineering a Small World: From Atomic Manipulation to Microfabrication

This 42-page special section, reprinted from the 29 November issue of Science, is your entry to the expanding world of small-scale engineering. It's a field that spans microelectronics, materials science, chemistry, molecular biology, and microscopy. In this special section, ten illustrated articles by research leaders and by science journalists present the full scope of this small world.

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POSITIONS OPEN

FACULTY POSITION
DEPARTMENT OF BIOLOGICAL SCIENCES
FORDHAM UNIVERSITY

The Department of Biological Sciences invites applications for two tenure-track positions which will be filled at either the ASSISTANT OR ASSOCIATE PROFESSOR level with individuals who will be involved in both graduate and undergraduate education. One position will be filled in the area of BIOCHEMISTRY. Candidates with expertise in population biology or the application of molecular techniques to ecological problems are especially encouraged to apply. The second position will contribute to the program at the department's biological field station located in Armonk, New York. The second position will be filled by an IMMUNOLOGIST with preference given to individuals employing molecular techniques in the study of the immune system. This individual will be situated in the department's newly renovated facilities at the Rose Hill campus and will benefit from state-of-the-art equipment available at this site.

Individuals interested in either of these positions should send curriculum vitae, statement of research and teaching interests, and the names of three professional references by 1 February 1992 to: Dr. Berenite Y. Rubin, Chairman, Department of Biological Sciences, Larkin Hall, Fordham University, Bronx, NY 10458. Fordham University is an Affirmative Action/Equal Opportunity Employer.

The University of Vermont (UVM) College of Medicine is seeking a medical oncologist at the ASSOCIATE PROFESSOR/PROFESSOR level to be director of the Hematology/Oncology Unit of the Department of Medicine. We seek individuals with a broad interest in all cancer treatment modalities, and with a particular interest in interventional therapy with hematologic support. Expansion of the research programs of the unit, with an emphasis on new treatment modalities is an important goal. The unit is affiliated with the Vermont Cancer Center, the Comprehensive Cancer Center. In addition to clinical research, the Cancer Center includes active programs in drug development, molecular epidemiology, growth control, genetic counseling, and cancer prevention. The new director will assume a senior leadership role in the Cancer Center. Please send letter of inquiry and curriculum vitae to: M. John Gennari, M.D., Professor and Associate Chairman, Department of Medicine, University of Vermont College of Medicine, Given D 505, Given Building, Burlington, VT 05405. UVM is an Affirmative Action/Equal Opportunity Employer. Applications from women and people from diverse racial, ethnic and cultural backgrounds are encouraged. Position open until filled.

CANCER CENTER DIRECTOR

The University of Florida College of Medicine is seeking a Cancer Center Director who will hold a 12-month academic appointment and report to the Dean of the College of Medicine. This individual will hold a tenure-track faculty appointment as PROFESSOR. The candidate should have an M.D. degree with excellent clinical credentials and a solid track record in research achievement.

Responsibilities include: The Cancer Center Director will serve as the Medical Director of the ambulatory Cancer Center and will serve as Director of the Cancer Center. The Director will promote multidisciplinary clinical and research activities in areas related to cancer. The Director will direct activities in support of the institution's application for the Cancer Center core grant; will recruit research faculty to endowed chairs related to cancer research. The Director will develop cancer screening and community education projects as appropriate. The Director will serve as chairperson of the Cancer Center Steering Committee which administers space assignments for the Cancer Center.

Letters of application should consist of current curricular vitae and indicate a summary of recent research, clinical and administrative experience. The application deadline is 15 March 1992. Applications should be sent to: James E. McGuigan, M.D., Search Committee Chairman, Department of Medicine University of Florida College of Medicine Box 1048 Gainesville, FL 32610-0277

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

POSITIONS OPEN

FULL PROFESSOR
FUSION PLASMA PHYSICS
ROYAL INSTITUTE OF TECHNOLOGY
STOCKHOLM

The professorship includes experimental and theoretical research and teaching at the Royal Institute of Technology, with the main aim of achieving thermonuclear fusion using magnetic confinement. The Fusion Plasma Physics Department forms part of the Institute's Alfvén Laboratory and is strongly engaged in the Euratom-Sweden Research Program.

Detailed information and formal rules for applications will be sent on request from "Kansli E", Royal Institute of Technology, S-100 44 Stockholm, Sweden or FAX +46-8 790 9189. You may also contact Professor Bo Lehnert, +46-8 790 7703 or Dr. Erling Dahlberg, +46-8 790 8499.

Applications should be directed to the Swedish Government and be received no later than 31 January 1992 by the Registrar, Royal Institute of Technology, S-100 44 Stockholm, Sweden. As explained in the regulations, supplementary material will be accepted within three weeks of the closing date.

PROFESSOR AND CHAIRPERSON
DEPARTMENT OF PHARMACOLOGY

The College of Medicine of Howard University invites applications and nominations for the position of Chairperson of the Department of Pharmacology. The candidate should possess a Ph.D. degree in pharmacology or the M.D. degree with research expertise in molecular biology and pharmacology. Applicants should have experience in teaching and administration. The Department of Pharmacology is responsible for educational programs for medical, dental, pharmacy and graduate students. The department has strong research programs in several specialty areas of pharmacology.

Nominations and applications should be received before 30 April 1992. Women and minorities are encouraged to apply. Applications consisting of a letter of intent, curriculum vitae and three references should be sent to: Allen R. Rhoads, Ph.D., Chairman, The Pharmacology Search and Nominations Committee, U.S. Department of Biology and Molecular Biology, College of Medicine, Howard University, 520 W Street, N.W., Washington, DC 20009. Howard University is an Equal Opportunity/Affirmative Action Employer.

DISTINGUISHED PROFESSORSHIP IN QUANTITATIVE ECOLOGY

The College of Natural Resources at the University of Wisconsin in Stevens Point is seeking an accomplished scholar/teacher for a tenure-track Distinguished Professorship in Quantitative Ecology. Responsibilities include teaching, research, and extension of quantitative ecology to natural resource management. Preference will be given to candidates who have collaborated with public agencies or natural resource industries to promote ecologically sound resource use and economic development. Research experience in GIS and/or biometrics is preferred. Deadline for applications is 1 March 1992 and screening of applicants will begin at that time. Candidates should send letter of interest, resume that corroborates the above-mentioned qualifications, three letters of recommendation and the names of three other references to:

Dr. Stanley W. Szczypka, Chair Search and Screen Committee College of Natural Resources University of Wisconsin-Stevens Point Stevens Point, WI 54481 Telephone: 715-346-4181 University of Wisconsin-Stevens Point is an Equal Opportunity Employer.

FREE PRODUCT INFORMATION SERVICE

Send a letter stating the specifics about your new laboratory and Science will put you in touch with the vendors whose products you will need. Write to:

Science New Lab Service Department 1333 H Street, NW Washington, DC 20005

PERSONNEL PLACEMENT 1833
Applications are being accepted for a Postdoctoral Fellow to work on the development of new recombinant toxins for the treatment of cancer and AIDS and how these toxic proteins act to kill target cells. Applicants should have some experience in either molecular biology or protein chemistry. Stipend/salary commensurate with education, training, and experience. Interested individuals should send curriculum vitae, bibliography, and statement of research interests to:

Ira Pastan, M.D., Chief, Laboratory of Molecular Biology National Cancer Institute National Institutes of Health PHS/DHHS Buidling 37, Room 4E16 9000 Rockville Pike Bethesda, MD 20892

NID is an Equal Opportunity Employer

Associate Research Scientist /Lecturer

The Department of Biology, Training and Research Support Division seeks to appoint a non-ladder faculty member to design and conduct innovative state-of-the-art laboratory courses in cell, molecular, and developmental biology, including a new offering in the biology and chemistry of proteins. Primary focus will be placed on the development of undergraduate and graduate level courses. Applicants should have a Ph.D. or equivalent with one to two years postdoctoral experience. A strong interest in teaching is essential. The appointee will have the opportunity to participate in technique development and to establish collaborative ties with on-going research programs.

Please send curriculum vitae, letter of interest and the names and addresses of three references by February 15, 1992 to: Executive Secretary, Training and Research Support Division, Department of Biology, Osborn Memorial Laboratory, 165 Prospect Street, P.O. Box 6666, New Haven, CT 06511-7444.

An Affirmative Action/Equal Opportunity Employer. Women and Minority Group Members are especially urged to apply.

HAMiTON REGIONAL CANCER CENTRE
THE ONTARIO CANCER TREATMENT & RESEARCH FOUNDATION

TUMOR BIOLOGIST (PHOTOBIOLOGY/RADIOBIOLOGY)

A tumor biologist or radiobiologist is required for a full-time, permanent, faculty-level position at the Hamilton Regional Cancer Centre in association with McMaster University.

Join an existing program of research in photodynamic therapy and oncolologic applications of lasers. Contribute expertise in tumor biology to other research programs, including the use of monoclonal antibodies for therapy and imaging, and cellular/molecular studies of mechanisms of metastasis.

Level of appointment will depend on qualifications and experience. A PhD and several years post-doctoral experience is required. Candidates must provide evidence of capability for independent research.

Please forward resume to:

Hamilton Regional Cancer Centre
Human Resources Department
711 Concession Street
Hamilton, Ontario
CANADA
L8V 1C3

In accordance with immigration requirements, preference will be given to Canadian citizens and permanent residents. Further information may be obtained from Dr. B. Wilson at (416) 387-9495 or fax (416) 575-6330.

Cellular/Molecular Biologist

Wyeth-Ayerst Laboratories, a major division of Fortune 100 American Home Products Corporation, has a challenging opportunity for a Cellular/Molecular Biologist in our modern research facility in Princeton, NJ.

This position will be primarily responsible for developing and maintaining cell lines, undertaking basic research projects involving cell growth and proliferation, as well as identifying and developing novel cardiovascular pharmaceutical agents. We seek a BS/MS with extensive experience in cell biology including tissue culture, monoclonal antibody production and Northern blot analysis. Experience in Molecular Biology desired.

We offer excellent compensation, benefits and career advancement. Our research laboratory is just minutes away from Princeton University and convenient to many other cultural, educational and leisure activities. Please forward resume with salary requirements to: WYETH-AYERST RESEARCH, Personnel Manager, CN 8000, Position #404, Princeton, NJ 08543-8000. An equal opportunity employer, M/F/H/V.
POSITIONS OPEN
DIRECTOR OF RESEARCH

The Portland Veterans Affairs Medical Center (PVAMC) and the Oregon Health Sciences University (OHSU) seek an outstanding, highly motivated investigator to direct a biomedical research program. Candidates must hold an M.D. or Ph.D. degree for the position of Associate Chief of Staff for Research at the PVAMC. He/she will be responsible for directing all PVAMC research programs, coordinating the relationship between research at the PVAMC and OHSU, and representing the PVAMC's research program to VA central office. This position will be an ideal one for a program and faculty development responsibilities. The successful candidate will be expected to continue his/her own research program. The individual will be expected to: (1) contribute in an academic role as an associate or full professor in the appropriate department in the School of Medicine. Send curriculum vitae, including bibliography and the names of at least three references to: Dr. Michael Davey, M.D., Chair, Search Committee, Research Service (151), VA Medical Center, P.O. Box 1034, Portland, OR 97207-1034. An Equal Opportunity Employer.

PHYSICS DEPARTMENT HEAD
SEARCH REOPENED

The University of Connecticut invites applications for this anticipated position in our Physics Department. The department consists of 40 faculty members and serves approximately 2000 undergraduates, most of them enrolled in the Ph.D. program. The department also trains undergraduate physics majors and provides introductory courses required for many program areas. Areas of particular strength are: atomic and molecular physics, condensed-matter physics, particle and field theory, quantum mechanics and modern physics. The successful candidate will have earned widespread recognition for significant scientific work and be able to exercise effective leadership within the department and advise the University's Ph.D. in Physics and a distinguished record of publications in a specialized area of research are required. Candidates with administrative experience in other sciences whose research specialties overlap programs in which the department has substantial strength will be given preference. Projected starting date is September 1, 1992. To be considered, please send application, curriculum vitae and addresses of at least three references to: Dr. Timothy J. Killeen, Dean's Office, U-98, College of Liberal Arts and Sciences, The University of Connecticut, Storrs, CT 06269-2098. The University of Connecticut is committed to increasing representation of women and members of minority groups on its faculty and encourages applications from such candidates. (Search #2A62).

MANAGER OF SCIENCE DEVELOPMENT

Reports to the Vice President for Development and Vice President for Botanical Science. Responsible for raising $700,000 annually in whose research specialties support science programs at The New York Botanical Garden. Requires strong writing, a minimum of 3 years of development experience and academic training in botany, ecology, or environmental science; and ability to plan and coordinate presentations. Experience in writing about natural science for the nonprofessional reader is essential. Competitive salary and excellent benefits. Send résumé to: Director of Personnel—MSD, The New York Botanical Garden, 200th Street and Southern Boulevard, Bronx, NY 10458—5126. An Equal Opportunity Employer.

ENVIRONMENTAL SCIENCES

Two tenure-track positions in Environmental Science Ph.D. program, 1 September 1992. The University of Connecticut seeks highly qualified and independent researchers in one or more of the following fields: (1) MARINE ORGANIC CHEMISTRY OR ORGANIC GEOCHEMISTRY and (2) MARINE TOXICOLOGY. Ph.D. required; postdoctoral experience preferred. Salary is competitive. Open recruitment/broad search for independent scientists working in an environmentally relevant area. Rank open: competitive salary and benefits. Send résumé, cover letter, and three references to: Chairperson, Search Committee, Environment and Natural Resources Program, UConn, 205A Olden Street, U-98, Storrs, CT 06269-3393. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN
MANAGER OF NEW PRODUCT DEVELOPMENT

Develops applications for cyclodextrin products, including applications in the flavor and fragrance industry providing molecular encapsulation for sensitive chemical compounds, cholesterol extraction from human plasma and egg proteins. Involved in the dosage of pesticides without affecting their efficiency; develop dibenzyl-ide sulfone products for applications as clari- fying agents for pharmaceutical and cosmetics products; develop and maintain communications and contractual relationships with university research departments, industry and private research, and U.S. corporate research societies. Invites to discuss programs and ideas for new product development; monitor long-term developments in biodegradable plastics, detergents, metal chelating and new biotechnolo- gies; provide technical expertise on developments in reduced calorie food, surimi, dairy and confectionery applications; utilize fluency in French language to partici- pate in bilateral scientific research forums, review international scientific publications, and engage in dis- cussions with representatives of parent company, Bach- elor of Science in Agriculture and Master of Business Administration degrees and 3 years of experience as manager of new product development or 3 years of experience as sales representative and 4 years of technical sales representative required. Previous employment expe- rience must have included promoting and providing technical support. Experience desirable. Includes the ability to work with research laboratories to determine technical require- ments, transfer of scientific information and orientation of research. Must have a working knowledge of French and English language required. Forty hours, Monday to Friday, 8:00 a.m. to 5:00 p.m.; $52,000 per year. Must have proof of legal authorization to work in the United States. Send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605, Attention: Ms. Lyke, Reference # V-IL-4089-L. No calls. An employer-paid ad.

FACULTY POSITION
ENVIRONMENTAL POLICY
THE UNIVERSITY OF MARYLAND AT COLLEGE PARK

The School of Public Affairs seeks a faculty person in ENVIRONMENTAL POLICY for fall 1992. Rank open. Tenure/tenuure track. Preference given to persons with demonstrated success in academic and policy analysis or law, and with teaching experience. Send résumé to: Dr. Peter G. Brown, School of Public Affairs, University of Maryland, College Park, MD 20742. Telephone: 301-404-6351. For full consideration material should be received by 15 January 1992. An Equal Opportunity Employer.

SWEATMORE COLLEGE
DEPARTMENT OF BIOLOGY
ONE-YEAR FACULTY POSITIONS

Applications are invited for three 1-year leave-replace- ment positions in the Department of Biology starting September 1992.

NEUROBIOLOGY
This position involves teaching an intermediate-level course in animal behavior and advanced/technical support programs. Course work will include some areas of neuroscience, and participation in the department's introductory biology sequence.

ANIMAL BEHAVIOR
This position involves teaching an intermediate-level course in ecology and an advanced-level seminar in some areas of neuroscience, and participating in the department's introductory biology sequence.

PLANT ECOLOGY
This position involves teaching an intermediate-level course in ecology and an advanced-level seminar in some areas of ecology, and participating in the department's introductory biology sequence.

FACULTY POSITION
ENGLISH LANGUAGE AND LITERATURE
UNIVERSITY OF MARYLAND

The University of Maryland at College Park anticipates open- ing a full-time faculty position in English language and literature. The position is at the rank of Assistant Professor or higher. Applicants should have a doctorate in English language and literature and a strong background in the teaching of research writing, composition and literature. Successful candidates will be expected to contribute to the department's existing programs in literature, creative writing, and pedagogy. The position is available September 1, 1992. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, English Language and Literature Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.

FACULTY POSITION
BIOLOGICAL SCIENCE
UNIVERSITY OF MARYLAND

Applications are invited for a full-time faculty position, beginning September 1992, in Biological Science. The position is at the rank of Assistant Professor or higher. The successful candidate will be expected to contribute to the department’s existing programs in molecular biology, biochemistry, cell biology, and molecular genetics. The position is available September 1, 1992. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, Biological Science Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.

FACULTY POSITION
ENVIRONMENTAL SCIENCES
UNIVERSITY OF MARYLAND

An Equal Opportunity Employer.

FACULTY POSITION
ENVIRONMENTAL SCIENCE
UNIVERSITY OF MARYLAND

Applications are invited for a full-time faculty position, beginning September 1992, in Environmental Science. The position is at the rank of Assistant Professor or higher. The successful candidate will be expected to contribute to the department’s existing programs in environmental science, and participate in the department’s introductory biology sequence. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, Environmental Science Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.

FACULTY POSITION
HUMAN PHYSIOLOGY
UNIVERSITY OF MARYLAND

Applications are invited for a full-time faculty position, beginning September 1992, in Human Physiology. The position is at the rank of Assistant Professor or higher. The successful candidate will be expected to teach in the department’s existing programs in human physiology and contribute to the department’s introductory biology sequence. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, Human Physiology Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.

FACULTY POSITION
PHARMACOLOGY
UNIVERSITY OF MARYLAND

Applications are invited for a full-time faculty position, beginning September 1992, in Pharmacology. The position is at the rank of Assistant Professor or higher. The successful candidate will be expected to teach in the department’s existing programs in pharmacology and contribute to the department’s introductory biology sequence. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, Pharmacology Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.

FACULTY POSITION
BIOLOGY
UNIVERSITY OF MARYLAND

Applications are invited for a full-time faculty position, beginning September 1992, in Biology. The position is at the rank of Assistant Professor or higher. The successful candidate will be expected to teach in the university’s existing programs in biology and contribute to the department’s introductory biology sequence. To apply, send curriculum vitae, statement of research and teaching interests, and names and addresses of three references to: Chairperson, Biology Search Committee, 406 William and Mary Building, College Park, MD 20742-1034. Send in materials by February 1, 1992. An Equal Opportunity Employer.
PROFESSORSHIP

Thomas Jefferson University invites applications for the Warren Lang Professorship of Pathology and Director of the Division of Molecular Pathology in the Department of Pathology and Cell Biology. The Lang Professor will be expected to recruit several faculty members to be supported by the department. The division occupies 6,000 sq. ft. of newly remodeled and fully equipped research laboratories, and interfaces with the Jefferson Cancer Institute (Carlo Croce, Director) and the Jefferson Institute of Molecular Medicine (Darwin Prockop, Director).

 Applicants should have a proven record of accomplishments in research and appropriate academic experience. Interested parties should send their curriculum vitae to any member of the search committee: Emanuel Rubin, MD; Renato Baserga, MD; Carlo Croce, MD; Thomas Jefferson University, 11th & Walnut Streets, Philadelphia, PA 19107. Equal Opportunity Employer.

TENURE-TRACK POSITION AT THE NIH

A junior tenure-track position is available in the Genetics and Biochemistry Branch, NIDDK, NIH. Applications are invited from individuals of the highest caliber who will complement the scientific interests of the current staff. The Branch is similar to a small academic department and has excellent laboratory facilities. The intramural program of the NIH offers an outstanding research environment and the primary responsibility of the successful applicant will be to initiate and establish a first-rate research program. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C. The current interests of the faculty-level staff include:

- Eukaryotic DNA repair, molecular mechanisms of toxin action, and mechanisms of nuclear and cytoplasmic localization of proteins and nucleic acids in Xenopus (Eric Ackerman)
- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes, the structure and function of novel triplex DNAs, gene rearrangements in eukaryotes (Dan Camerini-Otero)
- Molecular mechanisms of homologous recombination in higher eukaryotes, functional studies of mammalian DNA ligases and the formation and recognition of DNA mismatches (Peggy Hsieh)
- Molecular basis of mechanisms involved in hormonal and developmental control of gene expression: protein-nucleic acid interactions, trans acting factors of steroid/thyroid hormone receptor gene superfamily (Vera Nikodem)
- Molecular genetics of lysosomal storage diseases, protein trafficking, gene targeting by homologous recombination to produce models of human disease (Rick Proia)
- Control of gene expression in vertebrates (Ed Rall)
- Thyroid hormone-protein interactions and the mechanism of intracellular thyroid hormone transport, genetic factors in thyroid neoplasia, and clinical studies in thyroid cancer (Jacob Robbins)
- Determinants of anteroposterior axis formation and the role of transcription factors in the specification of neuronal phenotypes in early Xenopus development (Sheryl Sato)

Interested candidates should send a letter stating their research interests, their curriculum vitae and list of publications, and the names and addresses of three references to:

Dr. R. Daniel Camerini-Otero, Chief Genetics and Biochemistry Branch National Institutes of Health Building 10, Room 9D-15 9000 Rockville Pike Bethesda, Maryland 20892
POSITIONS OPEN

TENURE-TRACK FACULTY POSITIONS
PARASTOLOGIST AND EXPERIMENTAL VETERINARY PATHOLOGIST

PARASTOLOGIST: a parasitologist with a demonstrated record of excellence in research and documented teaching experience.

PATHOLOGIST: an experimental pathologist with training in veterinary anatomical pathology. Salary and rank commensurate with training and experience for both positions.

Send curriculum vitae, statement of research and teaching objectives, and names of at least three references to: Dr. K. Schultz, Professor and Chair, Department of Veterinary Medicine, University of Wisconsin-Madison, 2015 Linden Drive West, Madison, WI 53706-1102.

RESEARCH FACULTY POSITION

Requirements include an M.D. or Ph.D. degree with appropriate postdoctoral experience in one of the following areas: (1) intestinal immunity, (2) intestinal proteolysis, or (3) intestinal physiology. This individual will be part of a research team that is studying the enteric aspects of HIV infection among patients in Africa. Please send short vitae and names of three references to: Ms. Cheryl Jones, UTHSC, Center for Infectious Diseases, 6431 Fannin Street, JFB 1728, Houston, TX 77030. The University of Texas Health Science Center at Houston, Section on Pathology, Women, minorities, and disabled candidates are encouraged to apply.

POLYMER SCIENCE AND ENGINEERING UNIVERSTY OF MASSACHUSETTS AMHERST

The Department of Polymer Science and Engineering is seeking aPOSTDOCTORAL RESEARCH FELLOWtoserve in the area of structure/morphology. The appointment will most likely begin at the assistant professor level but exceptionally promising candidates at more senior levels will also be considered. Qualifications for a senior appointment include an international reputation in the morphological/structure of polymers field. Qualifications for appointment at an associate professor level include exceptional evidence of promise of establishing an internationally recognized research program and appropriate level of postdoctoral, industrial, or previous academic experience. Salary commensurate with qualifications and experience. It is desired to fill the position by the beginning of the fall semester 1992 or as soon thereafter as possible. Applications are encouraged to be submitted by 1 March 1992, but names and references will be considered. Applications will remain open until the position is filled. Send applications and the names of at least three references to: William J. MacKnight, Director, School of Engineering, University of Massachusetts, Amherst, MA 01003. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS, GENE MAPPING USDA, Agricultural Research Service (ARS), Meat Animal Research Center, Clay Center, Nebraska, has postdoctoral-research associate positions immediately available in a group developing a map of the cattle and swine genomes. Candidates with a background in genetics/molecular biology and experience in molecular biology or cytogenetics techniques are encouraged to apply. Excellent-established reference families provide a unique opportunity in this high-priority ARS program. Minimum starting salary of $31,116 per year. Send curriculum vitae and names of three references to: Dr. Craig W. Bagley, Meat Animal Research Center, Clay Center, NE 68933, telephone: 402-762-4359; FAX: 402-762-4365. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
THE CLEVELAND CLINIC FOUNDATION

Postdoctoral positions available immediately to study the structure and function of peptide hormone receptors. Experience in protein chemistry, receptor biochemistry, enzymology and/or molecular cloning is required. Send curriculum vitae and names of three references to: Dr. John M. Misono, Research Institute/FS-02, The Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195-0071.

POSITIONS OPEN

The Department of Zoology at The Ohio State University invites applications for a tenure-track FACULTY POSITION. Preference will be given to applicants with research interests in animal communication with an emphasis on echolocative behavioral approaches. The candidate will be expected to develop an active, extramurally funded research program, and to contribute to the graduate and undergraduate teaching programs. Applicants with diverse research programs will be considered. This faculty member will be directed to the Borer Laboratory of Bioacoustics and administer the department's zoological collection of bats and other bats. Applicants are encouraged to develop a program of extramural funding to support these collections. The level at which the appointment is made is dependent on the qualifications of the applicant. Qualified women, minorities, and disabled candidates are encouraged to apply. Applicants should send curriculum vitae, copies of three significant publications, and the names and addresses of three references to: Dr. Peter W. Pappas, Chairperson, Department of Zoology, The Ohio State University, 1735 Neil Avenue, Columbus, OH 43210-1293 (telephone: 614-292-8088; FAX: 614-292-2180; E-mail PAPAS 36@OSU.EDU).

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

POSTDOCTORAL POSITION
MOLECULAR AND CELL BIOLOGY

Available to study expression of glycosyltransferases/ glycosylhydrolyases with emphasis on synthesis and processing. Send resume and two letters of reference to: Dr. Inder K. Vijay Program in Molecular and Cell Biology Room 2W04, Wachtel Center University of Maryland College Park, MD 20742 An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION, MOLECULAR NEUROENDOCRINOLOGY

Applications are invited for a postdoctoral research fellowship for an NIH-funded project to study molecular mechanisms of regulation of the prolactin gene. Research involves an investigation of the competing pathways mediating positive and negative regulation by cell-specific mechanisms, peptide hormones, and dopamine [Mol. Endocrinol. 5, 1488 (1991); Mol. Cell. Endocrinol. 79, R1 (1991)]. Applicants should have a strong background in biochemical, and preferably also in molecular biology. Send curriculum vitae and names and telephone numbers of three references to: Dr. James Levy Place, New York, NY 10029.

An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
IN HUMAN GENETICS
THE MOUNT SINAH SCHOOL OF MEDICINE


POSTDOCTORAL POSITION
ENDOCRINOLOGY AND METABOLISM

Positions are available in an NIH-funded program for M.D. and/or Ph.D. trainees who are citizens or permanent residents of the United States. This is an opportunity for conducting research in the laboratory of one of 16 NIH-funded preceptors and relevant core work needed to prepare for a career in academic biomedical research. Research training at the molecular and cellular level can be acquired in the actions of insulin, growth factors, TRH, and steroidal hormones; in structure/function relationships of hormone receptors; and in clinical research involving obesity, diabetes, aging and the regulation of metabolism and energy expenditure in human subjects. For more information and application forms write to: Dr. James Livingston, Box 693, University of Rochester Medical Center, Rochester, NY 14642.

POSTDOCTORAL POSITION
CONTRIBUTION TO ENZYME MECHANISMS

Available to study the enzymatic mechanisms of DNA recombinases and DNA helicases. The research will include the use of protein engineering to construct novel proteins having altered catalytic properties. Experience in mechanistic enzymology, nucleic acid biochemistry, or protein chemistry is required. Send curriculum vitae and names and addresses of three references to: Dr. F. R. Bryant, Department of Biochemistry, Johns Hopkins University, 615 North Wolfe Street, Baltimore, MD 21205.

POSTDOCTORAL POSITIONS

Available in the Department of Anatomy. Applicants must have a Ph.D. or M.D. degree. Positions available during 1992 and 1993. Closing date: 20 January 1992 or until positions are filled. For more information and application forms write to: Dr. Robert McGuire, Head, Department of Anatomy, University of Arizona, Arizona Health Sciences Center, Tucson, AZ 85724. An Equal Opportunity/Affirmative Action/Tithe IN Section 504 Employer.
Electrophysiologist

Imagine A Pharmaceutical Group
With Small Company Values
And Large Corporate Resources

Norwich Eaton is the prescription pharmaceutical research division of Procter & Gamble and a vibrant, highly spirited company known for its innovative thinking. We've created a unique environment where new ideas are appreciated and individual talent is acknowledged.

As a member of our Cardiovascular Drug Discovery Group, you will assist in the discovery of new ethical pharmaceuticals. This includes whole-cell and isolated membrane patch experiments to determine the effects of cardioactive compounds on voltage-gated and receptor-mediated ion channels. The successful candidate will have a PhD and post-doctoral experience in electrophysiology in vitro, especially cellular electrophysiology/biophysics of cardiac muscle. Some familiarity with single-cell recording and patch clamp techniques will be necessary.

At Norwich Eaton, we provide the career advantages of a Fortune 50 organization, coupled with the cultural benefits of a scenic up-state New York community. For confidential consideration, please forward curriculum vitae to: Mr. Terry Stark, Personnel Representative, Norwich Eaton Pharmaceuticals, Inc., 17 Eaton Avenue, Norwich, New York 13815.

Norwich Eaton
Norwich Eaton Pharmaceuticals, Inc.
A Procter & Gamble Company
An Equal Opportunity Employer
POSTDOCTORAL POSITIONS

A position is available in gastrointestinal cell biology to study the effects of gastrointestinal peptides on various gastrointestinal functions in vitro. Candidates must have experience in cell biology, receptor binding assays, signal transduction and cellular biochemistry is desirable. Send letter stating current curriculum vitae and bibliography and names of three references to: Dr. Jerry D. Gardner, Associate Chairman, Department of Internal Medicine, St. Louis University School of Medicine, St. Louis, MO 63104.

St. Louis University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. To investigate the molecular basis of fungal infection of immunocompromised patients using enzymological and recombinant DNA approaches on animal models. Send curriculum vitae and at least three references to: P. E. Kolattukudy, Director, Ohio State Biotechnology Center, The Ohio State University, 1060 Carkarm Road, Columbus, OH 43210. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE. Full-time position available in the laboratory of Dr. Anil Kumar Jaiswal, at our Department of Pharmacology. Individual will participate in research involving the identification and cloning of transcription factors involved in the regulation of genes encoding enzymes and tumor suppressors. Ph.D. required; previous research experience in molecular biology preferred. Interested candidates please send resume to: A. J., c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

Available to study lipoprotein-mediated influences on synthesis of fibrinolytic proteins and expression of surface-localized fibrinolytic activity in cultured endothelial cell phenotypes. Ph.D. with experience in protein/receptor biochemistry, tissue culture and/or molecular biology is required. Send curriculum vitae and names of three references to: Dr. John E. Carmack, Department of Cardiovascular Disease, University of Alabama at Birmingham (UAB) PAB 265, UAB Station, Birmingham, AL 35294–4400. UAB is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—ANTIGENOGENE RESEARCH. Position available immediately for highly motivated scientist seeking training experience which affords a great deal of scientific independence. Studies will involve characterizing and molecular functions of the F53 antigenic. Interested individuals should forward curriculum vitae and three letters of reference to: James L. Shively, M.D., Ph.D., c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL POSITION available for a biochemist or organic chemist to join an NIH-funded program on platelet aggregation inhibitors. Must have experience in one or more of the following: asymmetric synthesis, in vitro and in vivo evaluations and molecular mechanism studies. Receptor binding techniques will be a plus. Send curriculum vitae to: Dr. R. Gollamudi, Professor of Medicinal Chemistry, University of Tennessee, Memphis, The Health Science Center, Memphis, TN 38163. University of Tennessee, Memphis is an Equal Employment Opportunity/Affirmative Action Title VI/Section 504/ADA Employer.

POSTDOCTORAL FELLOWSHIP

Available immediately to study mammalian cytosine DNA methyltransferase: characterization of DNA and protein interactions specificity; identification of cellular components which modify the enzyme's function. Experience in protein isolation, cell culture, enzymatic kinetics, and analysis of protein and nucleic chemistry desirable. NIH funded. Open until filled. For further information contact: Dr. Norbert Reich, Department of Chemistry, University of California, Santa Barbara (UCSB), CA 93106. Telephone: 805-893-3410. FAX: 805-893-4120. UCSB is an Equal Opportunity/Affirmative Action Employer. Proof of U.S. citizenship or eligibility for U.S. employment will be required prior to employment. (IRCA 1986).

RESEARCH FELLOW/ASSOCIATE position in molecular genetics of hereditary eye diseases—retinitis pigmentosa, gyrate atrophy, and retinoblastoma. State-of-the-art "forward"/"reverse" genetic approaches to isolating and studying genes. Expected to result in cloning, mutational/transgenic analysis. Ph.D. or M.D. required; experience in molecular biology preferred. Send curriculum vitae, names, addresses, and telephone numbers of three references to: George Inada, M.D., Ph.D., Director, Laboratory of Molecular Genetics, Department of Ophthalmology, University of Miami School of Medicine, P.O. Box 016880, Miami, FL 33101. Equal Opportunity Employer.

HUDSON RIVER FOUNDATION FELLOWSHIPS

DOCTORAL FELLOWSHIPS sponsor doctoral research on topics of environmental, ecological, and public health concern to the Hudson River estuary. The fellowships provide a stipend of $11,000 plus $1,000 toward supplies. Applications must be received by 15 March 1992.

T. R. POLGAR FELLOWSHIPS support undergraduate and graduate research projects on the ecology (chemical, physical, and biological), and public use aspects of the Hudson River estuary. Salaries of $3500 and limited research funds will be provided. Sponsoring professors will receive a $250 stipend. Proposals must be submitted by 1 March 1992.

Inquiries on how to apply or for information may be obtained by requesting the Foundation’s Annual Program Plan from: The Hudson River Foundation, 20 West 20th Street, New York, New York 10011; telephone: 212-924-8290.

POSTDOCTORAL FELLOW

Position to develop new physical methodologies for genomic analysis using novel spectroscopic/hydrodynamical approaches and single molecules. Applicant should have extensive spectroscopic/hands-on instrumentation experience. Previous biological experience a plus. Send curriculum vitae and names of three references to: Dr. David C. Schwartz, New York University, Department of Chemistry, 31 Washington Place, New York, NY 10003. Equal Opportunity Employer.

INSTITUTE OF ECOSYSTEM STUDIES CARY POSTDOCTORAL FELLOWSHIP IN ECOLOGY

The Institute of Ecosystem Studies announces the availability of the Cary Postdoctoral Fellowship in Ecology. The fellow will join a group of ecologists and ecosystem scientists. The fellowship is for one year and may be renewed for a second year. Applicants must have a Ph.D. Submit a statement of research interests, curriculum vitae, and the names of three references to: Dr. Alan R. Berkowitz, Cary Postdoctoral Fellowship, Institute of Ecosystem Studies, Box AB, Millbrook, New York, 12545. Deadline: 21 February 1992. Equal Opportunity Employer.

RESEARCH FELLOW to conduct independent research on photosynthetic transduction in biological membranes. Investigation of the coupling of retinal photoreceptor to protein conformational changes of the photosensitive rhodopsin (1–3). Investigate effects of residue replacements in SR-1 with recombinant DNA methods by time-resolved spectroscopy in vivo and characterized using a group of ecologists and ecosystem scientists. Expected to result in cloning, mutational/transgenic analysis in vivo. Ph.D. degree in chemistry required with evidence of publications in quality refereed journals in the area of spectroscopy or studies of photoreceptors in biological membranes. Salary: $21,000 annual salary, 40 hours per week. Apply at the Texas Employment Commission, 10600 Harry Hines Blvd., E.B. 10, Texas Employment Commission, T.E.C. Building, Austin, TX 78778, I.O. #6521457.

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RESEARCH SCIENTIST

Virogenetics Corporation, a joint venture between Pasteur Mérieux Serums & Vaccins (PMS&V) and the New York State Department of Health (NYSDOH), was established in 1986 to develop the vaccinia virus technology initially developed at the NYSDOH. The technology has now matured to the point where three highly attenuated vectors are available for delivering extrinsic immunogens of heterologous pathogens. A poultry vaccine vector, TROVAC, has been derived from a highly attenuated vaccine strain of fowlpox virus and has demonstrated efficacy as a recombinant vaccine vector for pathogens of poultry. A highly attenuated strain, NYVAC, has been derived by genetic engineering of an existing vaccinia virus vaccine strain. NYVAC has been demonstrated to be superior to existing vaccine strains in a number of safety studies yet remains a potent vector in inducing protective immune responses against heterologous human and veterinary pathogens. ALVAC is derived from a vaccine strain of canarypox virus. ALVAC is restricted for replication to avian species, yet as a vector it has demonstrated the ability to provide potent immunization properties against heterologous pathogens in both animals and man. The basic vaccinia technology has therefore now been matured and extended to other members of the poxvirus family. Virogenetics stands poised to make a significant contribution to both veterinary and human health using recombinant live vector vaccine technologies.

We solicit applications from scientists with 4–5 years of postdoctoral experience in the areas of virology or parasitology, with strong backgrounds in molecular biology, to join Virogenetics in the pursuit of the enhancement of public health.

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GENETICISTS/MOLECULAR
BIOLOGISTS

Applications Invited For
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As Scientific Administrators
(2-Year Or Permanent Appointment)

The National Center for Human Genome Research seeks outstanding candidates with a Ph.D/M.D. or equivalent and research experience in human genetics, molecular biology or genetics to work with the Human Genome Program at NIH in Bethesda, Maryland. Postdoctoral experience is required and significant scientific experience beyond the postdoctoral level is desirable. The duties of the positions will include administration of a portfolio of research, center and/or training grants relating to research in genomics, maintaining a thorough knowledge in the subject area and advising the Center Director on policy development regarding genome issues. Candidates will be considered for temporary two-year appointments or permanent employment. The salary range is $37,294 to $68,129, or may be negotiable commensurate with qualifications and experience. Interested candidates should submit curriculum vitae and names of three references to:

Dr. Jane Peterson
National Institutes of Health
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These challenges require a Ph.D. along with 7+ years' research experience in colloid chemistry, interfacial or material science. A proven record of innovative research involving studies of complex systems rather than simple models is also essential. Experience working in a broad, multi-disciplinary environment along with the ability to successfully manage technical interfaces is highly desirable.

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STAFF FELLOW
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Starting date: Between December 1991 and May 1992

A position is available for a Staff Fellow in the Laboratory of Biochemical Risk Analysis, Division of Biometry and Risk Assessment of the National Institute of Environmental Health Sciences to study genetic polymorphisms of cytochrome P450 in humans using molecular biology techniques. Studies will involve use of cDNA expression systems, site-directed mutagenesis, construction of cDNA and gene libraries, sequencing, hybridization studies, and PCR analysis. Applicants should have a Ph.D. or equivalent degree in molecular biology, biochemistry, pharmacology, or microbiology and demonstrated ability to carry out independent research. Previous experience in molecular biology techniques including use of cDNA expression systems such as yeast, subcloning, and/or site-directed mutagenesis highly desirable. Candidates with up to seven years of postdoctoral research experience will be considered. For more information, contact Dr. Joyce Goldstein at 919-541-4495. Applicants should send curriculum vitae, names of three references (with telephone numbers) to the following address by January 27, 1992.

Ms. Carole Gregory (Code: HNV44)
NIHES Personnel Office
P. O. Box 12233
Research Triangle Park, NC 27709

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Medtronic, Inc. offers a highly competitive compensation and benefit package plus the opportunity for personal recognition in an environment where new ideas and initiative are encouraged. Please send resume in confidence to: Colleen Stephens, Medtronic, Inc., Promence Division, 6700 Shingle Creek Pkwy, Brooklyn Center, MN 55430. Equal Opportunity Employer. No Agencies Please.

DIRECTOR, MOLECULAR PATHOBIOLOGY

Jefferson Medical College of Thomas Jefferson University invites applications for the Warren Lang Professorship of Pathology and Director of the Division of Molecular Pathobiology in the Department of Pathology and Cell Biology. This division is concerned with the application of molecular biology to research in cancer, genetics, metabolic disorders, and related conditions. The Lang Professor will be expected to recruit several tenure track faculty members to be supported by the department. The division occupies 6,000 sq. ft. of newly remodeled and fully equipped research laboratories, and interfaces with the Jefferson Cancer Institute (Carlo Croce, Director) and the Jefferson Institute of Molecular Medicine (Darwin Prockop, Director).

Applicants should have a proven record of accomplishments in research, demonstrated ability to obtain extramural funding, and appropriate academic experience. Interested parties should send their curriculum vitae to any member of the search committee: Emanuel Rubin, MD; Renato Baserga, MD; Carlo Croce, MD; Thomas Jefferson University, 11th & Walnut Streets, Philadelphia, PA 19107. Equal Opportunity Employer.

Thomas Jefferson University

DIRECTOR,
MOLECULAR
PATHOBIOLOGY

Jefferson Medical College of Thomas Jefferson University invites applications for the Warren Lang Professorship of Pathology and Director of the Division of Molecular Pathobiology in the Department of Pathology and Cell Biology. This division is concerned with the application of molecular biology to research in cancer, genetics, metabolic disorders, and related conditions. The Lang Professor will be expected to recruit several tenure track faculty members to be supported by the department. The division occupies 6,000 sq. ft. of newly remodeled and fully equipped research laboratories, and interfaces with the Jefferson Cancer Institute (Carlo Croce, Director) and the Jefferson Institute of Molecular Medicine (Darwin Prockop, Director).

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Thomas Jefferson University

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Please send C.V. with cover letter to: Personnel Manager - Ad #8-6, Research Personnel, WP42-2, Merck Sharp & Dohme Research Laboratories, West Point, PA 19486.

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Apply your skills in analytical methods development and employ a variety of instrumental and chromatographic techniques to the design, development and implementation of procedures to qualify drug substances and drug products. Candidates should possess a Ph.D. in Analytical Chemistry (or an equivalent chemical discipline) along with 0-2 years experience in a laboratory environment. (Ref: RS-87-91)

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Application deadline: January 15, 1992


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AQUATIC RESEARCH ECLOGIST. The National Park Service, Indiana Dunes National Lakeshore, Portage, Indiana, is seeking applications for the position of research ecologist (water). The position involves responsibility for investigations in own area of expertise (water quality, ecosystematics, etc.). Experience in ecosystem research is preferred. The individual will also prepare research proposals, administer research contracts and provide oversight for the park’s water quality monitoring program. Must have equivalent experience and education. Must be a United States citizen. The position will be filled at the GS-12 level; $36,860 to $50,517 per annum depending upon qualifications. The National Park Service is an Equal Opportunity/Affirmative Action Employer. Applications must be postmarked by 24 April 1992. For vacancy announcement and application instructions contact: Dr. Richard Whitman, Chief Scientist, Research Division. Telephone: 219-932-7561.

ASSISTANT RESEARCH SCIENTIST. Two postdoctoral positions available immediately for applied mathematician (specialty in population dynamics or fish-stock assessment) in research areas in statistics. We are actively engaged in quantitative fishery management, population dynamics and related research with global orientation in tropical and temperate systems, including a large Chesapeake Bay component. Our emphasis is on developing long-term sampling programs and model development for fishery stock assessment, and on adapting expert systems technology, optimization and control theory, and systems science to fishery management settings. Inquiries with a letter of interest, curriculum vitae, relevant publications, and two references to: Dr. J. Ault, Chesapeake Biological Laboratory, P.O. Box 38, Solomons, MD 20688. Telephone: 301-326-4281, FAX: 301-326-6987. The University of Maryland System is an Equal Opportunity/Equal Opportunity Employer.

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Applications are invited for various CHEMIST positions for the U.S. Army Dugway Proving Ground, Utah. Technical Chemists are needed in both chemical and physics fields. Positions are available in various laboratories and centers and are currently available. This is an opportunity for the select few who qualify to join a team of professionals involved with unique challenges in the fields of chemical detection and analysis, advanced sensors, transfer, and evaluation of "leading-edge-of-technology". The successful applicant will have a 4-year course of study leading to a bachelor's degree or higher from an accredited college with major study in physical sciences, life sciences or engineering, which includes 30 semester hours in chemistry with at least 1 year of professional working experience in analytical chemistry. U.S. citizenship is required. Salary range: GS-12, $37,294 to $48,481; GS-11, $31,116 to $49,449 and GS-09, $25,176 to $35,430. Contact: Mr. L. M. Civilian Personnel Office, Dugway Proving Ground, Dugway, UT 84022-5000, telephone: 801-831-2181, Monday to Thursday, 7:00 a.m. to 5:30 p.m. MDT for information and application packet. An Equal Opportunity/Affirmative Action Employer.

HORTICULTURIST

Provide technical assistance in design and construction of hydroponic growing and controlled environmental agriculture. Thorough knowledge in greenhouse operation and maintenance desired. Demonstrates an understanding of the various aspects of greenhouses and nurseries. Ph.D. in plant science, 5 years experience or 5 years in nursery, greenhouse and hydroponic operations. Annual salary $35,000, located in Fillmore, California. Send this ad and your résumé or letter of qualifications to Job #WS12447, P.O. Box 9560, Sacramento, CA 95832-0560, no later than 4 January 1992.

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STAFF PROGRAMMER. Designs, implements and maintains advanced-prolog system with interfaces to DBMS, graphic, ILC, CAD/CAM and simulation. Conducts research and development of a state-of-the-art prolog interpreter and compiler for various platforms. Develops integrated programming tools to establish a comprehensive development environment for these platforms. Requires: Ph.D. degree and demonstrated background in the following: prior experimentation in theory and practice of logic programming, prolog implementation, WAM or similar prolog compiler, programming language semantics, software engineering, developing prolog knowledge-based systems and interfacing with an RM maintained by CAD/CAM and simulation. Theory and practice of data- and knowledge-based systems, computer architecture, esp. RISC and 3086. Additional experience in object-oriented programming, database systems, and expert systems. Send curriculum vitae and cover letter to: Adjunct Professor, Dept. of Computer Science, CAL Poly Pomona, Pomona, California, 91768. Position open until June 30, 1992.

PERSONNEL PLACEMENT 1845
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SENIOR RESEARCH CHEMIST; Apply in situ perfused rat liver and intestine-liver operations to estimate intestinal absorption and first-pass effect of a number of HIV protease inhibitors. Drug metabolism mechanistic studies. Investigate stereoselective elimination of carbonic anhydrase inhibitors. Apply organ perfusion techniques involving organ isolation and drug metabolism studies. Requires Ph.D. in pharmacy 1 year experience postdoctoral researcher with extensive research and related laboratory experience involving pharmacokinetics and drug metabolism, organic perfusion techniques and drug metabolism studies, including in vivo studies, experiment design and use of perfusion apparatus. Mathematical modeling and related programs including in carbonic anhydrase inhibitors. Postdoctoral experience in controlled drug reanalytical method including HPLC. Forty hours per week; $2800 per month; résumé or curriculum vitae, to: Philadelphia Job Bank, 444 North Third Street, 2nd Floor, Philadelphia, PA 19123, Job Order #4427009.

STAFF SCIENTIST/BIOPHYSICIST

Conduct independent investigations of techniques for in vivo nuclear magnetic resonance (NMR) imaging and spectroscopy at high magnetic fields, including development of theory, experiments, and instrumentation; assume responsibility for developing techniques for spectroscopic imaging using stochastic excitation and rapidly oscillating magnetic field gradients, and for high resolution imaging of flowing and static spins; publish on research accomplished; participate in preparation of grants and proposals; provide expertise and technical assistance to other investigators using the Research Medicine NMR Facility, particularly in the area of imaging, including implementation of novel NMR experiments and design of RF imaging for the UNIX computer systems used in NMR Facility; and supervise postdoctoral fellows and graduate students working on related projects. Qualifications: Skilled in NMR spectroscopy and imaging sufficient to conduct related independent research; expertise in spectroscopic imaging an stochastic NMR substantially by referenced publications; proficiency in C programming; computer methods, and knowledge of the UNIX operating systems at the system manager level; ability to design analog and digital electronic circuits. Ph.D. in bioengineering, bioengineering, or physics with strong emphasis on linear and nonlinear systems theory, signal processing, statistics, and nuclear magnetic resonance. Salary range: $2528 to $6760 per month. Berkeley, California. Send this ad and your résumé to: Job #D 16339, P.O. Box 9560, Sacramento, CA 95823-0560 no later than 1 January 1992. Equal Opportunity Employer.

EAST STRoudsburg UNIVERSITY

ANNOUNCES FACULTY VACANCY IN BIOLOGICAL SCIENCES

Assistant Professor, full-time tenure track, starting August, 1992. Ph.D. required. Ethologist with broad biological background able to teach courses in Comparative Anatomy, Human Anatomy and Physiology, and Introductory Biology. Additional duties may include teaching Population Genetics. Salary Range: $29,905.40-$40,076.20. For consideration, please send letter of application and/or nominations, resume, transcripts, and three (3) letters of reference to: Dr. Richard F. Pekala, Department of Biological Sciences, East Stroudsburg University, East Stroudsburg, PA 18301. Deadline for receipt of all application materials is 1/06/92.

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Neurogen

Opportunities For Regulatory Affairs Professionals

Neurogen, a new pharmaceutical company dedicated to the discovery of novel agents for the treatment of Central Nervous System (CNS) disorders, announces immediate openings for Regulatory Affairs Professionals at our research center in Branford, Connecticut. Neurogen is searching for Regulatory Affairs Professional to support corporate regulatory programs. These include participation in preclinical studies and quality assurance programs. The successful candidate(s) will interface not only with internal personnel but also with external consultants and vendors. Candidates should possess a degree in the biological or chemical sciences and have had 3-5 years experience in the development of human therapeutics; experience with manufacturing and quality control is preferred. Neurogen offers competitive salary commensurate with experience and a comprehensive benefits package as well as an excellent relocation package. In addition, candidates may qualify for participation in the Neurogen Incentive Stock Option Program. Neurogen is an equal opportunity employer. Interested candidates should send resumes to: Personnel Director (RA), Neurogen Corporation, 35 Northeast Industrial Road, Branford, CT 06405.

ASSISTANT PROFESSORS

Full-time, tenure-track positions are available in the Department of Tumor Biology and in the Department of Neurosurgery at The University of Texas M. D. Anderson Cancer Center in Houston for qualified applicants in the area of tumor cell biology, tumor biochemistry, tumor molecular biology or other fields related to cancer research. Particular emphasis will be in the area of cancer invasion and metastasis. Candidates should have a doctoral degree and postdoctoral experience and should demonstrate exceptional potential in research and graduate teaching. Applicants should include a curriculum vitae, names and telephone numbers of at least five references and a 1-2 page statement of current research activities and future interests to: Prof. Garth L. Nicholson, Chairman, Department of Tumor Biology (Box 108) or Prof. Raymond E. Sawaya, Chairman, Department of Neurosurgery (Box 069), The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77030. The University of Texas is an Affirmative Action/Equal Opportunity Employer.

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APPLICATIONS AND NOMINATIONS

Applications and nominations, which should include a curriculum vitae and the names and addresses of three references, should be submitted by March 1, 1992 to: Ecologist Search, c/o Chair, Department of Biology and Dean, School of Forestry & Environmental Studies, Yale University, KBT 1010, P.O. Box 6666, New Haven, CT 06511-8112.

An Affirmative Action/Equal Opportunity Employer. Women and Minority Group Members are especially urged to apply.

Yale UNIVERSITY

ECOLOGIST

Yale University's School of Forestry and Environmental Studies and Department of Biology announce a joint search for a senior Ecologist. Individuals with distinguished records of research on any natural ecosystem are encouraged to apply. We are particularly interested in research scientists whose findings and professional activities bear directly upon policy in environmental sciences.

Applications and nominations, which should include a curriculum vitae and the names and addresses of three references, should be submitted by March 1, 1992 to: Ecologist Search, c/o Chair, Department of Biology and Dean, School of Forestry & Environmental Studies, Yale University, KBT 1010, P.O. Box 6666, New Haven, CT 06511-8112.

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POSITIONS OPEN

The National Wetlands Research Center (NWRC), Wetland Ecology Branch, U.S. Fish and Wildlife Service, has continuing opportunities for PRINCIPAL INVESTIGATORS, ASSOCIATE INVESTIGATORS, and RESIDENT INVESTIGATORS in WETLAND ECOL- OGY. NWRC is interested in individuals with training and experience in: processes (hydrology, sedimentation, or nutrient cycling) important in the maintenance and development of wetlands; the hydrology or biogeochemistry of submerged, emergent, or forested wetland plants, or ecosystem modeling with emphasis in physio- logical plants, aquatic plants, or biogeochemical modeling. NWRC anticipates moving into a new 58,000-square-foot state-of-the-art research laboratory facility on the campus of the University of Southwestern Louisiana, in Lafayette, Louisiana, in 1992. Candidates will be joining an existing interdisciplinary group of scientists with research interests in: global climate change, landscape hydrology, aquatic plant growth, nutrient cycling, or natural landscapes. Areas of interest include: (1) coastal wetland ecology in North and/or South America; (2) the composition, structure, and function of a selected landscape in the United States with emphasis on freshwater habitats. Up to $200,000 to $250,000 per year is anticipated to fund one or more agreements in each of the above categories. Applications are due May 2, 1992. On the basis of the pre-proposals, EPA will invite the submission of a limited number of proposals, which will be externally peer reviewed. Only proposals submitted through EPA institutions, nonprofit institutions of higher education, individuals, or nonprofit research organizations eligible to receive federal assistance under the Clean Air Act as amended (section 103, 42 U.S.C. 1877B) and the Code of Federal Regulations (CFR) part 40—research and demonstration grants—will be invited for full proposals. For more information, contact: Dr. Don Philipps, U.S. EPA, ERL-Corvallis, 200 SW 36th Street, Corvallis, OR 97333. Telephone: 503-757-4485. Pre-proposals are due 31 January 1992. Invitations for full proposals will be mailed by 1 April 1992, with the deadline for receipt 15 May 1992.

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ANALYTICAL AND QUANTITATIVE LIGHT MICROSCOPY IN BIOLOGY, MEDICINE, AND MATERIALS SCIENCE 14 to 22 May 1992. This course deals with the practical aspects of vector biology, including host-seeking, blood-feeding, organ structure-function, gene regulation, vector manipulation and containment, and control, will be covered and followed by in-depth analyses of selected major vector-borne disease systems. Faculty are from the MacArthur Foundation Network on the Biology of Parasite Vectors. The course is designed for advanced graduate students, postdoctoral fellows, and independent investigators. The course can be taken for college credit. Accommodations are located on the campus of Colorado State University (CSU), near lecture and laboratory facilities. Vector-pathogen experimentation and demonstrations will be conducted at the immunology facility of the Arthropod-Borne and Infectious Diseases Laboratory (AIDL) of the CSU Foothills Campus. Limited to 30 students. Enrollment is competitive. Financial support is available. Application deadline is 28 February 1992. For further information and application forms, contact: Dr. Barry Beaty (803-491- 6794 or 491-8604), ADI, Foothills Campus, Colorado State University, Fort Collins, CO 80523.

POSITIONS OPEN

ANNOUNCEMENTS

REQUEST FOR PRE-PROPOSALS

The U.S. Environmental Protection Agency, Environmental Research Laboratory-Corvallis, is requesting pre- proposals for cooperative agreements to develop meth- odology and predictive tools for conducting comparative risk assessment of climate change and habitat modification: (1) a selected faunal group in North and/or South America; and (2) the composi- tion, structure, and function of a selected landscape in the United States with emphasis on freshwater habitats. Up to $200,000 to $250,000 per year is anticipated to fund one or more agreements in each of the above categories. Applications are due May 2, 1992. On the basis of the pre-proposals, EPA will invite the submission of a limited number of proposals, which will be externally peer reviewed. Only proposals submitted through EPA institutions, nonprofit institutions of higher education, individuals, or nonprofit research organizations eligible to receive federal assistance under the Clean Air Act as amended (section 103, 42 U.S.C. 1877B) and the Code of Federal Regulations (CFR) part 40—research and demonstration grants—will be invited for full proposals. For more information, contact: Dr. Don Philipps, U.S. EPA, ERL-Corvallis, 200 SW 36th Street, Corvallis, OR 97333. Telephone: 503-757-4485. Pre-proposals are due 31 January 1992. Invitations for full proposals will be mailed by 1 April 1992, with the deadline for receipt 15 May 1992.

ARE YOU INTERESTED IN SPACE BIOLOGY?

The advent of the Shuttle Program has produced a new era for space biology that offers exceptional opportu- nities for research. NASA is offering RESEARCH ASSOCIATE and POSTDOCTORAL opportunities to conduct SPACE BIOLOGY RESEARCH in a laboratory that can provide the necessary facilities and research environment. The awards vary from $18,000 to $22,000 based on experience and are made for a 12-month period with the possibility of renewal. Funding will begin 1 July to 1 November 1992. Eligible are postdoctoral U.S. citizens. Proposals are due 15 March 1992. For information contact: Dr. Gerald Sonnenfeld, Department of Mi- crobiology and Immunology, School of Medicine, University of Louisville, Louisville, KY 40292. Telephone: 502-588-8317; FAX: 502-588-7043 or Dr. Thora Halstead, Life Sciences Division, NASA Head- quarters, Washington, DC 20546.

MOLECULAR BIOLOGIST. The Bard College Biology Department seeks a broadly trained biologist for a tenure-track position in molecular biology. Candidates with experience in research at the molecular level, in molecular genetic approaches to cell biology, immunology, or developmental biology will be pre- ferred. Candidates must have a commitment to undergraduate science education for both majors and nonmajors, and an interest in those areas of society that affords many opportu- nities for interaction with non-science students and fac- ulty, but also where appropriate half of the undergrad- uate biology majors go on to graduate programs. The successful candidate will be expected to teach two courses per semester from a list that might include molecular biology, cell biology, immunology, developmental biology, eukaryotic genetics, and a course for nonscientists which offers laboratory experience. The candidate should be prepared to conduct research and to involve students in senior project work. Please send curriculum vitae, transcripts, and a list of references to: Toni J. Doran, Coordinator of Personnel Services, Bard College, Annandale-on-Hudson, NY 12504. Application dead- line: 15 January 1992. Applications will be reviewed as received. Bard College is an Equal Opportunity/Affirmative Action Employer and encourages applications from minorities and women.

PATHOLOGIST

Needed immediately by Massachusetts teaching hospi- tal Board-certified/eligible neuropathologist/neuropathic pathologist with experience in diagnostic work and ex- perimental molecular biology to participate in new re- search laboratory on human/simian HIV/SIV-related retinopathy. Requirements include M.D. or M.D./ Ph.D. training. Applicants should have strong record in research. Equal Opportunity Employer. Send copies of résumé to: Umberto DeGirolami, M.D., Department of Pathology, Brigham and Women's Hospital, 78 Francis Street, Boston, MA 02115.

COURSES AND TRAINING

NASA PLANETARY BIOLOGY INTERNSHIPS. The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and senior undergraduate students for awards of $2000 plus travel to participate in research at NASA centers and collaborating institutions for approxi- mately 6 weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, bioenviron- mentalization, and origin and early evolution of life. Application deadline: 1 March 1993. For information, applications, or contact: Dr. Ronald G. Shaffer, Planetary Biology In- ternship, Department of Botany, University of Massa- chusetts, Amherst, MA 01003, email: PBI@ botany.umass.edu. An Equal Opportunity/Affirmative Ac- tion Institution.

MARKETPLACE

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PERSONNEL PLACEMENT 1847
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