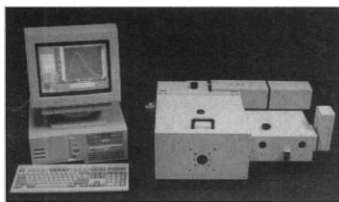


Vertical Gel System

The VGS 1600 Vertical Gel System can be used for the electrophoresis of 16 14-cm polyacrylamide or agarose gels, and separations can be performed at room temperature or with cooling. The system is designed with a rear buffer reservoir covering the entire gel area to distribute heat evenly across the gel surface. Side clamps press glass plates against a gasket to provide uniform pressure and to form a leakproof seal. The heat and pressure distribution system results in even banding patterns without localized thermal distortion (that is, smiling and frowning). For faster runs, the cooling system can be augmented by the flow of cold water into a cooling chamber in the vertical gel support unit. **Stratagene. Circle 137.**

Luminescence Spectrometers

The QuantaMaster Luminescence Spectrometers are designed for performing steady-state fluorescence, steady-state phosphorescence, and phosphorescence lifetimes. Many accessories are available for the systems, including double monochromators for low stray light. The open architecture design allows the user to configure the system to suit the application, and even expand it to per-



form ratio fluorescence and fluorescence lifetime measurements at modest cost. **Photon Technology International. Circle 138.**

Sub-Picogram Nucleic Acid Detection

Fluorescein Gene Images is a nonradioactive nucleic acid labeling and detection system.

Combining the manufacturer's fluorescein-11-dUTP method to label DNA with an alkaline phosphatase-dioxetane detection system achieves very high sensitivity, allowing single copy genomic Southern blots with as little as 0.1 pg of DNA to be detected. In addition, because the light output can last for up to 7 days, multiple exposures can be taken, providing greater result quality and reliability. Further benefits include low background and a simple labeling check. **Amersham International. Circle 139.**

Large-Scale Synthesizer

The OligoPilot DNA/RNA Synthesizer is a system for large-scale oligonucleotide synthesis between 10 and 400 μ mol. It is designed for production of antisense oligonucleotides and DNA probe-based kits. It is equipped with 12 amidite ports and two high-capacity P-6000 pumps that give reliable liquid delivery through loading, coupling, and detritylation. The range of stainless steel flow-through synthesis columns (scales 10, 50, 100, 200, and 400 μ mol) ensures short cycle times, three times faster than conventional columns. The unit is fully programmable via an external computer. **Pharmacia Biotech. Circle 140.**

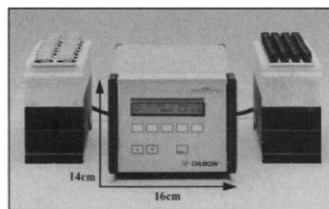
Separation Matrix

TreviGel 500, a safer replacement for polyacrylamide, is a separation matrix for use in the analysis of polymerase chain reaction DNA fragments by horizontal gel electrophoresis. The gel features transparency, great gel strength, and high resolving power for DNA fragments in the range of 50 to 1300 bp. The matrix is

available in powder form or in 2% precast gels ready to use in any horizontal electrophoresis unit. **Trevigen. Circle 141.**

Thermoelectric Sample Heating and Cooling

The 832 Rack Temperature Regulator, based on Peltier thermoelectric effect cells, provides heating and cooling of samples in thermostatted racks. The module offers improved performance and



convenience over standard liquid-circulating cryothermostats traditionally used to regulate rack temperatures. The unit is designed for applications that require controlled sample heating and cooling, since it conserves the integrity of biological samples, prevents evaporation of volatile solvents, and speeds up enzymatic reactions and chemical derivatizations. **Gilson Medical Electronics. Circle 142.**

Monoclonal Antibodies

A monoclonal antibody (mAb) for human transforming growth factor β -1 is useful for functional neutralization, protein immunoblotting, immunoassay development, and paraffin-embedded tissue staining. **Antigenix America. Circle 143.**

Goat and donkey anti-mouse immunoglobulin G tagged with green, orange, and far-red fluorophores are now available for use in flow cytometry, immunoassays, and immunofluorescence micros-

copy. These secondary antibodies produce intense signals, exhibit low nonspecific binding, and are provided in a stable, lyophilized form. **Biological Detection Systems. Circle 144.**

The WAF1 (Ab-1) mouse mAb detects p21^{WAF1} protein by immunoblotting and immunoprecipitation. The p21^{WAF1} protein is a potent inhibitor of cyclin-dependent kinases active in the G1 phase of the cell cycle. **Oncogene Science. Circle 145.**

Literature

Biosep for the Analysis of Proteins, Peptides, and Other Biomolecules is a 12-page brochure outlining the features and benefits of these columns for biochromatography. **Phenomenex. Circle 146.**

Current Titles in Glycobiology is a quarterly publication that provides researchers with the latest references relating to one of the fastest growing life sciences. More than 200 life science journals are scanned each month by experts in information science. Titles are selected on the basis of both key words and content of papers read. **Oxford GlycoSystems. Circle 147.**

Introducing a Universal Ion Chromatograph is a brochure on a system for both single-column and suppressor-based ion chromatography. **Alltech Associates. Circle 148.**

Microbiology is a 131-page catalog of culture media products for general microbiology, environmental and food analysis, and molecular biology. The catalog also details base ingredients, antibiotics, additives, dyes, and indicators. **Fluka Chemical. Circle 149.**

Bringing New Technology to LC/MS and GC/MS describes the VG Platform II, which offers state of the art organic analysis. **Fisons Instruments. Circle 150.**

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

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POSITIONS OPEN

COMPARATIVE ANATOMY AND PHYSIOLOGY

PENN STATE's Biology Department seeks two **ASSISTANT PROFESSORS** for fall 1995. Applicants must have postdoctoral experience and ability to develop an externally funded research program. One candidate will have teaching responsibility in comparative anatomy (CA) and the other in animal/cell physiology (ACP). Send letter of application, indicating research and teaching strengths and interests, curriculum vitae, one key publication, and three letters of reference to: **Linda Maxson, Box CA (or ACP), Department of Biology, 208 Mueller Lab, Pennsylvania State University, University Park, PA 16802-5301.** Screening of applicants will begin immediately and continue until suitable candidates are found. *An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.*

BASIC NEUROSCIENCE POSITIONS NEURODEGENERATIVE DISEASE SCHOOL OF MEDICINE UNIVERSITY OF CONNECTICUT HEALTH CENTER

As part of a state-funded initiative in the neurosciences, evaluation of candidates will begin immediately for up to four tenure-track positions in the areas of molecular and cellular neurobiology, neurogenetics and neuroimmunology, related to neurodegenerative disease. Appointments will be made at the levels of **ASSISTANT PROFESSOR, ASSOCIATE PROFESSOR** and/or **PROFESSOR** in the Department of Pharmacology. The appointees will also become members of the inter-departmental Program for Neurological Sciences. Areas of interest include, but are not restricted to, aging and Alzheimer's Disease, neuronal degeneration, demyelinating disease and regenerative processes. Interest will be centered around individuals with the capacity to develop and lead strong, vigorous, independent research programs. Candidates should send curriculum vitae, a description of current and future research interests, and the names of three references to: **Dr. Steven E. Pfeiffer, Chair of Search Committee, Department of Microbiology, University of Connecticut Medical School, Farmington, CT 06030-3205.** *An Affirmative Action/Equal Opportunity Employer. Male/Female/Disabled/Veteran.*

ASSISTANT/ASSOCIATE PROFESSOR OF PATHOLOGY

The Department of Pathology and Laboratory Medicine, University of Kentucky, College of Medicine seeks a faculty member for a tenure-track position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. The department has developed a focused research program in ovarian neoplasia and seeks an investigator whose research interests are in the area of stromal/epithelial interactions. Applicants with an M.D. or M.D./Ph.D. are preferred, and will have the opportunity to participate to a limited extent in the clinical programs of the department. Teaching at the graduate student and resident level is also part of the responsibilities for this position. Candidates should send curriculum vitae, statement of research interests, and the names of three references to: **Deborah Powell, M.D., Professor and Chair, Department of Pathology, University of Kentucky, CC-453 Markey Cancer Center, 800 Rose Street, Lexington, KY 40536-0093.** *The University of Kentucky is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT/ASSOCIATE PROFESSOR, NEUROBIOLOGY COLUMBIA UNIVERSITY

Applications are invited for a tenure-track position in the Center for Neurobiology and Behavior at Columbia University, College of Physicians and Surgeons. Applicants must possess a Ph.D. or M.D. and have at least two years of postdoctoral training. Successful candidates will be expected to develop a vigorous, independent research program in the systems-level analysis of sensory processing or of learning. Submit curriculum vitae, names and addresses of three references, and summary of research objectives to: **Search Committee, Center for Neurobiology and Behavior, New York State Psychiatric Institute, 722 West 168th Street, New York, NY 10032.** *Columbia University takes Affirmative Action to ensure Equal Opportunity.*

POSITIONS OPEN

FACULTY POSITION HUMAN GENE THERAPY

The College of Medicine at the University of Florida invites applicants for a full-time, tenure-track position at the **ASSISTANT** to **FULL PROFESSOR** level. This position is available for an individual with an M.D. and/or Ph.D., with a minimum of two years postgraduate research experience in gene therapy, mammalian genetics, or mammalian virology. Strong interest in and commitment to the clinical application of human gene therapy and/or vector development required. The position will involve joint clinical/basic science appointments as appropriate within the Gene Therapy/Vector Development Center in the College of Medicine at the University of Florida. The successful applicant will be expected to: A) direct an independent research program in mammalian genetics, human gene therapy, or mammalian virology; B) facilitate the development of a production-level gene therapy lab; and C) assist in the development of human applications for gene therapy. The anticipated start date is January 1, 1995, and the salary is negotiable. Send curriculum vitae, bibliography, a brief description of research interests, and names and addresses of three references by September 30, 1994, to: **Dr. Nicholas Muzyczka, Gene Therapy Center, care of Department of Immunology and Medical Microbiology, Box 100266, University of Florida, Gainesville, FL 32610.**

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

FACULTY POSITIONS MOLECULAR GENETICS

The Department of Genetics, University of Illinois College of Medicine, is seeking candidates for faculty positions in mammalian molecular biology and genetics. The positions, starting on or after July 1, 1995, will be for tenure-track **ASSISTANT PROFESSOR** up to tenured **FULL PROFESSOR** depending upon the candidate's qualifications. Candidates must have a Ph.D. or its equivalent, plus postdoctoral research experience in mammalian molecular genetics or related areas. Areas of special interest include the molecular genetics of human disease and also gene therapy. Candidates working with yeast systems relevant to problems in mammalian molecular biology can be considered. Significant research accomplishments and publications, evidence of outstanding research potential, and success in obtaining external research funding (or outstanding potential for such funding) will be key considerations. Applicants should provide curriculum vitae, names and addresses of four references, and a brief statement of research interests and plans. To receive fullest consideration, applications should be received by November 1, 1994. Send applications to: **Dr. Richard L. Davidson, Head, Department of Genetics, University of Illinois College of Medicine, 808 South Wood Street, Chicago, IL 60612.** *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

FEMALE UROLOGY/BASIC RESEARCH. The Section of Urology at the University of Chicago is seeking candidates for two full-time positions at the **ASSISTANT PROFESSOR** level. The Section is seeking candidates for a position in Female Urology who would assume a significant instructional role in the University of Chicago Urology Residency Program at Louis A. Weiss Memorial Hospital, and clinical research within the Section of Urology. Candidates should be board-certified or board-eligible in urology. **THIS POSITION WILL BE AVAILABLE SPRING 1995.** The Section is also seeking applicants for a position in **BASIC RESEARCH.** The successful applicant should have extensive background in molecular biology of urological malignancies. Responsibilities include research; teaching at the undergraduate, graduate and postgraduate levels; and directing the research program in the Section of Urology. A postdoctoral fellowship in molecular biology or a related field is desirable. **THIS POSITION WILL BE AVAILABLE SEPTEMBER 1, 1994.** Please send inquiries and curriculum vitae to: **Charles B. Brendler, M.D., Section of Urology, The University of Chicago, 5841 South Maryland Avenue, MC 6038, Chicago, IL 60637.** *The University of Chicago and its Medical Center are Affirmative Action/Equal Opportunity Employers. Applications from women and representatives of minority groups are encouraged.*



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In addition to opportunities to interact with members of the world's finest corporate scientific and academic communities, you will enjoy a competitive stipend, medical/dental insurance coverage and the many lifestyle advantages of our southeast Connecticut location. Relocation assistance is available. For confidential consideration, please send your curriculum vitae and the names of three references to: **Employee Resources, Code: NRA, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340.**



Central Research

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POSTDOCTORAL RESEARCH

Lawrence Livermore National Laboratory (LLNL) has a postdoctoral research position available to develop and apply the tools of molecular cytogenetics to quantify the effects of adverse environmental exposure. Recent doctoral-level degree and relevant publications in cytogenetics, molecular biology, toxicology or a related discipline are required. The applicant will be expected to develop improved molecular cytogenetic methods and to apply these methods to people exposed to ionizing radiation as a result of the Chernobyl nuclear reactor accident. Experience in organic synthesis is preferred. Applicants must be able to interact across scientific disciplines and to function as a member of a large team of scientists.

LLNL offers a challenging work environment and a competitive salary/benefits package. Interested applicants are invited to mail a resume to: **Ms. Quincy McClain, Recruiting and Employment Division, Lawrence Livermore National Laboratory, P.O. Box 5510, L-725, Dept. AJSC8C4QM, Livermore, CA 94551.** U.S. Citizenship required. We are proud to be an Equal Opportunity Employer. M/F/D/V.

University of California



Department of Health
and Human Services
Public Health Service
National Institutes of Health
National Institute on
Deafness and
Other Communication Disorders

DIRECTOR, DIVISION OF
INTRAMURAL RESEARCH

Opening Date: Monday, May 23, 1994

Closing Date: Thursday, September 1, 1994

(All applications must be post-marked by the closing date.)

The National Institute on Deafness and Other Communication Disorders (NIDCD) is recruiting for the position of Director, Division of Intramural Research (DIR). The Director, DIR, directs a program of multi-disciplinary fundamental and clinical research for the NIDCD. The Director, DIR, serves as the principal advisor to the Institute Director on biomedical and scientific affairs involving the intramural research programs conducted by basic and clinical research investigators in the field of deafness and other communication disorders. The Director develops and recommends policies for the execution of the intramural research programs, determines their ongoing effectiveness, and recommends or develops new or revised direct research programs. The Division of Intramural Research has an FY 1994 budget of \$9.3 million and a current FTE ceiling of 43. In collaboration with senior officials, the Director, DIR, participates in the design and implementation of overall Institute management policies including program planning, budget formulation, and resource allocation.

This is a Civil Service position in the Senior Executive Service (SES), with base salary currently from \$96,830 to \$120,594 per year depending on qualifications. SES members are eligible for various bonuses and awards, and physicians are eligible for a comparability allowance of up to \$20,000 per year, although total compensation cannot exceed the rate for Executive Level I (currently \$148,400 per year). (Alternatively, applicants may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) The SES individual selected, if not presently in the Senior Executive Service, must serve a one year probationary period.

Further information about the position and qualification requirements may be obtained by contacting Ms. Donna A. Brooks at (301) 402-0508 (Voice or TDD) or TDD (301) 402-1134. An Application for Federal Employment (SF-171) along with a Curriculum Vitae and Bibliography should be submitted to:

Ms. Donna A. Brooks
Personnel Officer, NIDCD
National Institutes of Health
National Institute on Deafness and
Other Communication Disorders
9000 Rockville Pike
Building 31, Room 3C11
Bethesda, Maryland 20892

Additional information may be obtained from:
Dr. Robert B. Nussenblatt, Chairperson, NIDCD Search Committee
for

Director, Division of Intramural Research, NIDCD
National Institutes of Health
9000 Rockville Pike
Building 10, Room 10N202
Bethesda, Maryland 20892
(301) 496-3123

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICS, MARITAL STATUS, PHYSICAL OR MENTAL HANDICAP, AGE, SEXUAL ORIENTATION OR MEMBERSHIP OR NON-MEMBERSHIP IN AN EMPLOYEE ORGANIZATION.

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POSITIONS OPEN

ASSISTANT PROFESSOR MACROMOLECULAR CRYSTALLOGRAPHY

Department of Biochemistry and
Molecular Genetics
University of Alabama at Birmingham (UAB)

Applications are invited for a tenure-track position. UAB offers exceptional opportunities for collaborative research in macromolecular structure and rational drug design. The candidate will be expected to develop a vigorous independent research program and to participate in the teaching activities of the department's graduate program. He/she will hold secondary appointments in the Center for Macromolecular Crystallography and in the Comprehensive Cancer Center. Salary for this 12-month appointment will be commensurate with the candidate's qualifications. Applicants should submit curriculum vitae, a statement of research interests and future research plans, and a list of at least three references to: **Dr. Stephen C. Harvey, Chair, Search Committee, Department of Biochemistry and Molecular Genetics, Schools of Medicine and Dentistry, University of Alabama at Birmingham, Birmingham, AL 35294-0005. The UAB is an Equal Opportunity/Affirmative Action Employer.**

BIOLOGY/MEDICAL TECHNOLOGY

The Department of Biology of The College of Staten Island (CSI) of the City University of New York seeks candidates for a tenure-track position at the rank of **ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR** to teach in the Medical Technology and Medical Laboratory Technology programs. Preferred areas of expertise are microbiology, immunology, clinical chemistry, and body fluid analysis. Doctorate or equivalent, ASCP certification or equivalent, five years recent clinical experience, and teaching experience required. Candidates should have a commitment to program development and research publication. To start February 1 or September 1, 1995. Salary and rank commensurate with qualifications. Salary range: Assistant Professor, \$31,128 to \$52,213; Associate Professor, \$40,563 to \$60,212.

A comprehensive senior college, CSI moved recently to a new, 204-acre campus with state-of-the-art facilities and equipment.

Send curriculum vitae and names and addresses of three references by October 24, 1994, to: **Dr. Jacqueline LeBlanc, Chairperson, Department of Biology, Biological/Chemical Sciences Building, Room 143, The College of Staten Island/City University of New York, 2800 Victory Boulevard, Staten Island, NY 10314. Equal Opportunity/Affirmative Action/ADA Employer.**

ANTICIPATED POSITIONS—PROFESSOR/RESEARCH, ASSOCIATE PROFESSOR/RESEARCH, ASSISTANT PROFESSOR/RESEARCH. The Pennington Biomedical Research Center (PBRC), a research facility of Louisiana State University (LSU), announces the following position. The incumbent will oversee an ongoing externally funded project studying behavioral and physiological effects of stress and their potential prevention by nutritional strategies. Position to be filled by September 1, 1994. Competitive salary commensurate with experience. The successful candidate will be hired at the rank of Professor/Research, Associate Professor/Research, or Assistant Professor/Research depending upon qualifications. Send curriculum vitae and three letters of reference by August 15, 1994, to: **Evelyn P. Bennett, Assistant Director, HRM Pennington Biomedical Research Center REF: Neuroscience-2, 6400 Perkins Road, Baton Rouge, LA 70808. LSU/PBRC is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR. Department of Physiological Sciences at UCLA. An adjunct, non-tenure-track position is available beginning in October 1994. Applicants should have a Ph.D. and be capable of teaching undergraduate physiology. The primary duties for this position are organizing and supervising an undergraduate physiology course with emphasis on vertebrate systems. Send curriculum vitae and three letters of reference to: **Dr. James Tidball, Department of Physiological Science, 405 Hilgard Avenue, University of California, Los Angeles, CA 90024-1527. The University of California is an Equal Opportunity Employer and encourages applications from women and members of minorities.**

POSITIONS OPEN

FACULTY POSITIONS MOLECULAR ONCOLOGY

The Department of Genetics, University of Illinois College of Medicine, is seeking candidates for faculty positions in molecular oncology. The positions, starting on or after July 1, 1995, will be tenure-track **ASSISTANT PROFESSOR** up to tenured **FULL PROFESSOR** depending upon the candidate's qualifications. Candidates must have a Ph.D. or its equivalent, plus postdoctoral experience in molecular biological research related to cancer. Significant research accomplishments and publications, evidence of outstanding research potential, and success in obtaining external research funding (or outstanding potential for such funding) will be key considerations. Applicants should provide a curriculum vitae, names and addresses of four references, and a brief statement of research interests and plans. To receive fullest consideration, applications should be received by November 1, 1994. Send applications to: **Dr. Richard L. Davidson, Head, Department of Genetics, University of Illinois College of Medicine, 808 South Wood Street, Chicago, IL 60612. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.**

ASSISTANT PROFESSOR

Applications are invited for a position at the level of **ASSISTANT PROFESSOR** (tenure-track) in the Department of Chemistry at Stanford University. Preference will be given to individuals teaching organic chemistry. Appointment would commence on September 1, 1995. Applicants must be strongly motivated toward creative research and have a commitment to teaching at the undergraduate and graduate levels. Applicants should send 1) current curriculum vitae; 2) a list of publications, and 3) a brief statement of research interests (three pages or less) to: **Professor Robert Pecora, Chairman, 1995 Search Committee, Department of Chemistry, Stanford University, Stanford, CA 94305-5080.** Applicants should arrange to have three letters of recommendation sent on their behalf directly to the address listed above. Completed applications must be received by October 15, 1994. *Stanford University is committed to Equal Opportunity through Affirmative Action in Employment, and is especially eager to identify minority persons and women with appropriate qualifications.*

ASSISTANT/ASSOCIATE PROFESSOR GYNECOLOGY AND OBSTETRICS

Applications are invited for a tenure-track position in the Research Division of the Department of Gynecology and Obstetrics at the Emory University. The successful candidate will have three or more years of postdoctoral experience and will be expected to establish strong externally funded research program. Applicants for the Associate Professorship should have extramural funding. Research interest in the area of hormone receptors, macrophage biology, inflammation, aging and menopause, tumor cell biology and reproductive endocrinology is desirable. Candidates should send curriculum vitae, description of research interests and the names of three references to: **Dr. Sampath Parthasarathy, Box 21246, Department of Gynecology and Obstetrics, Emory University School of Medicine, Atlanta, GA 30322 before September 15, 1994. Emory University is an Equal Opportunity Employer.**

ASSISTANT/ASSOCIATE PROFESSOR Gene Therapy for Cancer/Radiation Oncology

The University of Alabama at Birmingham (UAB) Gene Therapy Program and the Department of Radiation Oncology of the UAB Comprehensive Cancer Center are jointly recruiting a faculty member to join the Gene Therapy Program and the Division of Radiation Biology. The successful candidate will have had previous training in Gene Therapy and/or Molecular Biology. It is anticipated that the candidate will establish an independent program targeted toward the development of novel therapeutics employing the combined modalities of Radiation Oncology and Gene Therapy. The principle thrust of this effort will be the rapid translation of experimental models into preclinical and clinical trials. Contact: **David T. Curiel, M.D., Director, Gene Therapy Program, University of Alabama at Birmingham, 1824 Sixth Avenue South, Wallace Tumor Institute—Room 620, Birmingham, Alabama 35294. Telephone: 205-934-8627. FAX: 205-975-7476.**

POSITIONS OPEN

ASSISTANT PROFESSOR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY THE UNIVERSITY OF GEORGIA

The Department of Biochemistry and Molecular Biology has an opening for a faculty member at the level of **ASSISTANT PROFESSOR**. Candidates must have commitment to excellence in research as well as to undergraduate and graduate instruction. The department is seeking someone with expertise in any area of Biochemistry or Molecular Biology, preferably utilizing eukaryotic systems. Applications received by November 15, 1994, are assured of consideration. Please send a letter briefly describing your research interests, a curriculum vitae and three letters of recommendation to: **Dr. Alan Przybyla, Department of Biochemistry and Molecular Biology, Life Sciences Building, The University of Georgia, Athens, GA 30602-7229. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.**

ASSISTANT/ASSOCIATE PROFESSOR OF NEUROLOGY. University of California, San Francisco (UCSF). The Department of Neurology at UCSF and the Gallo Center seek exceptional M.D. and/or Ph.D. candidates at the level of Assistant or Associate Professor of Neurology in Residence, based at San Francisco General Hospital. Successful candidates are expected to have potential for a strong, independently funded research program and credentials in teaching. An interest in alcohol research is preferred, with demonstrated scholarship in the areas of cellular and molecular neuroscience, particularly regarding ligand-operated ion channel function. Excellent salary support and laboratory facilities are available. Send curriculum vitae, research interests and names of three references to: **Ivan Diamond, M.D., Ph.D., Department of Neurology, Building 1, Room 101, 1001 Potrero Avenue, San Francisco, CA 94110. The Ernest Gallo Clinic and Research Center and The University of California, San Francisco are Equal Opportunity/Affirmative Action Employers. Women, minority groups and disabled individuals are encouraged to apply.**

FACULTY POSITION

The Department of Pharmacology and Toxicology of the Albany Medical College is seeking to fill a faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. Applicants from all areas of pharmacology or toxicology are encouraged to apply. Currently, the department has strengths in neuroscience, neuropharmacology, cardiovascular pharmacology, and receptor pharmacology. The successful applicant is expected to have a vigorous, funded research program and will participate in the teaching of graduate and medical pharmacology. Send curriculum vitae, statement of research interests, and three letters of recommendation to: **Chair, Search Committee, Department of Pharmacology and Toxicology, A-136, Albany Medical College, Albany, NY 12208. An Affirmative Action/Equal Opportunity Employer.**

Polymer/Analytical-Physical Chemistry: The College of Staten Island (CSI), a senior college of The City University of New York (CUNY), invites applications for a tenure-track faculty position at the **ASSISTANT or ASSOCIATE PROFESSOR** level. The Chemistry Department participates in CUNY Ph.D. programs in polymer chemistry and biochemistry. The College recently moved to a new 204-acre campus equipped with first-rank teaching and research facilities. A Ph.D. is required for this position, with postdoctoral experience preferred. Candidates should have research expertise in areas that complement our strengths in polymers and biopolymers. The successful candidate will be expected to put equal emphasis on establishing a vigorous research program and demonstrating a sustained commitment to undergraduate and graduate teaching. Primary undergraduate teaching responsibility will be analytical chemistry. Appointment is effective February or September 1995. Applicants should submit curriculum vitae, list of publications, description of research and teaching interests, a brief description of research equipment needs, and names and addresses of three references by September 15, 1994, to: **Professor Nan-Loh Yang, Chair, Search Committee, Department of Chemistry, The College of Staten Island/City University of New York, 2800 Victory Boulevard, Staten Island, NY 10314. Equal Opportunity/Affirmative Action Employer.**



THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY

Department of Chemistry FACULTY POSITIONS

The Hong Kong University of Science and Technology, with the mandate to become one of the eminent technological research universities in the world, was opened in October 1991, with programmes at both undergraduate and post-graduate levels. The medium of instruction is English. The Department of Chemistry invites applications for the following positions in all areas of chemistry: Professor: min. US\$107,300 p.a.; Reader: US\$78,400 - US\$104,100 p.a.; Senior Lecturer: US\$75,100 - US\$100,900 p.a.; Lecturer: US\$48,400 - US\$80,800 p.a. The research thrust of the Chemistry Department includes: 1) Novel Analytical Techniques (NAT); 2) Laser Spectroscopy and Applications (LSA); 3) Advanced Materials/Polymers (AMP); and 4) Drug Discovery, Design and Synthesis (D²S). Applications are particularly invited for Professor/Reader positions with expertise in Chemical/Biomolecular Sensors. Applications in response to earlier advertisements will automatically be reviewed and such candidates need not re-apply. Generous fringe benefits including medical and dental benefits, annual leave, and children's education allowances are provided. Air passages and housing are also provided where applicable. Initial appointments will generally be on a three-year contract; a gratuity of an amount equal to 25% of the basic salary drawn will be payable upon successful completion of contract. Re-appointment after the initial contract will be subject to mutual agreement. Approved sabbatical leave will be at full salary. Applications should be sent with a C.V., together with names and addresses of three referees to Professor Nai-Teng Yu (for NAT and LSA), Professor H. Hiraoka (for AMP), or Dr. Richard Haynes (for D²S), Department of Chemistry, The Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong (Fax: 852-358-1594) by October 15, 1994, but the search will continue until suitable appointments are made.

UNITED ARAB EMIRATES UNIVERSITY FACULTY OF MEDICINE & HEALTH SCIENCES

ASSOCIATE PROFESSOR/PROFESSOR DEPARTMENT OF PHYSIOLOGY

Applications are invited for the above position in the Faculty of Medicine and Health Sciences, a developing Medical School founded in 1986.

Individuals should have extensive experience of teaching human physiology to undergraduate and postgraduate medical students. The Department places special emphasis on the integrative role of Physiology in the curriculum founded on the concept of problem based learning. Fluency in English is essential as this is the language of instruction.

Applicants must have a significant number of publications in international journals and a highly credible research record preferably in cardiac or smooth muscle electrophysiology, control of electrolyte or fluid volume microcirculation or respiration. The ability to offer leadership to junior colleagues in departmental activities is expected.

Benefits for this position are of the highest order and include a competitive tax-free salary, free accommodation, furniture allowance and assistance with children's tuition fees (for up to 3 children). Also provided is an interest free car loan and cash-in-lieu of equivalent annual return air fares to the country of residence. An award of 8.6% of the gross annual salary is paid after each year of service.

The Emirates offers a very attractive lifestyle with all the amenities of any modern society.

Formal application can be made by forwarding a comprehensive curriculum vitae, list of publications and names and addresses of four referees to:-

Director of Personnel, Faculty of Medicine and Health Sciences, United Arab Emirates University, P O Box No. 17666, Al Ain, United Arab Emirates. Fax No + 971-3-657649.

Applications will be closed 6 weeks after the date of publication.

The National Institutes of Health National Center for Human Genome Research

The new intramural program of the National Center for Human Genome Research (NCHGR), part of the National Institutes of Health (NIH) located in Bethesda, Maryland, is now in operation. Scientists with a unique range of expertise and interests have been recruited to focus on the identification, localization, diagnosis, and treatment of human genetic disease.

We are now actively recruiting research scientists in the field of

Quantitative and Statistical Genetics

The NCHGR is recruiting genetics researchers at varying levels of seniority. Successful applicants will have responsibility for working in a research team developing and implementing statistical methods for linkage analysis of human genetic disorders. Successful applicants will be major collaborators with NCHGR researchers in designing experimental protocols for recruiting and genotyping families with various inherited disorders, in database design and data handling, and in analyzing genotyping data in families.

A Ph.D. in Genetics, Statistics, or an equivalent field is preferred. This training must be combined with an intensive knowledge of quantitative and statistical genetics and with computer-based methods for storing and analyzing genetic data. Experience in developing and testing new methods in statistical genetics is essential and therefore a strong background in advanced mathematical statistics is highly desirable.

Competitive salary and benefit packages are available. Please forward curriculum vitae and three references to:

Robert L. Nussbaum, M.D.
Chief, Laboratory of Genetic Disease Research
NIH/NCHGR
Building 49 Room 4A72
9000 Rockville Pike
Bethesda, MD 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

POSITIONS OPEN

HEALTH SCIENCE MANAGER

A leading scientific and regulatory affairs consulting firm, ENVIRON provides a broad range of risk assessment services to clients addressing the multifaceted issues associated with human exposure to hazardous substances. Our clients include some of the nation's leading law firms, Fortune 100 companies, national trade associations, insurance professionals, and public sector agencies concerned with health risk assessment and environmental issues.

We are seeking a **HEALTH SCIENTIST** with at least eight years of experience, who holds an M.S. or Ph.D. in toxicology, pharmacology, public health, or a related discipline. We require prior consulting and risk assessment experience, as well as strong analytical ability and excellent writing skills.

ENVIRON offers competitive salaries and benefits, as well as career development and advancement opportunities. Please submit your résumé to: ENVIRON Corporation, Department SM894, 214 Carnegie Center, Princeton, NJ 08540-6284. ENVIRON is an Equal Opportunity Employer.

FACULTY POSITION in CELL BIOLOGY TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY

The Bruce Rappaport Faculty of Medicine of the Technion invites applications for a tenure-track position at the **SENIOR LECTURER to PROFESSOR** level in all areas of molecular cell biology. The successful applicant will be expected to conduct an independent and fundable research program of high quality, to participate in the teaching of Histology, Gross Anatomy of Embryology to medical students, and to teach graduate students in applicant's area of expertise. Please submit curriculum vitae, a brief statement of research interests and the names of three references to: **Professor Peretz Lavie, Dean, Bruce Rappaport Faculty of Medicine, Technion, P.O. Box 9649, Haifa 31096, Israel.**

FACULTY POSITION

The Department of Medicine and the Division of Life Sciences of the College of Letters and Sciences at UCLA seeks a distinguished scientist (Ph.D. or M.D.) with internationally recognized achievements in the area of the genetics of cardiovascular disease, especially as it pertains to the biology of the vascular wall. This tenured position can be offered at the **FULL PROFESSOR** level. Experience in the application of quantitative trait locus mapping with animal models as well as human genetic analysis is highly desirable. The successful candidate is expected to teach in the area of mammalian genetics at both the undergraduate and graduate levels. Candidates with an established program of independent research and effective collaboration are invited to submit curriculum vitae and three letters of reference to: **Peter A. Edwards, Ph.D., Chair, Search Committee, Department of Biological Chemistry, UCLA School of Medicine, Room 33-257 CHS, Los Angeles, CA 90024. UCLA is an Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL RESEARCH FELLOWSHIPS IN ENDOCRINOLOGY. The Endocrine Research Unit, Mayo Clinic, has openings in an NIH-funded postgraduate training program for qualified M.D. and Ph.D. candidates. Fifteen NIH-supported faculty are involved in basic studies of several areas, including studies of diabetes with emphasis on metabolism (P. Butler, M. Jensen, R. Rizza, F. Schwenk, and S. Nair), bone/calcium metabolism (L. Fitzpatrick, R. Turner, and L. Riggs), growth factors (C. Conover), thyroid stimulating hormone (J. Morris), Grave's ophthalmopathy (R. Bahn and Colum Gorman) and control of gene expression (N. Eberhardt and D. Tindall). The programs provide excellent training experiences in very well-equipped laboratories investigating molecular, cellular and organ level endocrinology. NIH stipends are supplemented according to standard Mayo policy. Appointments are made for a minimum two-year period with maximum support up to three years. Candidates must be United States citizens or have resident alien status. Interested individuals should contact: **Normal L. Eberhardt, Ph.D., 4-407 Alfred, Mayo Clinic, Rochester, MN 55905. Telephone: 507-255-6554. FAX: 507-255-4828. Mayo Foundation is an Affirmative Action Educator and Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIP

**Joslin Diabetes Center
Harvard Medical School**

POSTDOCTORAL POSITION available to study the regulation of gene expression in mouse embryos during diabetic pregnancy. Experience in molecular biology required, and background in developmental biology or diabetes research desired. Send letter stating research interests, curriculum vitae, and the names of three references to: **Mary R. Loeken, Ph.D., Co-head, Section on Molecular Biology, Joslin Diabetes Center, One Joslin Place, Boston, MA 02215. Joslin Diabetes Center is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS IN MOLECULAR AND CELLULAR BIOLOGY

POSTDOCTORAL POSITIONS available immediately for recent Ph.D.'s interested in nuclear architecture. Topics include chromosomal DNA organization in *Saccharomyces cerevisiae* (Gartenberg; PNAS, 90: 10514, 1993) and nuclear migration in *Aspergillus nidulans* (Morris; PNAS, 91: 2100, 1994). Strong background in molecular and/or cellular biology essential. Send curriculum vitae and letters of recommendation to: **Dr. Ron Morris or Dr. Marc Gartenberg, Department of Pharmacology, University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854.**

POSTDOCTORAL POSITION available immediately in laboratory studying the role of the inositol phosphate cascade in visual transduction. Experience using single-cell electrophysiological techniques is preferable. Applicants should forward curriculum vitae, description of previous research experience and names of three references to: **Dr. Alan Fein, Department of Physiology, University of Connecticut Health Center, 263 Farmington Avenue, Farmington, CT 06030 MC 3505.**

POSTDOCTORAL POSITION MOLECULAR NEUROBIOLOGY OF HYPERTENSION

This position will involve *in situ* hybridization studies of the expression of noradrenergic receptors and other endogenous and exogenous substances in the central nervous system in relationship to hypertension and other risk factors in cerebrovascular disease. Various animal models of hypertension are employed in both rats and monkeys. Position requires a Ph.D. or M.D. with research training in molecular biology and/or chemical neuroanatomy. This position would be in the Cardiovascular Institute and the Department of Anatomy and Neurobiology at Boston University Medical Center under the sponsorship of **Drs. Harry Gavras, Douglas Rosene and Mark Moss.** Send résumé and names of two references to: **Dr. Douglas Rosene, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION

**Vermont Cancer Center
University of Vermont College of Medicine**

A two-year **POSTDOCTORAL POSITION** is available in one of a variety of research programs of the Vermont Cancer Center, including DNA damage and repair, experimental therapeutics, cancer control, carcinogenesis, cancer genetics, or immunobiology. The Vermont Cancer Center is a special component of the University of Vermont College of Medicine in Burlington, Vermont. It is one of 27 National Cancer Institute-designated Comprehensive Cancer Centers. Burlington is in a superb location next to Lake Champlain and the Green Mountains.

Applicants should forward curriculum vitae, a description of research interests/experience and three letters of reference by September 1, 1994, to: **Richard Albertini, M.D., Ph.D., Director, Vermont Cancer Center, One South Prospect Street, Burlington, Vermont 05401; FAX: 802-656-8788.**

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

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE.

Oxidative DNA damage and repair. Requires Ph.D. in science. Experience in cell culture, chromatin isolation, free radical chemistry, and DNA damage and repair advantageous. Fluency in English and ability to drive desirable. Send résumé and three reference letters to: **Drs. Govind Rao/Miral Dizdaroglu, 252 TRC, University of Maryland Baltimore County, Baltimore, MD 21228 by September 15, 1994. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL RESEARCH ASSOCIATE.

Fluorescence Sensing. Requires Ph.D. in physical sciences/engineering, with experience in time-resolved fluorescence. Experience with frequency domain methods, light modulation and sensors desirable. Knowledge of probe chemistry a plus. Send résumé and three reference letters to: **Drs. Govind Rao/Joseph R. Lakowicz, 252 TRC, University of Maryland Baltimore County, Baltimore, MD 21228 by September 15, 1994. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITIONS

**YALE UNIVERSITY SCHOOL OF MEDICINE
Signal Transduction and Gene Regulation**

Several postdoctoral positions are immediately available to study the molecular mechanism of a direct signaling pathway from cytokine receptors to transcription factors (*Cell*, 70: 323, 1992; and *Cell*, 74: 1335, 1993), and roles of this pathway in cancer and in development. Individuals with background and experience in molecular biology, immunology or vertebrate developmental biology are welcome to apply. Candidate will be encouraged to apply for external fellowships; however, the funds for competitive salaries and benefits are secured. Successful candidate will join a very stimulating and interactive scientific community. Please submit curriculum vitae, copies of recent publications, and three letters of recommendation to: **Dr. Xin-Yuan Fu, Department of Pathology, Yale University School of Medicine, P.O. Box 208023, New Haven, CT 06520-8023. FAX: 203-785-7303.**

POSTDOCTORAL FELLOWSHIP in leukemia research in the laboratory of **Dr. George Atweh** at the Mount Sinai School of Medicine. Opportunities for collaboration with laboratories studying the molecular basis of leukemia. M.D. or Ph.D. required. Experience in molecular biology is preferred. Send curriculum vitae with names and telephone numbers of three references to: **Dr. George F. Atweh, Division of Hematology, Box 1079, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.**

POSTDOCTORAL POSITION available immediately for research on the cell biology of the growth of neuronal processes. Projects involve the use of video microscopy combined with biochemical and molecular biological techniques. Background in neurobiology and/or cell biology preferred. Send curriculum vitae, statement of research experience and interests, and the names of three references to: **Dr. Daniel J. Goldberg, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032. Equal Opportunity/Affirmative Action Employer.**

**ASSISTANT PROFESSOR, NEUROBIOLOGY
Columbia University**

The Departments of Pathology and of Anatomy and Cell Biology invite applications for two tenure-track positions in cellular and molecular neurobiology. The successful candidate will join existing groups of investigators in neurobiology in each department and over 30 investigators at the College of Physicians and Surgeons. Several predoctoral and postdoctoral training programs exist. Particular consideration will be given to applications with strengths in developmental neurobiology, in the areas of cell lineage and differentiation; cell signaling; transcription regulation; and mechanisms of axon guidance and synapse formation. Applicants must hold an M.D. or Ph.D. and be capable of establishing a strong independent research program. Please send curriculum vitae, statement of research interests, and names of three references to: **Dr. C. Mason, Neurobiology Search Committee, Department of Pathology, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.**

DIRECTOR CENTER FOR HUMAN GENETICS

The Division of the Biological Sciences of the University of Chicago is soliciting nominations and applications for the position of Director for the Center for Human Genetics, one of five biomedical research centers located in the Institute for Molecular Medicine, housed within the new Jules F. Knapp Medical Research Center. The other research centers are devoted to the study of molecular and cellular immunology, molecular cardiology, neurobiology and molecular oncology. The Center for Human Genetics is committed to recruiting a group of investigators interested in understanding basic questions on the role of genetics in human biological functions and disease states. The Center will have approximately 10,000 square feet of newly constructed research space which has been planned to house six investigators, including the Director. The Director will be responsible for the development of this program and for recruiting the five additional Center faculty members who will have primary academic appointments in an appropriate department. Funding is available for the establishment and initial support of this major new research program. The activities of the Center will complement ongoing programs in human genetics, population genetics and genetics of model systems at the University of Chicago. Please send nominations or applications (by September 1, 1994), accompanied by a current curriculum vitae, to:

Dr. Anthony P. Mahowald
Chair, Search Committee for
the Director of Human Genetics
The University of Chicago
920 E. 58th Street
Chicago, IL 60637



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研究員／研究補助員

哺乳動物の遺伝子操作、
遺伝子診断、
生殖細胞の顕微操作

に関する研究分野の担当を希望する方。

〒289-05、栃木県下都賀郡石橋町下石橋花林519
(株)ワイエスニューテクノロジー研究所

Tel. Japan (81) 285-52-2821
Fax. Japan (81) 285-52-2824

募集人員：研究員／主任研究員 3名。
研究補助員 2名。

研究期間：1994年10月から1年以上。

資格：日本の生活に順応できる方。
国籍は問いません。

応募書類：履歴書。学業成績ないしは研究業績
リスト。応募理由（A4サイズ1枚）。
推薦者2名とその連絡先。

書類送付先：所長あて郵送またはFAXで。

締切：8月20日。



GLAXO INSTITUTE FOR MOLECULAR BIOLOGY Geneva, Switzerland

Research at the Glaxo Institute in Geneva is aimed at discovering novel molecular mechanisms to provide the basis of new therapies for serious diseases. In particular, research is focused on the CNS, allergies and inflammatory conditions. We have an outstanding opportunity for a

POSTDOCTORAL MOLECULAR BIOLOGIST TO WORK ON CONTROLLED GENE EXPRESSION IN GENE THERAPY

The successful applicant will join a team studying the mechanisms of regulated gene expression as an approach to developing a system for controlling the expression of administered genes in vivo.

GIMB has a strong publication record, which the appointee will be expected to maintain. The presentation of results at scientific meetings is encouraged, as well as collaborative research with academic groups.

We offer an excellent compensation and benefits package and significant opportunities for career development. Geneva, situated in a very attractive part of Europe, has many advantages as a place to live. The Institute for Molecular Biology is part of the Glaxo group, one of the world's most successful healthcare companies which has an outstanding reputation for the quality of both its research and products.

If you are interested in this position, please send your curriculum vitae with a list of publications and the names of three referees to: **Rita Gloor, Personnel Manager, Glaxo Institute for Molecular Biology S.A., 14, chemin des Aulx, 1228 Plan-les-Ouates, Geneva, Switzerland.**

POSITIONS OPEN

POSTDOCTORAL POSITION. U.S. citizen or permanent resident required. Position available now, but planned arrival up to July 1995 is possible. Experience with Western blot and/or *in situ* hybridization essential. For microvascular project involving identification of endothelial proteins in brain microvessels after injury. Send curriculum vitae to: **W. Rosenblum, M.D., Neuropathology, Medical College of Virginia, Virginia Commonwealth University, Box 980017 MCV, Richmond, VA 23298-0017.** Minorities and persons with disabilities encouraged to apply.

POSTDOCTORAL FELLOWS RESEARCH ASSOCIATES GENE THERAPY

Three positions are available to study the molecular mechanisms of homologous recombination and gene targeting in human cell culture. Genes involved in human malignancy will be among the targets. Competence and experience in mammalian cell culture, transformation and cloning in eukaryotic expression vectors is preferred. Salary commensurate with experience. Send or FAX curriculum vitae and cover letter describing experience to: **Dr. Eric B. Kniec, Department of Pharmacology, Jefferson Cancer Center, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. FAX: 215-923-1098.** We are committed to a smoke-free environment. *Equal Opportunity Employer.*

POSTDOCTORAL/RESEARCH ASSOCIATE.

A postdoctoral position is available to study the pathogenesis of multiple myeloma and related B-cell lymphoproliferative diseases (especially AL amyloidosis). This information will be applied clinically toward the development of innovative therapeutic modalities involving immune regulation (e.g., vaccines, etc.), as well as the prevention and reversal of pathologic light-chain tissue deposits associated with these disorders. Send curriculum vitae and names and addresses of three references to: **Alan Solomon, M.D., Head, Human Immunology and Cancer Program, University of Tennessee Medical Center/Knoxville, 1924 Alcoa Highway, Knoxville, TN 37920. Telephone: 615-544-9165. FAX: 615-544-6865.**

University of Tennessee Medical Center/Knoxville is an Equal Opportunity/Affirmative Action/Title IX/Section 504/ADA Employer.

POSTDOCTORAL POSITION to study molecular systematics and evolutionary biology of a group of closely related malaria vectors. Experience with PCR, sequencing and phylogenetic analysis essential. Please send curriculum vitae, statement of research interests and names of three references to: **Dr. Jan Conn, Department of Zoology, University of Vermont, Marsh Life Science Building, Burlington, VT 05405-0086.** *The University of Vermont is an Equal Opportunity Employer.*

POSTDOCTORAL POSITION available immediately to study the molecular mechanisms mediating epithelial-stromal cell interactions in the normal and cancerous breast. Analysis of paracrine and autocrine growth regulation by growth factors and growth inhibitors and growth factor/inhibitor interactions with extracellular matrix molecules and ovarian hormones will be carried out, using both an animal model system and human breast cells. *In vivo* tissue recombinants and *in vitro* co-culture methods will form the basis for analyzing the molecular mechanisms responsible for stromal cell modulations of epithelial cell-growth behavior and steroid hormone responsiveness. Experience with cell culture, immunocytochemistry and molecular biology is required. Candidates should send curriculum vitae and two letters of recommendation to: **Professor S. Z. Haslam, Department of Physiology, Michigan State University, East Lansing, MI 48824; FAX: 517-355-5125.**

POSTDOCTORAL POSITION available for two years to study molecular biology and electrophysiology of cloned human cardiac potassium channels. Experience in molecular biology and/or patch clamp methods desirable. Opportunities to interact with a number of different investigators and groups. Please send curriculum vitae and names of two references to: **Dr. David Fedida, Department of Physiology, Queen's University, Kingston, Ontario, Canada K7L 3N6. Telephone: 613-545-2799; FAX: 613-545-6880.** *In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.*

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE position available immediately (to January 1995) to perform studies on the regulation of the enzymes responsible for the generation of peptide hormones and neuropeptides (*J. Biol. Chem.*, 268: 5615, 1993; *Proc. Natl. Acad. Sci.*, 91: 5784-5787, 1994). Position involves use of biochemical techniques (FPLC or recombinant enzymes and inhibitors), cell biological techniques, and/or molecular biology (site directed mutagenesis of enzymes). Prefer recent Ph.D. with experience in protein biochemistry. Experience with enzymes helpful but not required. Please send curriculum vitae and names and telephone numbers of three references to: **Dr. Iris Lindberg, Department of Biochemistry and Molecular Biology, Louisiana State University School of Medicine, 1901 Perdido Street, New Orleans, LA 70112.** *Louisiana State University Medical Center is an Equal Opportunity/Affirmative Action Employer.*

The College of Staten Island/CUNY POSTDOCTORAL RESEARCH ASSOCIATE

The College of Staten Island, a senior college of the City University of New York, is seeking a **POSTDOCTORAL RESEARCH ASSOCIATE** for the Neuroscience Laboratory. A successful candidate should have a Ph.D. in Biology, Biochemistry, or Neuroscience and extensive experience in transcription and enzyme assays, protein purification, biomolecular synthesis and extraction, and gel electrophoresis. Appointment period: September 1, 1994, to August 31, 1995, with a possibility of extension for a second year. Salary: \$28,000 plus benefits. Send letter of interest, curriculum vitae, and three letters of reference by August 22, 1994, to: **Dr. Martel Zeldin, Dean of Science and Technology, The College of Staten Island/City University of New York, 2800 Victory Boulevard, South Administration Building, Room 313, Staten Island, NY 10314.** *Equal Opportunity/Affirmative Action/ADA Employer.*

POSTDOCTORAL POSITION—University of California, San Francisco. Position now open for a candidate with expertise in the use of fluorescent probes. Studies will address pH, cation, and membrane potential regulation in neural tissue. Independent efforts and collaborations on related projects are encouraged. A background in neurobiology and/or ischemia research is preferred, but not required. Send résumé and references to: **Dr. Raymond Swanson, Neurology (127) VAMC, 4150 Clement Street, San Francisco, CA 94121.** *Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION available to study the molecular mechanisms involved in lung development. Candidates should have strong background in molecular biology. Send curriculum vitae and three letters of recommendation to: **Parviz Minoo, Ph.D., Department of Pediatrics, Los Angeles County and University of Southern California Medical Center, Women's and Children's Hospital, Room L-919, 1240 North Mission Road, Los Angeles, CA 90033.**

MOLECULAR BIOLOGIST/BIOCHEMIST. Will conduct postdoctoral research and a study on the biochemistry of baculovirus gene expression, virus maturation and assembly. Successful applicant will study and apply most aspects of recombinant nucleic acid and baculovirus expression vector techniques. For studies of protein structure pursuant to function, emphasis will also be on recombinant and expression vector technologies. Starting at \$25,000, negotiable commensurate with experience. Please send résumé and three references to: **Dr. Max Summers, Texas A&M University, Department of Entomology, College Station, Texas 77843-2475.** *Texas A&M University is an Affirmative Action/Equal Opportunity Employer.*

JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE

POSTDOCTORAL POSITIONS are available immediately to study mechanisms of cytoprotection mediated by heat shock proteins and gene regulation of gap junctional proteins. Candidates should have experience in molecular and/or cell biology. Competitive salary based on experience. Send curriculum vitae along with names and telephone numbers of three references to: **Antonio De Malo, Ph.D., Division of Pediatric Surgery, 600 North Wolfe Street, CMSC 7-125, Baltimore, MD 21287-3716. FAX: 410-550-5314. Email: ademaio@welchlink.welch.jhu.edu.**

POSITIONS OPEN

POSTDOCTORAL POSITION ONTARIO CANCER INSTITUTE UNIVERSITY OF TORONTO

A **POSTDOCTORAL POSITION** is available immediately in the areas of peptide and protein design with emphasis on the development of cellular and intracellular targeting agents. Candidates must possess a recent Ph.D. or M.D. with training and experience in cell or molecular biology.

Send curriculum vitae and a letter indicating your research interests to: **Dr. Jean Gariépy, Ontario Cancer Institute, Princess Margaret Hospital, 500 Sherbourne Street, Toronto, Ontario, Canada M4X 1K9.**

MOLECULAR BIOLOGISTS

TWO POSTDOCTORAL POSITIONS available immediately to explore the molecular regulation of differentiation in hematopoietic stem cells, cytokines and their receptors (*Endocrinology*, 133: 2334, 1993; *J. Clin. Invest.*, 89: 451, 1992; *PNAS*, 89: 7713, 1992; *Mol. Brain Res.*, September 1994); \$25,000 to \$30,000 per year plus fringe benefits. Send curriculum vitae, statement of research interests and experience and three recommendations to: **Dr. Keith Kelley, University of Illinois, 207 Plant and Animal Biotechnology Laboratory, 1201 West Gregory Drive, Urbana, IL 61801.**

RESEARCH TRAINING FOR DENTAL GRADUATES

Two (2) positions are available in an NIH-supported **ADVANCED POSTDOCTORAL RESEARCH** program at the University of Louisville School of Dentistry. Areas of research include Cell and Molecular Biology, Immunology, Endocrinology, Microbiology, and Biochemistry. Term of appointment, two to three years. Candidates should have a dental degree and post-graduate training or a demonstrated interest in research. Competitive salaries. Contact: **Ms. Linda Peace, 301 School of Dentistry, 501 South Preston Street, Louisville, KY 40292. Telephone: 502-852-7507; FAX: 502-852-7240.**

POSTDOCTORAL POSITION to study post-translational processing of proteins synthesized with the baculovirus expression vector system. The study will emphasize carbohydrate characterization of glycoproteins produced in several cell types under varying culture conditions. Candidates should have experience with post-translational modifications of proteins and/or expression vector systems. Send curriculum vitae and three references to: **Dr. H. Alan Wood, Boyce Thompson Institute, Tower Road, Ithaca, NY 14853.** *An Equal Opportunity/Affirmative Action Employer.*

POSTDOCTORAL POSITIONS Crystallography

TWO POSTDOCTORAL POSITIONS are available September 1, 1994, in protein crystallography to study plant pathogenic factors and elongation factor Tu complexes. Good crystals for most projects are in hand. Modern equipment and superb computing facilities are available. Experience in protein crystallography is essential. Send curriculum vitae and two reference letters to: **F. Jurnak, Department of Biochemistry, University of California, Riverside, CA 92507.**

POSTDOCTORAL POSITION available immediately in multidisciplinary group studying the molecular basis of DNA damage processing. Collegial, scientific atmosphere and great living conditions. Send résumé and three references to: **Dr. Susan Wallace, Professor and Chairperson, Department of Microbiology and Molecular Genetics, The Markey Center for Molecular Genetics, The University of Vermont, Burlington, VT 05405.** *The University of Vermont is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION is available immediately to study mechanisms underlying translational control in plants, including investigating regulatory loci present in cellular and viral mRNAs. A Ph.D. and experience in the area of molecular biology and/or protein purification is required. Competitive salary. Send curriculum vitae and three reference letters to: **Dr. Daniel R. Gallie, Department of Biochemistry, University of California, Riverside, CA 92521-0129; FAX: 909-787-3590.**

Postdoctoral Fellow

The Reproductive/Endocrine Research Department of The R. W. Johnson Pharmaceutical Research Institute in Raritan, New Jersey seeks a highly-motivated, industrious and bright scientist with a Ph.D. in Cell Biology/Endocrinology and a solid background in tissue culture, immunochemistry and molecular biology.

Although recent graduates are welcome to apply, those candidates with approximately one year of postdoctoral training will be favored. The successful candidate will join our team researching new chemical entities and perform in vitro and in vivo bioassays to evaluate drug effects on different target tissues.

Besides providing outstanding library facilities, the company provides excellent compensation and benefits. The laboratories are located in a beautiful part of New Jersey, near Princeton and half way between New York City and Philadelphia. Interested persons should send their c.v., list of publications and three references to: Dept. 43, Johnson & Johnson Recruiting, Employment Management Center, P.O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the workplace.

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Research M.D. with expertise in
molecular biology.

PA No. 6

NATIONAL INSTITUTES OF HEALTH

National Institutes of Health. Hepatitis Viruses Section, Laboratory of Infectious Diseases, National Institute of Allergy and Infectious Diseases. Molecular biologist with clinical training in diseases of the liver. Must have extensive experience in application of RT-PCR technique for genome amplification of RNA-containing viruses present in very low titer in biological and clinical samples, sequencing of DNA, computer analysis of sequence data and analysis of results with special emphasis on their biological and clinical significance. Preference given to research on hepatitis C virus. Must have experience in laboratory and clinical research on hepatitis viruses including animal model (primate) systems for the biological characterization of these viruses. Applicant will be expected to apply basic research and clinical knowledge to product development and to interact with clinical groups, academic laboratories and pharmaceutical companies through collaborative research and development agreements. Patent experience essential.

Salary range: \$40,000-\$50,000 per year.

"NIH is an Equal Opportunity Employer." United States citizenship required. Applications must be received not later than 4 weeks after the publication date of this advertisement. Position targeted for EEO recruitment efforts.

Qualified and interested candidates should send curriculum vitae, bibliography and names and addresses of 3 (three) references to:

**NIAID Personnel Office
Bldg. 31, Room 7A-20
900 Rockville Pike
Bethesda, MD 20892**

SENIOR RESEARCH ASSOCIATE

Adhesion Prevention

Johnson & Johnson, the world's largest health care corporation and leader in wound healing research and development, is seeking an experienced, flexible individual to develop/market products for hemostasis and adhesion prevention for our Surgical Specialties Business Unit. Responsibilities include overseeing/participating in ongoing clinical and preclinical product development and projects in the US and internationally.

Qualified candidate must possess an advanced degree with at least 3-5 years relevant experience, a working knowledge of GCPs and strong communication/interpersonal skills. Position requires the ability to travel and a demonstrated background in all areas of product development including regulatory submissions and clinical/preclinical research studies in some of the following areas: wound healing, adhesion and prevention hemostasis. Experience in conducting and designing in vivo studies, and pilot scale manufacturing is preferred.

Please forward resume by mail to K.K. McCoy, Johnson & Johnson Medical, 2500 Arbrook, Arlington, TX 76004.

Johnson & Johnson
MEDICAL INC.



**Temple
University
School of Medicine**

Research Assistant Professor Hematology/Oncology

The Department of Pediatrics of Temple University School of Medicine is seeking Ph.D. applicants for the position of Research Assistant Professor in the division of Hematology/Oncology, located at St. Christopher's Hospital for Children. A background in molecular biology and experience in cell adhesion biology is mandatory. Individual selected will coordinate cell-cell adhesion research ongoing in the division in conjunction with division chief, besides pursuing his/her own interests. Appropriate support will be provided. Please address inquiries to: **Marie Stuart, MD, Professor of Pediatrics; Chief, Section of Hematology/Oncology, St. Christopher's Hospital for Children, Erie Ave. at Front St., Phila., PA 19134-1095.**

Temple University School of Medicine is an Affirmative Action/Equal Opportunity Employer and strongly encourages applications from women and minorities.

UIC The University of Illinois
at Chicago

DEPARTMENT HEAD DEPARTMENT OF BIOLOGICAL SCIENCES

Applications and nominations are being sought for the position of Head of the Department of Biological Sciences at the University of Illinois at Chicago. The Head is the chief administrative officer of the Department, with overall responsibility for instruction, budget, promotion, and faculty and staff recruitment. The Head is expected to provide strong leadership for the department in our continued development of research, teaching, and public service programs.

The Department of Biological Sciences consists of 37 faculty, over 120 graduate students and approximately 800 undergraduate majors. Major subdivisions of the Department include cell and developmental biology, ecology and evolution, molecular biology, neurobiology and plant biology. Located in the heart of Chicago, UIC enrolls 16,000 undergraduate, 5,000 graduate, and 3,000 professional students. Biological Sciences is a particularly well funded department within UIC's Research I environment.

The successful candidate will have an earned doctorate and be eligible for appointment at the rank of full professor. A strong record in research and university teaching, a demonstrated commitment to equality of opportunity, and substantial leadership and organizational skills are required. Women and minority candidates are especially encouraged to apply. The desired appointment date is August 21, 1995.

Applications should be received by September 15, 1994 to receive full consideration, although the search will proceed until the position is filled. Materials, including a full curriculum vitae and names and addresses of four references, should be directed to:

**Professor Brian Nichols
Biological Sciences Search Committee
c/o College of Liberal Arts and Sciences, m/c 228,
The University of Illinois at Chicago
601 South Morgan Street
Chicago, Illinois 60607-7104
UIC is an Affirmative Action/
Equal Opportunity Employer.**

POSITIONS OPEN

CHEMISTRY DEPARTMENT, Princeton University invites applications for **POSTDOCTORAL POSITIONS** in physical, organic, inorganic, and biochemistry. Send curriculum vitae directly to faculty of interest or write: **Department Manager, Chemistry Department, Princeton University, Princeton, NJ 08544.** Princeton is an Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATES IN SPACE BIOLOGY

The current Space Shuttle Program has allowed the development of space biology science that offers exceptional opportunities for research. NASA is offering **RESEARCH ASSOCIATE AWARDS** at the postdoctoral level for scientists to conduct Space Biology Research in a university laboratory or nongovernmental research institute of your choice that can provide the necessary facilities and research environment. Projects should be in the gravitational and space biology discipline. The awards are \$20,000 for the first year, and \$22,000 for the second year if the renewal proposal is approved. Funding will begin July 1 to October 1, 1995. U.S. citizens and permanent resident aliens with Ph.D., M.D., D.V.M., D.M.D. or equivalent degrees are eligible to apply. **PROPOSALS ARE DUE FEBRUARY 15, 1995.** For information and application booklet, contact: **Dr. Gerald Sonnenfeld, Department of General Surgery Research, Carolinas Medical Center, P.O. Box 32861, Charlotte, NC 28232.** Telephone: 704-355-2639. FAX: 704-355-7203.

RESEARCH ASSOCIATE in Biochemistry and Molecular Biology at a state university in Northwest Ohio. Conduct independent research in the area of transcriptional mechanisms of expression of transforming growth factors and their effects of the growth differentiation and metastasis of colon cancer cells. Design research projects, perform experiments, analyze results and write scientific papers. Train graduate students and technicians, participate in laboratory and departmental meetings and activities. Assist in writing grants. One year experience in research of cancer in animals and their application as model system of study of human cancer. At least one research paper and publication of that work in the form of a dissertation or scientific paper in a peer-reviewed journal. Experience may be gained before, during, or after Ph.D. Forty hours per week, 8 a.m. to 5 p.m. Monday through Friday; \$26,000 per year. Ph.D. in Molecular Biology or Animal Biotechnology required. Must have proof of legal authority to work indefinitely in the United States. Send résumé in duplicate (no calls) to: **K. Shockey, Job Number 00180, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.** Equal Opportunity/Affirmative Action Employer. Male/Female/Disabled/Veteran.

RESEARCH ASSOCIATE for northeast Ohio medical care center to design and conduct clinical research into the incidence of post-transfusion hepatitis B and C. Study the effectiveness of first- and second-generation assays for detection of anti-HCV antibodies in blood donors. Statistically determine the occupational risk for hepatitis B and C for healthcare workers. Must have M.D. or equivalent as determined by accredited credentialing agency. Must also have one year of experience in the job described, or one year of experience as a medical intern. Medical internship must have included at least one research project in liver research. Experience must also include at least four months of analysis and interpretation of blood tests, liver biopsies, and evaluation of patient records showing abnormal liver function. 40 hours per week, 9 a.m. to 5 p.m., Monday through Friday, at \$28,853 per year. Must have proof of legal authority to work indefinitely in the United States. Send résumé in duplicate (no calls) to: **T. Do, Job Number 00646, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

Pharmaceutical Discovery Corporation

Pharmaceutical Discovery Corporation is seeking highly motivated individuals for the following position: **PHARMACOLOGIST, Ph.D./MS** (zero to three years). Background in receptor binding using isotopic and nonisotopic techniques for the development of novel fluorescence-based assays. Technical and product support experience is desirable. **Résumé: Human Resources-Research, Pharmaceutical Discovery Corporation, 33 West Main Street, Elmsford, NY 10523.**

POSITIONS OPEN

RESEARCH ASSOCIATE. Ph.D. with expertise in cellular and molecular biology techniques and a background in cellular signal transduction research. The candidate will be responsible for completing studies in the area of leukemia cell differentiation. Should have proven expertise in cell culture techniques, Western/Northern blot analysis, DNA manipulation and preparation. Send curriculum vitae to: **Dr. Kirk Ways, East Carolina University School of Medicine, Department of Medicine, Greenville, NC 27858.** An Equal Opportunity/Affirmative Action Employer. Federal law requires proper documentation of identity and employability at the time of employment.

ASSOCIATE/SENIOR STAFF SCIENTIST OF RADIATION ONCOLOGY

The Department of Radiation Oncology invites applications for the position of **ASSOCIATE/SENIOR STAFF SCIENTIST.** The successful applicant will work jointly with existing NIH-funded programs in Radiation Oncology and Molecular Biology that are developing gene therapy-based methods to treat cancer. The successful applicant will have the opportunity to develop his/her own research program. Qualifications include previous experience in molecular biology, the ability to work in a team, and the potential to develop an independent, externally funded research program in cancer biology and therapeutics. Applicants should submit curriculum vitae and a brief description (limit to 500 words) of research interests, and ask three references to send letters of recommendation. These materials should be directed by November 1, 1994, to: **Svend O. Freytag, Ph.D., Department of Radiation Oncology, Henry Ford Health Science Center, M-2, 2799 West Grand Boulevard, Detroit, MI 48202.**

The Division of Molecular Medicine and Genetics in the Department of Internal Medicine, University of Michigan Medical Center, is seeking additional faculty with research programs in the scientific area of Molecular Medicine and Genetics. We are particularly interested in **ACADEMIC PHYSICIAN SCIENTISTS** who are board-certified or board-eligible in Internal Medicine and Clinical Genetics. However, applications from outstanding basic scientists are also welcome. Interested applicants should send curriculum vitae, statement of interests, and a list of potential references to: **Davis Ginsburg, M.D., Division of Molecular Medicine and Genetics, Department of Internal Medicine, University of Michigan Medical Center, 4520 Medical Science Research Building I, Box 0650, Ann Arbor, MI 48109-0650.** The University of Michigan is a non-discriminatory, Affirmative Action Employer.

DEMI Vehicle Systems, Inc., a newly formed, start-up company, has licensed an exciting and very promising battery technology which is ideally suited as a power source for electric vehicles. A car powered with this battery has gone 250 miles on a single charge. The company has one or more financially rewarding positions open for **SCIENTISTS** to conduct research and development with a goal of further improving battery performance. Applicants must have working knowledge of the fundamental electrochemistry of batteries. A Ph.D. is required. Send curriculum vitae, a brief description of research accomplishments with reprints of publications, and names of three references to: **Vice President, Human Resources, DEMI Vehicle Systems, Inc., 34157 Autry, Livonia, Michigan 48150.**

SYSTEMATIC BOTANIST—The California Academy of Sciences invites applications for an **ASSISTANT CURATOR OF BOTANY.** Applications are solicited from individuals with primary interest in and commitment to active, collection-oriented research in higher plant systematics and the curation, operation, and development of a major herbarium. Candidates must have a Ph.D. and an active research program with demonstrated interest and competence in a particular group of vascular plants, and must be prepared to participate in a variety of curatorial, administrative, and public educational activities at the Academy. Applicants should forward curriculum vitae, description of research goals, and the names, addresses and telephone numbers of three references to: **Human Resources Number SB, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118-4599.** Deadline for application is 15 October 1994. Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT MARINE RESEARCH SCIENTISTS (Two). **MARINE ZOOPLANKTON ECOLOGIST AND PHYSIOLOGIST** (log number 091157) for studies of zooplankton feeding, growth and secondary production. Experience in laboratory culturing and field experimental studies of zooplankton required.

MARINE ZOOPLANKTON ECOLOGIST (log number 091156) to manage the US-GLOBEC Georges Bank zooplankton technical group, and to take primary responsibility in the initial analysis of zooplankton survey population data as part of a multi-investigator study of zooplankton population dynamics. Knowledge of MOCNESS net sampling systems and marine zooplankton identification, and experience in analysis of zooplankton distribution and abundance required.

For both positions a Ph.D. in oceanography and postdoctoral experience are required. Must be able to go to sea. Must be familiar with computers and statistical data analysis. Must have good technical writing skills. These positions are limited to one year, with extension contingent on funding. Submit a letter of application and résumé by August 15, 1994, to: **E. Durbin, Search Coordinator (log numbers 091156, 091157), University of Rhode Island, P.O. Box G, Kingston, RI 02881.** The University of Rhode Island is an Affirmative Action/Equal Employment Opportunity Employer and is committed to increasing the diversity of its faculty, staff and students. People from underrepresented groups are encouraged to apply.

ASSISTANT EXTENSION PLANT PATHOLOGIST ENVIRONMENTAL HORTICULTURE DEPARTMENT OF PLANT PATHOLOGY UNIVERSITY OF CALIFORNIA, RIVERSIDE

Applications are invited for a **COOPERATIVE EXTENSION AGRONOMIST** (plant pathology specialist) position at the Assistant level, available January 1, 1995. This is a new 100% Cooperative Extension position with an 11-month appointment at the University of California Riverside (UCR) campus, which will add to our existing two Cooperative Extension and 15 research faculty. Appointee is to establish an innovative applied research and extension program to support the large and vigorous environmental horticulture industry in southern California. Strong interactions are anticipated with: faculty at UCR with research interests in environmental horticulture (ornamentals, turfgrass, floriculture); county advisors; and researchers at the proposed Institute for Desert Agriculture. Ph.D. in plant pathology or related field required, with training and experience in environmental horticulture desired. Applicants should send curriculum vitae, statement of research and extension interests, and reprints of relevant publications, and have three letters of reference sent to: **Dr. D. A. Cooksey, Search Committee Chair, Department of Plant Pathology, University of California, Riverside, CA 92521.** The application deadline is **October 1, 1994.** An Equal Opportunity/Affirmative Action Employer.

Princeton Instruments, Inc., a leading manufacturer of scientific cameras, is seeking a **SCIENTIST** who will spearhead our rapid advancement in biological and microscope imaging. The successful candidate will have a Ph.D. in a biological study, with extensive experience in microscopy and many diversified experimental techniques such as fluorescence or ratio imaging. This self-motivated individual will serve as a liaison to the biological community, attending conferences, doing collaborative research, and working closely with our sales force to develop relationships with business partners and customers.

FAX curriculum vitae to: **Ishai Nir, Princeton Instruments, Inc., 3660 Quakerbridge Road, Trenton, NJ 08619.** FAX: 609-587-1970. Princeton Instruments is an Equal Opportunity Employer.

POSTDOCTORAL POSITION to Study Molecular Biology of Anticancer Agents using shuttle vectors. We have evidence for a novel DNA repair pathway for interstrand crosslinks that operates in both bacterial and human cells and has potential implications for the mechanism of action of certain anticancer drugs. Molecular biological, genetic and tissue culture techniques. Available immediately. Send curriculum vitae and reference letters to: **Edward L. Loechler, Department of Biology, Boston University, 5 Cummings Street, Boston, MA 02215.** An Equal Opportunity Employer.

Department of Health and Human Services

Public Health Service
National Institutes of Health
National Institute of Dental Research

**Position: Director, National Institute of
Dental Research Location: Bethesda, Maryland**

The National Institute of Dental Research (NIDR) invites nominations and applications for the position of Director, NIDR. This is a Civil Service position in the Senior Executive Service with a salary range of \$96,830 to \$120,594 per annum, which includes a 4.23% locality allowance authorized for 1994. Physicians and dentists may be eligible for a Physicians Comparability Allowance up to \$20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal applicant selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The National Institute of Dental Research conducts, fosters, and supports research and research training on the causes, prevention, diagnosis and treatment of oral, dental, and craniofacial diseases and disorders. In its intramural laboratories and in the extramural scientific community, the institute supports basic and clinical investigations and training of biomedical scientists with particular interest in the oral health sciences.

Applicants must meet the minimum educational requirements (or possess equivalent combination of experience and training) for the Dental Officer series, GS-680; the Medical Officer series, GS-602; the General Health Science series, GS-601; or an allied scientific discipline, as defined by the U.S. Office of Personnel Management Qualification Standards Handbook for General Schedule Positions, which is available in Federal Personnel Offices and Federal Job Information Centers.

Further information about the position may be obtained by contacting Ms. Carol M. Beasley, Personnel Officer, NIDR, at (301) 496-6971. An application for Federal Employment, SF-171, accompanied by a current curriculum vitae and bibliography, should be submitted to Ms. Beasley, National Institutes of Health, 9000 Rockville Pike, Building 31, Room 2C-23, Bethesda, MD 20892.

APPLICATIONS MUST BE RECEIVED BY October 17, 1994.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, GENDER, NATIONAL ORIGIN, POLITICAL AFFILIATION, MARITAL STATUS, SEXUAL ORIENTATION, DISABILITY, AGE, OR UNION MEMBERSHIP.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

Intestinal Epithelial Biology Program

At Amgen, you'll discover a research environment that emphasizes collaboration, intellectual honesty, scientific integrity, and a supportive culture. This unique approach has helped us grow into a global biotechnology leader in just thirteen years.

Amgen has established a research program to investigate the factors controlling the growth and differentiation of intestinal epithelium. The program incorporates the methodologies of a broad range of disciplines including molecular, cellular and developmental biology, as well as protein chemistry. The ultimate goal is to develop useful therapeutics. The following openings now exist at several different levels for exceptional individuals.

RESEARCH SCIENTIST

The qualified individual should have a Ph.D. or equivalent, at least 2-4 years' postdoctoral training, an excellent publication record and direct experience in intestinal epithelial cell biology or colon tumor biology. (Job Code: OA-SC-AT-001)

POSTDOCTORAL FELLOWS

Positions exist for Postdoctoral Fellows with a recent Ph.D. and a strong background in molecular, cellular or developmental biology. Particular consideration will be given to individuals with prior expertise in the regulation of intestinal epithelial cell growth and differentiation. The qualified applicant will take advantage of Amgen's expertise in the areas of receptor biology, signal transduction, and transgenic technology. (Job Code: OA-SC-BB-003)

RESEARCH ASSOCIATES

Openings exist for several Research Associates. The qualified applicants should have a BS, at least 2 years of research experience and a solid background in molecular and cellular biology. Particular technical expertise is sought in the areas of tissue culture, the biology of growth factors and their receptors, or the characterization of gene expression during mouse development. (Job Code: OA-SC-FC-001)

At Amgen, you'll find our approach to scientific research as rewarding as it is effective. We offer a highly competitive compensation and benefits package that includes a retirement and savings plan, an on-site fitness center, and three weeks' vacation. Please FAX/mail your resume/c.v. to: FAX: (805) 447-1985, Amgen Inc., Staffing, Job Code (see above), Amgen Center, Thousand Oaks, CA 91320-1789. For additional information regarding Amgen's recruitment process, please call (805) 447-4150. Principals only, please. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.

AMGEN®
Discover a unique approach.



Chair Department of Neurology

The University of Pennsylvania School of Medicine seeks outstanding candidates for the position of Professor and Chair of the Department of Neurology.

The successful applicant will be of international stature in his/her area of the field and will provide academic leadership in the broadly defined area of neurology. Applicants should have demonstrated qualifications in the administration of a large program in education, research, and patient care.

The University is an equal opportunity, affirmative action employer. Women, minority, and international candidates are encouraged to apply. Letters of interest, CV, and names of references should be sent to:



Albert J. Stunkard, M.D.
Chair, Neurology Search Committee
Professor, Department of Psychiatry
University of Pennsylvania
School of Medicine
3600 Market Street, Suite 734
Philadelphia, PA 19104-2648

of ELECTROPHYSIOLOGY

The Free University of Brussels (ULB) wishes to make a senior appointment with a view to developing research activities in cellular electrophysiology at the Faculty of Medicine. This is a permanent position at associate professor or full professor level.

The appointee will be expected to develop a personal research programme in cellular electrophysiology on the basis of his/her experience to date as attested by an excellent record of scientific contributions. Since the successful candidate will also collaborate with existing research units within the School of Medicine, an ability to master the practical aspects of the main techniques of modern electrophysiology is essential. (This includes patch clamp methodology and the use of reconstituted ion channels in liposomes or other artificial membranes.) Teaching will be at postgraduate level, possibly organised in collaboration with other European universities.

Further information is available from: M. le Doyen de la Faculté de Médecine, route de Lennik 808, (C.P. 610), 1070 Bruxelles, Belgium. Applications (in English) should include a curriculum vitae, a list of publications, a summary of academic and teaching experience and a list of references. They should be sent to: Madame le Recteur, avenue F.D. Roosevelt 50, 1050 Bruxelles, Belgium, to arrive no later than October 5th, 1994.

ULB
UNIVERSITE
LIBRE DE
BRUXELLES

North American Vaccine, Inc., a rapidly expanding company dedicated to the research, development and manufacturing of vaccines, has an immediate opening within our Research Group.

Immunologist
Postdoctoral / Scientist / Senior Scientist

Candidates should possess a Ph.D. in Immunology or a related field. Knowledge of cellular immunology including T-cell proliferation and cytokine assays, monoclonal antibody production, animal models and antibody isotyping are all required. Excellent verbal and written communications skills are also required for all positions.

We are located in Beltsville, Maryland 20 minutes north of Washington DC and offer competitive salaries and benefits.

Interested individuals should send a curriculum vitae indicating position #830-D to: Human Resources Manager

North American Vaccine, Inc.
c/o AMVAX, Inc.
12103 Indian Creek Court
Beltsville, MD 20705-4223

Fax: (301) 470-6198

EOE/AA

Request for Proposals ASPS 95-0047 Exxon Valdez Trustee Council Scientific Support

The Department of Natural Resources Office of the Commissioner, Exxon Valdez Oil Spill Project Office, is soliciting detailed proposals for Scientific Support for the Exxon Valdez Oil Spill Trustee Council and its Executive Director. Offerors must have a project manager with at least a Ph.D. level of training in a scientific discipline related to the restoration of resources and services injured by the Exxon Valdez Oil Spill and ten years of increasingly responsible experience, including 5 years of research experience.

The resulting contract is proposed to be one year with five one year renewal options subject to Trustee Council approval and funding. It is expected that this contract will not exceed \$400,000 per year depending on the nature and scope of projects.

One (1) free RFP, with associated contract documents may be picked up or requested from Carol Fries, Natural Resources Manager, at the Department of Natural Resources, Commissioner's Office, 3601 C Street, Suite 1210, PO Box 107005, Anchorage, AK 99510-7005 Telephone: 907-762-2483. The State assumes no liability for incorrect addresses or delivery of RFP packages by public or private carriers.

Proposals must be received by the issuing office no later than 5:00 p.m. August 31, 1994.

The State of Alaska Complies with Title II of the Americans With Disabilities Act of 1990. Individuals with disabilities who may need auxiliary aids, services, and/or special modifications to participate in this procurement should contact Carol Fries at the number listed, or TDD 907-762-2259, no later than August 10 to make any necessary arrangements.

Director Institute for Advanced Studies in Biological Process Technology University of Minnesota

The University of Minnesota seeks a Director for the Institute for Advanced Studies in Biological Process Technology (BPTI). This interdisciplinary research center consists of faculty members from the College of Biological Sciences, The College of Agriculture, The Institute of Technology and the Medical School, and includes a fermentation pilot facility to carry out a wide range of bioprocess scale-up research. The Director establishes the mission and vision of the Institute, manages the budget and interacts with the biotechnology industry as part of the University's outreach mission. The Institute reports to the Dean of the College of Biological Sciences as lead Dean. Policy decisions are made by the governing board consisting of the Vice President for Arts, Science and Engineering, the Vice President for Research, and Deans of the Colleges of Biological Sciences, Institute of Technology, Agriculture and the Medical School. The ideal candidate for Director will have a distinguished professional record with substantial experience in research or research management. The Director should be experienced in working at the interface between biology and engineering and capable of stimulating collaboration and interaction across this spectrum of fields. Appointment will be at the full professor level. Send applications with resume and a list of at least three references by October 15, 1994 to: Professor Matthew Tirrell, Chair, BPTI Search Committee, Department of Chemical Engineering and Materials Science, University of Minnesota, 421 Washington Avenue, SE, Minneapolis, MN 55455.

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

THE CANCER CENTER AT MICHIGAN STATE UNIVERSITY OFFERS TWOTENURE-TRACK POSITIONS. Recently awarded a cancer center planning grant from the National Cancer Institute, the Cancer Center at Michigan State University is recruiting faculty to expand its cancer research programs. Applicants have an opportunity to join an exciting new cancer center in a land-grant university that is committed to diversity and scholarly excellence. Michigan State University has made major commitments to the Cancer Center, providing faculty positions, developmental funds, and administrative funds. Plans are underway for shared resources, including building a transgenic mouse facility, and for shared space for the basic science program of the Cancer Center. Both positions are full-time, tenure-track appointments at the Assistant Professor/Associate Professor level and are available January 1, 1995.

Outstanding applicants are sought who have a Ph.D. degree or equivalent, post-doctoral research experience, and a record of excellence in research. A strong commitment to undergraduate and graduate education is essential. Dedication to interdisciplinary collaboration in cancer research is critical. Salary will be commensurate with the qualifications and experience of the candidate.

The Cancer Center at Michigan State University currently has research programs in breast cancer and carcinogenesis, with a core of eight investigators in each area. With these two faculty positions we seek to expand both programs and to attract individuals with additional areas of strength to active research groups.

The successful applicants are expected to establish strong, extramurally funded research program directed at identifying the genetic, cellular and/or molecular mechanisms underlying neoplastic transformation, signal transduction and hormone- or growth-factor regulated growth control, metastasis, or chemoprevention. It is expected that the successful candidates will interact with and develop collaborations with other members of the Cancer Center faculty. One position will be in the breast cancer program, while the other position can be focused upon any organ system.

A competitive package of start-up funds will be provided. The academic appointment for these positions will be in a basic science department, such as Biochemistry, Food Science and Human Nutrition, Microbiology, Pathology, Pharmacology/Toxicology, or Physiology, depending upon the research interests of the candidate. For interested candidates, clinical appointments are available.

Applicants should send curriculum vitae, complete list of publications and external research support, a description of research interests, relevant reprints and pre-prints, and the names of three references by October 15, 1994 to:

G. Marie Swanson, Ph.D., M.P.H., Director
Cancer Center at Michigan State University
A-128 East Fee Hall
East Lansing, MI 48824

These positions will remain open until filled.

Michigan State University is an affirmative action/equal opportunity institution. Women and minorities are encouraged to apply.

CHIEF, CLINICAL PHARMACOLOGY BRANCH NATIONAL CANCER INSTITUTE

The Clinical Oncology Program, National Cancer Institute (NCI), National Institutes of Health (NIH), Public Health Service, is seeking applications for the position of Chief, Clinical Pharmacology Branch, at the Clinical Center in Bethesda, Maryland. The Branch is an integrated clinical and laboratory program in cancer medicine. The laboratories, consisting of 5000 square feet of space, support four senior research investigators. In addition, the Branch has access to NCI's inpatient wards and outpatient clinics at the NIH Clinical Center for translation clinical research in cancer medicine. This Branch has been a leader in the development of new agents and new approaches for cancer treatment. The Clinical Pharmacology Branch is also an integral part of the NCI training programs in both medical and radiation oncology.

We are seeking a senior clinical scientist who is at the forefront of research in the molecular and cellular biology of cancer. U.S. citizenship is required. Salary range is \$71,049-\$91,029. Payment of travel and transportation expenses will be considered on an individual basis. Exceptional recruiting difficulty may result in payment of a recruitment or relocation bonus. Application for Federal Employment (SF-171) must be received or postmarked by August 29, 1994. For application information, please contact Patrick Miller, Personnel Management Specialist, NCI, on (301) 496-1771.

NIH is an Equal Opportunity Employer.

SCIENTIFIC STAFF POSITIONS IN MACROMOLECULAR CRYSTALLOGRAPHY

The Oklahoma Medical Research Foundation invites applications for two openings in Macromolecular Crystallography. The Foundation is a private research institution located in the Oklahoma Health Center, Oklahoma City, OK. The Foundation has a new Protein Crystallography Laboratory currently studying the structure of several biomedically important proteins. The biology of these projects are supported by strong basic research programs in Cardiovascular Biology, Molecular and Cell Biology, Immunobiology, Free Radical Biology, Protein Studies, and others in the Foundation.

Scientific Staff - The applicant should have Ph.D. and postdoctoral training in macromolecular crystallography. Both independent and collaborative projects exist. Startup funds are available. Academic rank and salary will be commensurate with experience and qualifications. Applicants are asked to send a resume three letters of reference and a brief statement of research interests.

Research Associate - Applicants should have a Ph.D. and preferably postdoctoral experience in protein crystallography. Opportunities to work in areas of rational drug design program in the anti-viral therapy and infectious candidamycoses exist. Several crystals that diffract to high resolution are available for immediate study. Applicants are asked to send a resume, and two letters of reference.

Send Applications for either position to Drs. Jordan Tang or Stephen Foundling, Oklahoma Medical Research Foundation, 825 N.E. 13th Street, Oklahoma City, OK 73104. Telephone (405) 271-7291 or FAX (405) 271-7249. Internet address: Jordan-Tang@OMRF.UOKHSC.EDU. Applications completed by August, 15th will be assured of receiving full consideration. The OMRF is an Equal Opportunity employer.

BIOTECHNICAL/PHARMACEUTICAL JOB FAIR

Research Triangle Park, N.C.

Friday August, 19 Saturday August, 20

9:00 a.m.—1:30 p.m. 9:00 a.m.—1:30 p.m.

3:00 p.m.—6:00 p.m.

Interviewing Companies will include—

- ◆ Quintiles ◆ Besselaar
- ◆ Pharmaceutical Product Development
- ◆ Sugen ◆ Embrex
- ◆ Food & Drug Administration
- ◆ Biometric Research Institute

CAREER CONNECTION, the nation's leader in industry-specific Job Fairs, provides a unique forum in which Biotechnical employers interview, in private suites, experienced candidates with diversified levels of skill in Biotechnical and Pharmaceutical Research & Development, Manufacturing, QA/QC, Validation, Clinical Research, Regulatory Affairs, and many other positions in biology and chemistry. Admission is free. Candidates should bring extra resume copies and please dress in business attire. For information please call: CAREER CONNECTION, Dept. SM-894, P.O. Box 7451, Thousand Oaks, CA 91359 (805) 374-8777 FAX (805) 494-1870

Register Now For Coming Events

La Jolla, California September 23 & 24
Boston, Massachusetts September 30 & October 1

23 September 1994

SCIENCE

Annual *Careers* Issue

On 23 September 1994 SCIENCE will present its annual *Careers* issue. Last year's *Careers* issue highlighted over 65 pages of career opportunities for scientists at all levels. The 1994 issue will once again rank as one of the top scientific career planning resources.

SCIENCE *Careers* '94 presents a "how to" guide for scientific success in the 1990's. From early career advice on securing an entry level job to navigating the stormy seas of mid-career challenges, the SCIENCE *Careers* issue covers important topics that scientists at every level will need for career success.

When you advertise you will receive:

- **Bonus Distribution**

Copies of the 23 September issue will be distributed to over 2,000 attendees at each of the Biotechnology/Pharmaceutical Job Fairs in La Jolla, CA on September 23-24, and in Cambridge, MA on September 30 - October 1.

- **Advertisers' Index**

Full page advertisers will be listed separately on an index affixed to the covers of the issues distributed at the job fairs.

- **Harvey Readership Study**

Full page advertisers will benefit from a Harvey Readership Study - a terrific way to find out what SCIENCE readers are thinking about your advertising message.

- **Maximum Exposure**

Full page advertisers receive preferred placement in the career related editorial section. Special teaser advertisements in the regular recruitment section in the back of the magazine will direct active job seekers to turn to the full page advertisements in the *Careers* section.

Advertising Deadline: 6 September 1994

To advertise call Janis Crowley in the U.S. at (212) 496-7704 or fax to (202) 682-0816.
In Europe, call (44) 0223 302067 or fax to (44) 0223 302068.

DIRECTOR, HEMOSTASIS RESEARCH & DEVELOPMENT



BUILD YOUR CAREER ON THE STRENGTH OF OUR NEW ALLIANCE

Ortho Diagnostic Systems, a Johnson & Johnson company, has established itself as an innovator in the field of hemostasis. Now, with our recent alliance with Medical Laboratory Automation, Inc. (MLA), a leader in automated laboratory instrumentation, we are looking forward to an enhanced ability to provide our customers with superior products and services. With this new alliance comes new opportunities for dynamic management professionals who are ready to position their careers on the leading edge of this exciting industry.

Reporting to the General Manager of the Hemostasis unit, you'll manage a team of hemostasis scientists as they develop new products and new applications for existing products. You'll interact with marketing and technology to ensure that customer requirements are met, and oversee the planning and administration of all research efforts.

We require a Ph.D. in Biochemistry or Chemistry with an emphasis on coagulation and at least 10 years industrial experience in diagnostics. A solid background in hemostasis and protein chemistry, along with experience managing an R&D department are needed. The team leader we seek must also have strong computer, communication, presentation and problem-solving skills.

In addition to the strong foundation and dynamic challenges promised by our new alliance with MLA, we offer a team-oriented work environment, competitive salary and the full package of Johnson & Johnson benefits, including dental plan, tuition reimbursement and our on-site LIVE FOR LIFE Wellness Center. Please forward your resume and salary requirements to: Human Resources Dept. CP, Ortho Diagnostic Systems Inc., 1001 US Hwy 202, P.O. Box 350, Raritan, NJ 08869-0606. We are an Affirmative Action/Equal Opportunity Employer M/F/D/V.



Ortho Diagnostic Systems Inc.
a Johnson & Johnson company



Medical Laboratory Automation

Environmental Positions Entrix, Inc.

Entrix, Inc. is a multidisciplinary environmental consulting firm with principal offices in San Francisco, Sacramento, Glendale (CA), Houston, Dallas, and Wilmington (DE). We are committed to high-quality consulting services and to maintaining a work environment that encourages professional development and achievement. ENTRIX has immediate openings in a number of technical and project management areas. We are seeking creative, industrious, self-motivated and technically proficient team players to fill the following positions:

Senior Consultant/Senior Project Manager with a technical background in Ecology, Biology or Toxicology. M.S. or Ph.D. level, with a minimum of five years of consulting experience.

Environmental Fate/Chemist. M.S. or Ph.D. level, with a minimum of one year of experience. Experience in hydrocarbon and metal chemistry desirable.

Aquatic Toxicologist, Fisheries/Marine Biologist. M.S. or Ph.D. level, with a minimum of two to five years of experience.

Positions involve conduct, supervision and/or management of Ecological Assessments for Superfund programs as well as Natural Resource Damage Assessment programs. Interested individuals should send resumes, university transcripts, and references to:

ENTRIX, Inc.
Ralph K. Markarian, Ph.D., Manager
200 Bellevue Parkway, Suite 200
Wilmington, DE 19809

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Applications Scientist

Fisons Applied Sensor Technology (FAST), a rapidly growing division of worldwide industry leader Fisons Instruments, is seeking an Applications Scientist for its exciting new IAsys Optical Biosensor, which offers advanced capabilities for the analysis of biomolecular interactions.

The successful candidate will have a Ph.D. and relevant laboratory experience in biochemistry or a related field. Applicants must have a firm command of chemical kinetics, as well as superior presentation and communication skills. Key responsibilities include conducting field and in-house technical seminars and demonstrations, training customers, and developing new applications.

Enthusiastic and multi-talented scientists who want to become an integral part of our FAST team should send their resume with salary history to:

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ASSISTANT PROFESSOR of RADIOLOGY

The Department of Radiology, University of Minnesota Medical School is seeking a full-time physicist or chemist for an academic position at the Assistant Professor/tenure-track level. The primary responsibility for this position will be to develop a research program in NMR imaging and spectroscopy in humans, with particular emphasis on functional brain mapping; foster collaborations with neuroscientists at University of Minnesota and other institutions to establish collaborative research projects; participate in collaborative efforts in ongoing and future work in high-field magnetic resonance imaging and spectroscopy at the Center for Magnetic Resonance Research (CMRR); and generate grant applications and ultimately funding for such research projects independently and in collaboration with other neuroscience and/or CMRR faculty members. The position does not require responsibilities for teaching of courses but may involve minimal teaching in the form of selected lectures within a formal course.

Candidates who wish to apply must have:

- 1) A Ph.D. degree in either physics or chemistry, with the Ph.D. thesis research in the field of *in vivo* NMR spectroscopy and/or imaging.
- 2) At least two years of postdoctoral training in NMR imaging and spectroscopy, with particular focus on imaging and spectroscopy studies on humans.
- 3) At least two years of experience with development of techniques for and applications of functional magnetic resonance imaging in the human brain. This experience must be in addition to the Ph.D. thesis research and can be acquired during postdoctoral training.
- 4) Experience with and a working knowledge of computer programming in C language.
- 5) Experience with spatially localized spectroscopy techniques, adiabatic pulses and imaging methods.

Familiarity with SISCo NMR instruments, a broad training in NMR techniques (including, for example, a knowledge of high resolution multidimensional NMR applications), and in particular, experience with high field (>3 Tesla) human MR applications would be highly desirable. The candidate must have demonstrated ability to perform innovative research and participate in multidisciplinary collaborative projects involving neuroscientists and NMR physicists. Salary will be commensurate with experience. Anticipated start date is October 1, 1994.

Applicants for this position must submit curriculum vitae and the names and telephone numbers of three references to:

Dr. Kamil Ugurbil, Chair
Search Committee, Assistant Professor
Center for Magnetic Resonance Research
385 East River Road
Minneapolis, MN 55455

Deadline for receipt of applications is August 31, 1994.

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

UNIVERSITY OF ALABAMA AT BIRMINGHAM Microbial Genetics or Bacterial Pathogenesis

A tenure-track faculty position in the areas of Microbial Genetics and/or Bacterial Pathogenesis is available in the Department of Microbiology. While we anticipate filling this position at the Assistant Professor level, exceptional senior scientists will also be considered. Candidates should have a Ph.D. degree or equivalent and have demonstrated excellence, originality, and productivity in research. A strong commitment to graduate and medical teaching also is required. We are most interested in fostering independent research in an environment of interactive collegiality. Tenure and salary status will be dependent upon credentials.

The successful applicant will have the opportunity to join a highly interactive faculty with large pre- and postdoctoral NIH-supported training programs. The graduate program is an interdepartmental program in Cell and Molecular Biology. Faculty activities focus on: microbial physiology and genetics; gene expression; pathogenesis; vaccine development; molecular and cellular immunology with emphasis in mucosal immunology; and viral structure, replication, and assembly. The Department is ranked within the top five in NIH funding and the Schools of Medicine and Dentistry within the top 25. Excellent core research facilities are available including an exceptional animal resources program with transgenic and gnotobiotic facilities. The University has over 50 research centers including an NIH supported Center for AIDS research, Immunobiology Vaccine Center, X-ray Crystallography Center, and Comprehensive Centers for Cancer and Arthritis.

Candidates should submit written applications, including curriculum vitae, a brief statement of research accomplishments and teaching interests, a brief description of future research plans and arrange for three letters of reference to be sent to: Ms. Judy Price, Director Administrative Services, Department of Microbiology, University of Alabama at Birmingham, BBRB Room 276/11, Birmingham, AL 35294-2170.

Meeting on the Critical Assessment of Techniques for Protein Structure Prediction

December 4-8, 1994, Asilomar Conference Center, California, USA.

The goal of this workshop is to provide an objective assessment of our current ability to predict protein three dimensional structure from amino acid sequence. Structure predictors have been asked to predict as much as possible about a set of structures now being determined. Predictions are being made using comparative modeling, threading and ab initio methods. At the meeting, the outcome of these blind predictions will be assessed, current methods reviewed, and future goals identified.

Participating structure prediction teams include those of:

Geoffrey Barton, Oxford University, UK
Steve Benner, ETH, Zurich, Switzerland
Tom Blundell, University of London, UK
Steve Bryant, NLM, Bethesda, USA
David Covell, NCI, Frederick, USA
Andrew Coulson, University of Edinburgh, UK
David Eisenberg, UCLA, USA
Adam Godzik, Scripps, USA
Tim Hubbard, MRC, Cambridge, UK
Rod Hubbard, MSI, USA
Yo Matsuo, PERI, Japan
David Mosenkis, Tripos, USA
Chris Sander, EMBL, Germany
Harold Scheraga, Cornell University, USA
Manfred Sippl, University of Salzburg, Austria
Janet Thornton, University of London, UK
Gert Vriend, EMBL, Germany
Irene Weber, Thomas Jefferson University, USA

Predictions will be reviewed by:

Michael James, University of Alberta, Canada (Comparative modeling)
Shoshana Wodak, Free University of Brussels, Belgium (Threading)
Fred Cohen, UCSF, USA (Ab initio methods).

Organizing committee:

John Moulton (Chairman), Jan Pedersen, CARB, University of Maryland.
Krzysztof Fidelis, Rod Balhorn, Lawrence Livermore National Laboratory.
Richard Judson, Sandia National Laboratory.
Walt Stevens, CARB, National Institute of Standards and Technology.

Information about participation in the prediction process from jmoulton@iris4.carb.nist.gov

Participation in the meeting by interested modelers and experimentalists is invited. Attendance will be limited to approximately 100. Some financial assistance is expected to be available for predictors and junior people.

Registration information may be obtained from:

Richard Judson
Sandia National Laboratory, MS-9214
Livermore, CA 94551-0969.

Telephone: 510-294-1438

Email: rsj@sls.sandia.gov

Deadline for registration: 1 October 1994.

Preference will be given to early respondents.

ASSOCIATE EDITOR

An editorial position at *Science* is available for a Ph.D. scientist with a broad range of interests and research experience in one or more of the following areas: condensed matter physics, mineral physics, chemistry and/or materials science. We are seeking someone with at least two or three years of postdoctoral experience and publications in the refereed literature. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a full-time position in our Cambridge, U.K., office. Fluency in French or German preferred.

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Dr. Richard Gallagher
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INCLUDING HIV INFECTION
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DISORDERS, CANCER AND
INFLAMMATION.**

PROTEIN BIOCHEMISTRY-PhD

We are seeking individuals at the **PhD** level to join and help lead an existing research team, dedicated to the purification and biochemical characterization of medically important proteins, especially soluble enzymes, identified as therapeutic drug targets. You will be expected to design and implement innovative strategies for the purification of proteins at the 10-1000 mg scale, and will be primarily responsible for the ongoing availability of these proteins for X-ray crystallographic and high-field NMR analysis. Successful candidates will have a minimum of three years of experience with a diverse array of chromatographic protein isolation methods (including HPLC and FPLC), and with modern electrophoretic and spectroscopic methods for evaluating protein purity and integrity. Familiarity with biophysical methods for characterizing protein-ligand interactions would be a distinct advantage. Strong communicative and interpersonal skills are a must.

PHARMACOKINETICS AND DRUG METABOLISM-PhD

The primary responsibilities of the selected candidate will include the design and conduct of preclinical pharmacokinetic and drug metabolism studies, analytical methods development for new chemical entities and their metabolites in biological fluids, pharmacokinetic and statistical data analysis, and report summarization. Preclinical pharmacokinetic studies will include the development of appropriate animal models for absorption and metabolism studies, using the knowledge of the physicochemical properties of the drugs, allowing the prediction of drug disposition in man.

Candidates must have a **PhD** in Pharmaceutical Sciences with an emphasis on Pharmacokinetics, Biopharmaceutics and/or Drug Metabolism with 0-3 years of post-graduate experience. An excellent understanding of pharmacokinetic and metabolism principles is needed for study design, data interpretation and report writing. Candidates must have experience in bioanalytical methods development using HPLC, GC, TLC and radiometric techniques. Applicants must have experience in the use of pharmacokinetic and statistical software packages to solve kinetic problems. Excellent communication skills (both oral and written) are mandatory. A desire and interest in working "hands-on" in the laboratory is essential.

MEDICINAL CHEMIST-BS/MS/PhD

Bachelors/Masters- We seek candidates at the **Bachelors/Masters** level with a degree in synthetic organic chemistry with at least 2 years of full-time bench experience and a demonstrated enthusiasm for bench-scale synthetic chemistry, preferably within the pharmaceutical industry. We also seek an individual with a **Bachelors/Masters** degree and 4+ years industry background with hands-on experience in multiple solid supported synthesis of peptides or organic small molecules. An in-depth knowledge of peptide chemistry and state-of-the-art multiple synthesizers and familiarity with modern synthetic chemistry techniques are highly desirable.

PhD- Candidates at the **PhD** level must also possess a degree in synthetic organic chemistry and experience with a proven record of creative contributions to challenging problems. The desire to apply insights from biology, structural biophysics and computational chemistry to design problems is essential.

RESEARCH PROCESS CHEMISTS

In collaboration with a team of organic chemists, you will be directly responsible for the optimization, and scale-up of intermediates/final products, and the manipulation of these synthetic organic materials from milligram to kilogram level.

The ideal candidate will have a **PhD** in synthetic organic chemistry with a minimum of 3-5 years of experience at the preparative scale. Experience interacting with scientists at both bench and pilot plant is essential. Excellent written and oral communication skills along with a working understanding of GLP/cGMP production is highly desirable.

MOLECULAR BIOLOGY/EXPRESSION-BS/MS/PhD

We are seeking candidates at all levels in the Biological Sciences to join our existing research team involved in the expression of recombinant proteins. Suitably qualified candidates should have a minimum of 2 years of experience in molecular biology. Candidates would be expected to be proficient in routine genetic manipulation techniques including sequencing and site-directed mutagenesis. Experience in the use of expression systems for the production of recombinant proteins would be advantageous.

With our resourceful approach to structure-based rational drug design and a strong financial base, we invite you to take advantage of our excellent salaries, benefits and professional development potential. Please forward a detailed resume with references and publication record to: **Vertex Pharmaceuticals Incorporated, c/o Recruiting Manager, SC8/94, 40 Allston Street, Cambridge, MA 02139-4211.** Equal Opportunity Employer.

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POSITIONS OPEN

HARVARD MEDICAL SCHOOL NEW ENGLAND REGIONAL PRIMATE RESEARCH CENTER

THREE POSTDOCTORAL RESEARCH FELLOWSHIPS in Comparative and Veterinary Pathology are available immediately. Two of these are supported by a three-year NIH Institutional Training Grant designed to provide veterinarians (D.V.M., V.M.D., or equivalent) with research training in comparative and experimental pathology.

The other **FELLOWSHIP** is supported by individual NIH Research Grants for up to three years and is available to individuals with a graduate degree (M.D., D.V.M., Ph.D.). The research focus of this Fellowship is the pathogenesis of AIDS with an emphasis on early events in tissues, particularly the central nervous system. For this position, a familiarity with primary cell culture, molecular biology and immunopathology is desirable.

Applicants must be citizens or non-citizen nationals of the United States, or must have been lawfully admitted to the United States for permanent residence. Successful applicants will have appointments in the Department of Pathology of the Harvard Medical School for the duration of their training. The New England Regional Primate Research Center is a Harvard-affiliated institution located 25 miles west of Boston in Southborough, Massachusetts.

To apply, send a letter indicating which of the three positions you desire, your research interests and experience, along with curriculum vitae, graduate school transcript and the names of three individuals who may be contacted for references to: **Norval W. King, D.V.M., Associate Director for Research, New England Regional Primate Research Center, Harvard Medical School, One Pine Hill Drive, P.O. Box 9102, Southborough, MA 01772-9102.** *Harvard University is an Affirmative Action and Equal Opportunity Educator and Employer. Individuals from under-represented minorities are strongly encouraged to apply.*

SYMPOSIUMS

SOCIETY FOR BASIC UROLOGIC RESEARCH

1994 Fall Symposium
Fairchild Auditorium, Stanford, CA
October 20-23, 1994

Abstract Deadline: September 30, 1994
Pre-Registration Fee (by September 1): \$100
Contact: **Dr. Donna Peehl**

Department of Urology, Stanford Medical Center
Telephone: 415-725-5531; FAX: 415-723-0765

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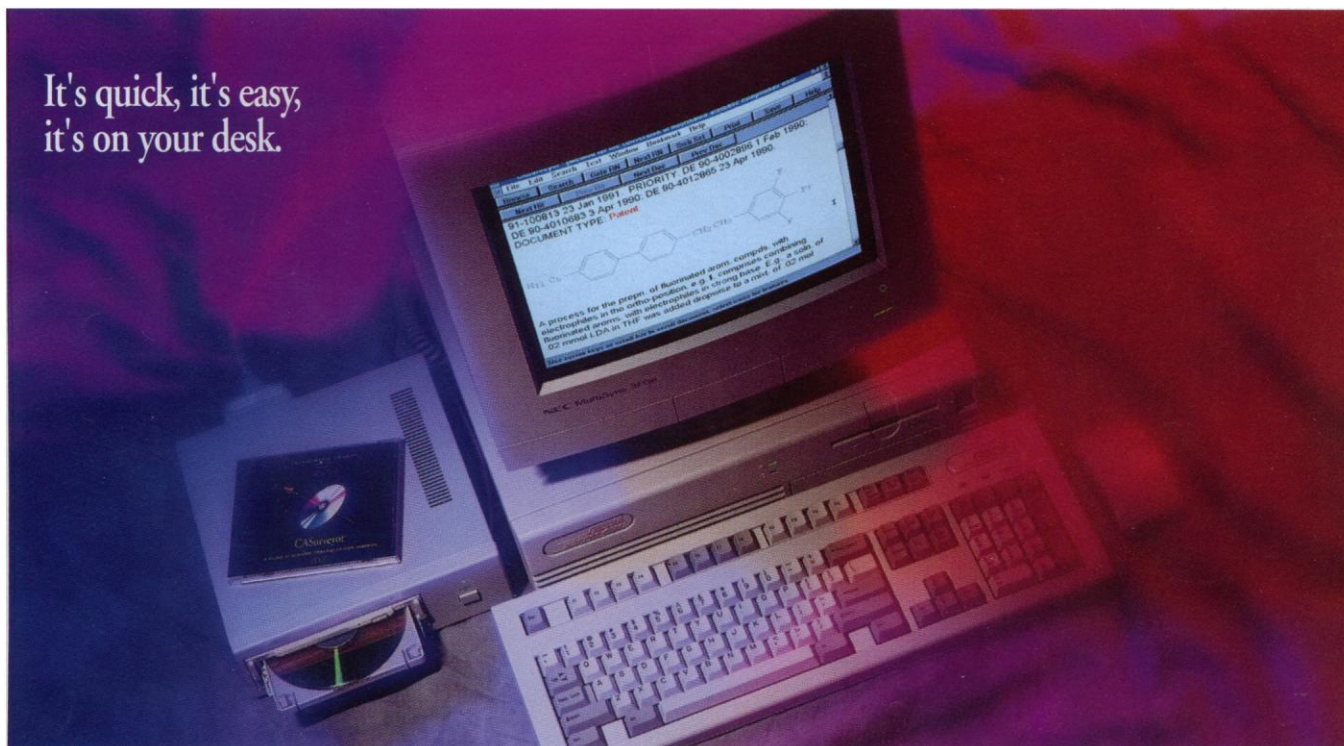
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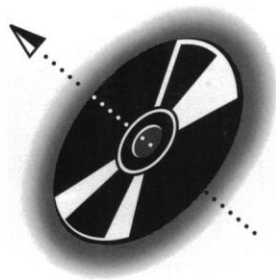
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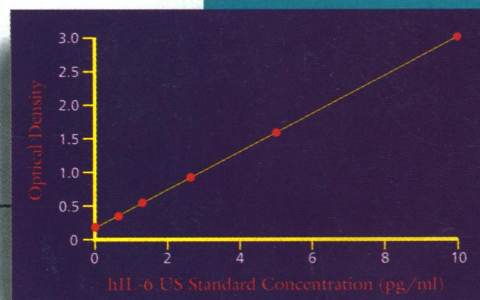
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