

Capillary Electrophoresis System

The Quanta 4000 Capillary Electrophoresis system is fully automated, allowing multiple unattended analyses. Its "Autopurge" feature speeds throughput and improves accuracy by automatically cleaning the capillaries after each run. The Quanta 4000 is



compatible with Waters data workstations and features a high-sensitivity, low-noise ultraviolet/visible detector designed to detect even trace level components. The system offers both automatic hydrostatic and electromigration injection for application flexibility. Waters, Division of Millipore. Circle 439.

Automatic Organic Carbon Determination

A new, automatic technique can selectively determine organic carbon in sediments, soils, compost, and other solid samples containing carbonates. On the basis of elemental analysis performed on Carlo Erba's NA1500 (an automatic nitrogen, carbon, and sulfur analyzer) or the EA1108 (an elemental analyzer for microanalysis), the method provides the same accuracy and repeatability of the Walkley-Black method. Differentiation of organic and inorganic carbon forms is performed by manipulation of the sample before analysis, so the same

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.

instrumental conditions are used to perform total and organic carbon determinations in two consecutive runs. Up to 196 unattended analyses are possible with a 3- to 4-min run time per sample. Carlo Erba. Circle 459.

Thermocycling Oven

The BIOSYCLER Oven, a forced-air oven with programmable thermocycling capabilities, can be used for a variety of applications from in vitro amplification to sequencing reactions. The large capacity oven holds 200 microcentrifuge tubes of four 96-well microtiter plates to be processed at one time. Setup takes only minutes. The forced-air technology provides a consistent temperature with no hot or cold spots to interfere with the desired reaction. BIOS Corp. Circle 476.

Curve-Fitting Software

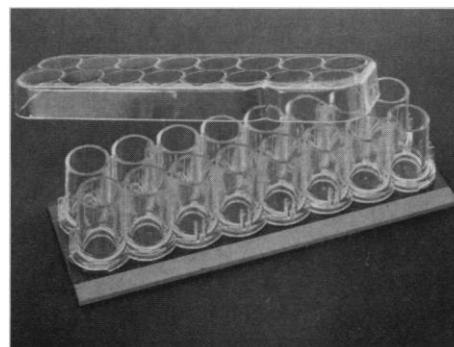
Versions 2.0 of TableCurve and TableCode provide automated curve-fitting for scientists, engineers, and technical programmers. The programs fit data to 221 different equations in a single automated step. TableCurve 2.0 offers reading and writing of Lotus 3.0 worksheets. TableCode 2.0 includes a full display of the curve-fit graph and a root-finding algorithm. The programs require 640K, a hard disk, and VGA, EGA, Hercules, or 8514/A graphics. AISN Software. Circle 450.

GPC Columns

These gel permeation chromatography (GPC) columns are compatible with more than 20 commonly used organic solvents and can be used at temperatures up to 140°C. They preclude the need for costly banks of dedicated columns for different applications. Each column is individually tested to guarantee reproducible column-to-column performance, and complete test results are included with each column. A complete range of pore sizes from 50 to 10⁵ Å is available in both 10- μ m particle sizes for less demanding work and 5- μ m sizes for high-resolution work. Burdick & Jackson Division, Baxter Healthcare. Circle 451.

Culture Analysis Device

The Lab-Tek Chamber Slide 16 Well slide allows direct culture on microscope slides and subsequent in situ staining and microscopy. The new 16-well design allows the



user to take advantage of multichannel pipettes and other devices designed for use with 96-well plates. The 16 Well has two rows of eight wells, each well with a volume of approximately 0.3 ml and a growth surface of 0.32 cm². Each unit has a unidirectional lid with condensation control rings. Nunc. Circle 455.

Mutagenesis Kit

The Mutator site-directed mutagenesis kit is designed for rapid and efficient oligonucleotide-directed mutagenesis without specialized vectors, host strains, or complicated manipulations. The kit uses *Escherichia coli* DNA polymerase III to extend the mutagenizing oligonucleotide primer. This enzyme acts rapidly (50,000 nucleotides per second) and lacks 3' to 5' exonuclease activity. The mutant strand synthesis is completed in 10 min without displacing the primer oligonucleotide. The total reaction takes less than 1 hour. Mutation efficiencies of 40 to 50% can be expected. Stratagene. Circle 466.

Literature

The 1990 *Sigma General Catalog and Price List* describes more than 25,000 biochemicals, organic chemicals, and related products with more than 1,700 items added since the 1989 edition. Entries contain technical information such as common synonyms, application notes, and references. Major product groups of bioactive peptides, immunochemicals, molecular biology, and tissue culture have a separate thumb tab for quick reference. Sigma Chemical Co. Circle 573.

SFC Systems, Options and Accessories is an eight-page catalog of products for supercritical fluid chromatography. Lee Scientific, Division of Dionex. Circle 574.

The *Cell Biology Products Quarterly Catalogue* includes a comprehensive list of cell biology products, categorized by application areas. Research Products Division of Life Technologies Inc. Circle 576.

Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year, and is mailed on issue date. Personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. **SCIENCE** reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: Thursday, 10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

POLICIES: All classified ads will be edited and typeset according to **SCIENCE** style guidelines. NO ABBREVIATIONS. Any deadline for applications stated in ad must be at least 2 weeks after date of issue in which ad appears.

CLASSIFICATION: **SCIENCE** publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Fellowships, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired; however, **SCIENCE** reserves the right to decline classification requests which it believes may be misleading to readers.

RATE: \$41 per line, \$410 minimum, per week. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces per line. No charge for use of blind box number. No agency commission for ads less than 40 lines. No cash discount. Prepayment required for all foreign ads. Purchase orders required for all other advertising.

To ESTIMATE ad cost, structure ad copy on a 52-character line; include any desired heading on 32-character lines. Each line of heading, one line of white space between heading and body of ad, and all partial lines (including centered reply information, if desired) are counted as full lines. Multiply total number of lines x \$41 = approximate cost of ad, per week. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. **SCIENCE** cannot provide proofs of typeset ads.)

BOXES AND LOGOS: Any 1-column line classified ad can be boxed and/or published with logo. No extra production charge for use of box or logo. For boxed ads, one line equals 48 characters and spaces; two additional lines will be added to cost of ad to allow for top and bottom box rules. Logos are billed according to number of lines needed to accommodate logo.

SITUATIONS WANTED ADS: As a service to AAAS members in good standing, **SCIENCE** offers free placement of Situations Wanted ads for individuals seeking full-time or part-time employment. A blind box may be used. Ads must be submitted in writing with text of 20 words or less, not including address or box number, and are limited to two insertions per member in each calendar year. Please enclose **SCIENCE** mailing label including AAAS membership number when submitting ad.

CANCELLATIONS: Deadline for cancellations is 10 a.m. Tuesday, 10 days prior to issue date.

Address ad copy or requests for information to:

SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555
FAX: 202-682-0816

MARKETPLACE AND DISPLAY PERSONNEL ADVERTISEMENTS

For rates, deadlines, and other information about fractional display ads (1/6 page and larger) and all **Marketplace** listings of available products and services, contact:

Scherago Associates, Inc.
1515 Broadway
New York, NY 10036
Telephone: 212-730-1050
FAX: 212-382-3725

RESPONSES TO EMPLOYMENT ADS

Applicants should read Positions Open ads carefully in order to submit all required material when responding, and should especially check for any stated deadline for receipt of applications.

SCIENCE encourages applicants for positions to investigate employment laws, nondiscrimination policies, visa requirements, and cultural differences in the country advertising for employees.

To reply to a blind box ad, address correspondence to:

Box (give number)
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005

POSITIONS OPEN

ANATOMIST. Applications are being accepted for a tenure-track position in the discipline of anatomy available 1 July 1990. Applicants should possess a Ph.D. degree in anatomy and the ability to teach gross anatomy and assist in the neuroanatomy and/or histology laboratories. Salary is competitive and commensurate with experience. *The college actively seeks applications from women and minorities for this position.* Send curriculum vitae and three letters of recommendation to: **Dr. Gayle H. Nelson, Chairman Anatomy Search Committee, College of Osteopathic Medicine of the Pacific, 309 East College Plaza, Pomona, CA 91766-1889.**

Affirmative Action/Equal Opportunity Employer.

ANIMAL POPULATION ECOLOGIST. Tenure-track **ASSISTANT PROFESSOR;** Ph.D. required; 50% teaching, 50% research. Research interests in wildlife ranging through conservation biology, exploited populations, and population genetics will be considered. Send curriculum vitae and three letters of reference by 1 May 1990 to: **Dr. John Kadlec, Search Committee, Department of Fisheries and Wildlife, Utah State University, Logan, UT 84322-5210.** *Utah State is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR

The Department of Chemistry and Biochemistry at Utah State University (USU) seeks to fill a tenure-track assistant professor position by fall of 1990. A protein biochemist is sought, specific research area open. Preference will be given to those whose research and teaching complement existing faculty. A Ph.D. is required and postdoctoral experience highly desirable. The candidate will be expected to establish an independent research program. Opportunities are available for research interaction with several interdepartmental programs, including the molecular biology program, biotechnology center, and center for biocatalysis science and technology. Submit curriculum vitae, statement of research plans, and three letters of recommendation to: **Biochemistry Search Committee, Department of Chemistry and Biochemistry, Utah State University, Logan, UT 84322-0300.** Closing date is 1 June 1990, but applications will be accepted until the position is filled. *USU is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR, ZOOLOGY. Applications are invited for a full-time, tenure-track teaching and research position beginning in August of 1990. Applicants must have a Ph.D. in zoology, postdoctoral experience desirable, and a strong background in animal parasitology. Candidates should be bilingual in English and Spanish. The candidate will participate in the teaching program at the undergraduate and graduate levels and establish an independent research program. Send curriculum vitae, three letters of reference, and copies of recent publications to: **Dr. Carlos A. Delannoy, Chairperson, Department of Biology, University of Puerto Rico, Mayagüez, PR 00709-5000.** Applications must be received by 30 April 1990. *The University of Puerto Rico is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

ASSISTANT OR ASSOCIATE PROFESSOR, BIOCHEMICAL TOXICOLOGY. Louisiana State University (LSU) is seeking a highly motivated person to develop a strong research program in biochemical toxicology. Emphasis on application of biotechnology to environmental concerns. Position requires Ph.D. in chemistry, biochemistry, pharmacology, toxicology, or closely related field. This is a fiscal year (12-month), tenure-track appointment. Send résumé and three letters of recommendation to: **Dr. Charles R. Short, School of Veterinary Medicine, LSU, Baton Rouge, LA 70803,** by 15 May 1990. *LSU is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR/RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW. To conduct electrophysiological studies related to behavior in animals. Applications are invited for a faculty member to work within a multidisciplinary group utilizing neurochemical, neuropharmacological, physiological, and immunological techniques to study disorders of behavior (particularly depression) and the immune system. Experience desirable in single-unit recording and related techniques. Position available immediately. Contact: **Dr. Jay Weiss, Department of Psychiatry, Box 3829 Duke University Medical Center, Durham, NC 27710.** Telephone: 919-684-4451, 52. *Duke University is an Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR (nontenure, research track). Position available 1 September 1990 in the Department of Pharmacology, University of Texas Southwestern Medical Center, Dallas, to work on signaling as it relates to the guanylyl cyclase receptor family. Ph.D. and postdoctoral experience and expertise in recombinant DNA technology and enzymology required. Send curriculum vitae to: **David L. Garbers, Ph.D., c/o Wendy J. Deaner, Department of Pharmacology, The University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9041.** *An Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR BIOCHEMISTRY/MOLECULAR BIOLOGY

The Biochemistry and Molecular Biology Department of the Medical University of South Carolina seeks an exceptional individual for a tenure-track position. The area of research interest is open, but applications from those with current research interests in structural biology are encouraged. The successful applicant will be expected to establish an independent research program and participate in the teaching activities of the department. A Ph.D. and at least 2 years of postdoctoral experience are required. A letter of application, full curriculum vitae with research interests, and the names of at least three references should be sent by 1 May 1990 to: **Dr. John W. Ledbetter, Department of Biochemistry and Molecular Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.** Telephone: 803-792-4321.

Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR EMBRYOLOGY AND HISTOLOGY

Fall of 1990 or January 1991; tenure-track faculty position to teach an advanced undergraduate vertebrate embryology course and to participate in team teaching of microanatomy to medical students. Minimum salary: \$30,000. Candidates must have a Ph.D. degree with postdoctoral experience, and experience in teaching medical histology is highly desirable. The research area is open, but an active research program must be maintained. The department has 44 faculty members, 70 graduate students, participates in the interdisciplinary programs in neurobiology and molecular and cellular biology, and teaches undergraduate, graduate and medical students. Please send curriculum vitae, statement of research and teaching interests, and three letters of recommendation by 7 May 1990 to: **Jean Witkowski, Department of Zoological and Biomedical Sciences, Ohio University, Athens, OH 45701.**

Ohio University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, IMMUNOLOGIST. The Microbiology Department of the Chicago College of Osteopathic Medicine invites applications for a tenure-track position. A Ph.D., 2 years of postdoctoral experience or equivalent, and strong commitment to teaching are required. Preference given to those having research interests in cellular immunology or immunologic aspects of microbial pathogenesis. Send curriculum vitae, a statement of research interests and names of three references to: **Dr. J. R. Burdick, Department of Microbiology, Chicago College of Osteopathic Medicine, 555 31st Street, Downers Grove, IL 60515.**

ASSISTANT PROFESSOR OF MEDICINE. Infectious Diseases Section, Yale University. Position available for an M.D. or Ph.D. with demonstrated research productivity in the cell biology of intracellular parasitism. Newly renovated laboratory space is available, contiguous with other laboratories within the Infectious Diseases Section. Salary support and start-up funds will be provided for a period of 2 years through the Section of Infectious Diseases/Department of Medicine. The Infectious Diseases Section at Yale has a strong collaborative tie with the Department of Cell Biology and with the MacArthur group in molecular parasitology within the Department of Epidemiology and Public Health. Interested applicants should send curriculum vitae and three letters of recommendation to: **Keith Joiner, M.D., Chief, Section of Infectious Diseases, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510.** *Yale is an Equal Opportunity/Affirmative Action Employer. Applications from women and minority groups are encouraged. Application deadline is 4 May 1990.*

POSITIONS OPEN

ASSISTANT PROFESSOR OF PHYSIOLOGY

The Department of Physiology, Chicago College of Osteopathic Medicine, invites applications for a tenure-track, faculty position at the rank of assistant professor. Applicants must have a Ph.D., or equivalent, a minimum of 2 years of postdoctoral experience and the ability to teach human physiology to medical students. It is expected that the successful candidate will develop a vigorous, independent research program capable of attracting extramural funding, preferably in an area that complements ongoing programs in cardiovascular, diabetes, and vascular smooth muscle research. Interested applicants should send their curriculum vitae, reprints of representative publications, a synopsis of research interests and future plans, and the names of three references to: **Stephen J. Kopp, Ph.D., Chairman, Department of Physiology, Chicago College of Osteopathic Medicine, Downers Grove, IL 60515.** *Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR TENURE TRACK

The Nuclear Medicine Section of the Department of Radiology is seeking a tenure-track assistant professor to serve as **ASSISTANT DIRECTOR OF RESEARCH** in the department and to be a major participant in projects concerning the molecular biology of radiation resistance. Research presently involves cloning, characterizing, and transferring of genetic elements responsible for radiation resistance in microorganisms and mammalian cells in culture. A recent Ph.D. with expertise and publications in microbiology/molecular biology would be desirable. An appointment in the appropriate basic science department will be provided. Salary will be commensurate with experience. Send curriculum vitae and three references by 15 April 1990 to:

Glenn V. Dalrymple, M.D.
Director, Section of Nuclear Medicine
Director of Research, Department of Radiology
University of Nebraska Medical Center
600 South 42nd Street
Omaha, NE 68198-1045

The University of Nebraska Medical Center is an Equal Opportunity/Affirmative Action Employer, M/F/H/V.

Tenure-track **ASSISTANT PROFESSOR** appointed in Center for Interfacial Microbial Process Engineering, a newly established National Science Foundation Engineering Research Center (ERC). Up to \$45,000 for academic year. Conduct interdisciplinary research, develop/maintain an externally funded research program consistent with center goals, work closely with industry. Ph.D. in chemistry, environmental engineering, or related field and demonstrated research in aquatic, electro-, surface chemistry, or combination required. Must demonstrate communication skills and potential for leadership in center. Send letter of application, curriculum vitae, three publications, and telephone numbers of three references to: **Lynda Andersen, ERC, Montana State University (MSU), Bozeman, MT 59717.** Provide written response to the question, "How can the university contribute to U.S. industrial competitiveness?" Contact Lynda for more information. Deadline for first screening: 4 May 1990. *Employment preference to eligible veterans;* contact: **HR/AA, 210-C MH, MSU, Bozeman, MT 59717.** *An Affirmative Action/Equal Opportunity Employer.*

Tenure-track **ASSISTANT OR ASSOCIATE PROFESSOR** position appointed in Center for Interfacial Microbial Process Engineering, a newly established National Science Foundation Engineering Research Center (ERC). Conduct interdisciplinary research, maintain an externally funded research program consistent with center goals, work closely with industry, contribute to center management. Ph.D. in microbiology or related field and demonstrated research in environmental microbiology with emphasis in ecology/physiology required. Up to \$55,000 for academic year. Send letter of application, curriculum vitae, three publications, and telephone numbers of three references to: **Lynda Andersen, ERC, Montana State University (MSU), Bozeman, MT 59717.** Provide written response to question, "How can the university contribute to U.S. industrial competitiveness?" Contact Lynda for more information. Deadline for first screening: 4 May 1990. *Employment preference to eligible veterans;* contact: **HR/AA, 210-C MH, MSU, Bozeman, MT 59717.** *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR, PHARMACOLOGY

Ladder faculty position will be filled in the area of structural analysis of receptor drug or ligand interaction. Focus on some aspect of potential cancer therapy, such as oncogenes, growth factor receptors, or signal transduction mechanisms is required. A departmental molecular modeling and computational resource has been established and high field NMR and x-ray crystallography facilities are accessible to an appropriately qualified individual. Applications submitted by 1 June 1990 should include curriculum vitae, description of research interest, and the names of at least three referees and be sent to: **Dr. R. E. Handschumacher, Chairman, Search Committee, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.** *Yale University is an Equal Opportunity/Affirmative Action Employer.*

Yale Department of Medicine is seeking an **ASSISTANT PROFESSOR** to perform clinical investigation in the pathophysiology of AIDS-related enteropathy. Individual will also help to meet an increased demand for diagnostic and therapeutic GI endoscopy and participate in teaching and clinical care. Interested candidates should submit their curriculum vitae and three letters of reference to: **Dr. James L. Boyer, Chief, Digestive Diseases, Department of Internal Medicine, Yale School of Medicine, P.O. Box 3333, New Haven, CT 06510,** by 7 May 1990. *Yale is an Affirmative Action/Equal Opportunity Employer. Applications from women and minorities are encouraged.*

The Division of Radiation and Cancer Biology, New England Medical Center/Tufts University, Boston, is recruiting an **ASSISTANT** and an **ASSOCIATE PROFESSOR** with Ph.D. or M.D. degrees. One position is for a scientist to study molecular mechanisms relevant to cancer therapy. Responsibilities include teaching radiobiology. The second position is for a scientist to study molecular events in radiation-induced damage and carcinogenesis. Experience in modern techniques of cell biology is required for both positions. To apply, submit a letter of application with a description of research interests, curriculum vitae, and three referees to: **Director, Division of Radiation and Cancer Biology, Box 824, Department of Radiation Oncology, New England Medical Center/Tufts University, 750 Washington Street, Boston, MA 02111.**

ASSISTANT/ASSOCIATE PROFESSOR ANATOMY/NEUROBIOLOGY

Applicants are invited for a tenure-track position in the Department of Anatomy and Cell Biology, University of North Dakota School of Medicine. Applicants must have Ph.D., M.D., or equivalent with at least 2 years of postdoctoral training and research experience in developmental neurobiology or related areas. The successful applicant will be expected to carry on a vigorous extramurally funded research program in his/her respective field. Applicants should be willing to accept responsibility for directing or co-directing an interdepartmental neuroscience course for medical students and for making a substantial contribution to the departmental graduate program. Send curriculum vitae, descriptions of research and teaching experience, and three letters of reference by 15 May 1990 to: **Dr. Edward C. Carlson, Chairman, Department of Anatomy and Cell Biology, University of North Dakota School of Medicine, Grand Forks, ND 58202.** *The University of North Dakota is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.*

The Division of Gerontology in the Department of Medicine, University of Alabama at Birmingham (UAB), has a tenured **ASSOCIATE PROFESSOR** position open for an experienced peptide chemist with a terminal degree who works in the field of lipoproteins. This scientist will study the structure and function of apolipoproteins, work on the immunoregulatory properties of apolipoproteins, and study the antiviral properties of lipoproteins. The successful candidate must have knowledge of physical, chemical, and biological methods to be used in the above stated studies, be independent, and have a demonstrated ability to obtain federal grant support, and be well accomplished as evidenced by publications in well-refereed scientific journals. Send curriculum vitae, three reference letters, and statement of research interests by 1 May 1990 to: **Jere P. Segrest, M.D., Ph.D., Professor of Medicine, Room 630 BDB, UAB Station, Birmingham, AL 35294.**

POSITIONS OPEN

HARVARD MEDICAL SCHOOL CHILDREN'S HOSPITAL, BOSTON HOWARD HUGHES MEDICAL INSTITUTE

The Harvard Medical School, the Children's Hospital, and Howard Hughes Medical Institute are jointly seeking to fill a **PROFESSORSHIP** of microbiology and molecular genetics. The person appointed will be expected to establish a major new research program in molecular virology in the Division of Infectious Diseases at the Children's Hospital. The successful candidate should have a record of significant contributions of medical importance to the fundamental molecular characterization of viral system(s). The program will collaborate with the laboratories of Drs. Don Wiley and Stephen Harrison on the structures of viruses, viral glycoproteins, and cell-surface receptors, particularly as they relate to virus/host-cell interactions, assembly, antigenicity, and principles of anti-viral drug design. It should also complement the work of Dr. Jean Patterson on replication and macromolecular biosynthesis in bunyavirus and other RNA viruses, and of Dr. Kenneth McIntosh on the pathogenesis, prevention, and treatment of HIV infections in infants and children. The person will also interact closely with the clinical infectious diseases program.

Applicants should submit curriculum vitae and a statement of research interests, and the names and addresses of three references to: **Dr. Bernard Fields, Chairperson, Search Committee, Harvard Medical School, Building D1, Room 425, 200 Longwood Avenue, Boston, MA 02115, immediately.** *Harvard Medical School is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority candidates are encouraged to apply.*

ATMOSPHERIC PHYSICIST. To carry out field/laboratory studies related to precipitation mechanisms, cloud thermal radiation, and electrification, and be responsible for design and operation of instrumentation on research aircraft, in laboratory and analysis of results. Opportunity to teach in atmospheric science program at the University of Nevada. Requires Ph.D. in physics or related discipline with relevant research experience. Rank and salary dependent on qualifications; excellent benefits. Applications must be received by 31 May 1990. Send résumé and letter of interest to: **Personnel Office, Desert Research Institute (DRI), P.O. Box 60220, Reno, NV 89506.** *The DRI is Affirmative Action/Equal Opportunity Employer and employs only U.S. citizens and aliens lawfully authorized to work in the United States.*

BIOCHEMIST. Conduct original research in the area of isotope fractionations in biochemistry and biology, including studies of enzymes, chemical model systems, and plants. Operate and maintain isotope-ratio mass spectrometer and the sample preparation system and vacuum lines associated with it. Provide instruction in the operation of the mass spectrometer and associated systems and in the measurement of isotope fractionation. Submit research proposals. Publish in scholarly journals. Train and supervise technical staff. Requires Ph.D. in biochemistry, chemistry, or one of the life sciences; demonstrated ability to perform isotope-ratio mass spectrometry, measurement of stable isotope ratios by mass spectrometry, operation of vacuum systems to prepare samples, isolation and purification of enzymes, photosynthesis of plants, and carbon metabolism in plants. Must have good written and oral communication skills. Forty hours per week; \$35,000 annually. Submit applications to: **Bernie Childerston, P.O. Box 94600, Lincoln, NE 68509,** referring to **Job Order Number 0512640.** *Affirmative Action/Equal Opportunity Employer.*

The Texas College of Osteopathic Medicine is now accepting applications for **CHAIRMAN OF THE DEPARTMENT OF ANATOMY AND CELL BIOLOGY.** The department currently has 12 faculty members whose research covers a wide variety of areas. Viable candidates should have an established research program, teaching experience (preferably medical), and demonstrated managerial skills. Applications must be received by 1 June 1990, and accompanied by curriculum vitae and a list of three individuals who may be contacted as references. Applications should be sent to:

Dr. Paul F. Cook
Chairman, Anatomy Search Committee
Department of Microbiology and Immunology
Texas College of Osteopathic Medicine
3500 Camp Bowie Boulevard
Fort Worth, TX 76107-2690

Texas College of Osteopathic Medicine is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF BIO-CHEMISTRY. Tulane University School of Medicine invites applications and nominations for the position of chairperson of the Department of Biochemistry. Candidates should be well-established and funded investigators with a fundamental commitment to teaching medical and graduate students. Focus will be on cellular and molecular biology both within and between departments. Applicants should send curriculum vitae, names and addresses of three references, and a statement about professional goals, interests, and experience to: **Dr. Cyril Y. Bowers, Department of Medicine, Tulane Medical School, 1430 Tulane Avenue, New Orleans, LA 70112.** Applications will be accepted until 30 April 1990. *Tulane Medical School is an Equal Opportunity/Affirmative Action Employer.*

CHAIRPERSON, Department of Psychology, Washington University in St. Louis. An outstanding scholar with an active research program and a broad understanding of contemporary psychology is sought to chair the Department of Psychology. This is a tenured position at the rank of full professor; salary is negotiable. *We especially encourage applications from women and members of minority groups.* The Psychology Department is part of a strong liberal arts curriculum in the Faculty of Arts and Sciences and has close ties to an outstanding medical school with well-developed programs in neurobiology and clinical neuroscience. Psychology is the most popular major for Washington University's superior undergraduate students. The department has a variety of graduate programs leading to the Ph.D. degree. Washington University is a well-endowed private research and teaching university. The university is making a major commitment to building a first-ranked Psychology Department. This search is for a leader of that effort. In addition to excellence in scholarship, broad knowledge of psychology, and academic vision, an aptitude for administration is required. Direct inquiries (including curriculum vitae) to: **Professor Marcus E. Raichle, Chair, Psychology Department Chairperson Search Committee, Campus Box 1125, Washington University, St. Louis, MO 63130.** *Washington University is an Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required upon hire.*

The Nature Conservancy's Latin America Science Program is seeking a **DIRECTOR OF PROGRAM DEVELOPMENT**, who will have responsibility for project management and institutional relations with Latin American and Caribbean Conservation Data Centers and with scientific and conservation collaborators and funding sources. Requirements: advanced degree in biological sciences or natural resources management, fluency in Spanish or Portuguese, research or conservation experience in Latin America. Submit curriculum vitae and names of three references by 30 April 1990 to: **Dr. Bruce A. Stein, Director, Latin America Science Program, The Nature Conservancy, 1815 North Lynn Street, Arlington, VA 22209.**

DIRECTOR SCOTT-RITCHEY RESEARCH PROGRAM

The College of Veterinary Medicine, Auburn University, invites applications for director of the Scott-Ritchey Research Program. This position offers a unique opportunity to conduct independent research to provide effective leadership for research programs dealing with diseases of small pet animals and basic biomedical topics. Supported by endowment are seven core scientist positions, technical staff, a variety of interdepartmental activities, and operation of an attractive facility with well-equipped laboratories. Credentials of the successful applicant will include a Ph.D. degree, experience in directing postgraduate training programs, direction of a research program having excellent peer recognition and sustained extramural funding, strong publication record, and evidence of administrative and leadership skills. Preference will be given to applicants with D.V.M. or equivalent degree with a research record in diseases of small pet animals. Application deadline is 5 June 1990 or until the position is filled.

Applicants should send a letter of intent, curriculum vitae, and names of three references to: **Dr. Charles D. Knecht, Chairman, Search Committee, Hoerlein Hall, College of Veterinary Medicine, Auburn University, AL 36849.** Telephone: 205-844-6003.

Auburn University is an Affirmative Action/Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.

6 APRIL 1990



NATIONAL UNIVERSITY OF SINGAPORE DEPARTMENT OF MICROBIOLOGY

Applications are invited for appointment as Senior Lecturer or Associate Professor in the Department of Microbiology. Candidates should possess a higher academic/professional qualification in Microbiology such as MRCPPath. It will be an advantage to have experience in electron microscopy. The appointee will be required to teach medical microbiology at the undergraduate and postgraduate levels, and will be expected to engage in research in the relevant fields.

Gross annual emoluments range as follows:

Senior Lecturer	SS\$8,680 - 100,310
Associate Professor	SS\$8,650 - 122,870

(US\$1.00 = S\$1.87 approximately)

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered. In addition, appointees with a basic medical degree and an approved higher academic/professional qualification may receive a fixed annual clinical allowance as follows:

Senior Lecturer	SS\$15,000
Associate Professor	SS\$21,000

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S\$1,000 or S\$2,000, subsidised housing at nominal rentals ranging from S\$100 to S\$216 p.m., education allowance for up to three children subject to a maximum of S\$10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

The Department of Microbiology is a department in the Faculty of Medicine. There are 8 faculties in the National University of Singapore with a current student enrollment of some 14,000. All departments are well-equipped with a wide range of facilities to enhance the teaching and research activities of staff members. The University is linked to BITNET, an international network that interconnects almost 500 mainframe computers at 200 institutions of higher learning and research centres around the world.

Application forms and further information on terms and conditions of service may be obtained from:

**The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511**

**The Director
North America Office
National University of Singapore
55 East 59th Street
New York, N.Y. 10022, U.S.A
Tel: (212) 751-0331**

Enquiries may also be sent through BITNET to: **PERSDEPT @ NUSVM**, or through **Telefax: (65) 7783948**

Gliatech, Inc., a newly formed neuroscience-based medical technology company, is looking for two creative, productive scientists who wish to see eventual practical application of their efforts to the treatment of devastating neural disease.

Head of Biomolecular Research

Lead a research and development group which will include scientists with expertise in molecular biology and protein and carbohydrate biochemistry. This group will be responsible for the identification, purification, characterization, cloning and production of unique neuroglial factors, most likely proteinaceous and/or carbohydrate-like in nature.

Head of Chemical Research

Lead a research and development group which will include chemists with expertise in the areas of polymer chemistry, carbohydrate chemistry and organic chemistry. This group will design and synthesize unique molecules based on carbohydrate, peptide and other base structures, both as research tools and as potential therapeutic agents. It will also coordinate the development of unique polymer delivery systems, and serve as an interface to external technical experts contributing to the above goals.

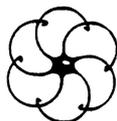
Both positions require a Ph.D. and expertise in one or more of the appropriate disciplines listed above. At least seven years' postdoctoral experience, with a part of this in a leadership role, is preferred.

Successful candidates will have strong scientific credentials and leadership capabilities. They will contribute to a scientific management team establishing the technical direction of the company, and will lead the endeavors of their teams to provide creative solutions to the company's biomolecular and chemical research needs.

Gliatech has defined a unique niche in the burgeoning new field of medical neuroscience and is well positioned to become a leader in this challenging endeavor. It will focus on the properties of neuroglia to accomplish this goal to discover, develop and commercialize unique products to promote the healing and repair of disease and injury to the central and peripheral nervous systems. Gliatech's new laboratories are located in Beachwood, Ohio, in proximity to Case Western Reserve University and the Cleveland Clinic. The company's collaborative projects with outstanding scientists and clinicians at these institutions and close interaction with an exceptional group of scientific and clinical advisors from other renowned institutions throughout the country provide an exceptional intellectual environment.

This location also provides access to a variety of highly attractive and affordable housing as well as an exceptional array of cultural and sports activities of high quality and accessibility.

Gliatech offers excellent compensation and benefits packages including stock options. For consideration, please send your resume, in confidence to: **Human Resources Manager, Gliatech, Inc., 23420 Commerce Park Road, Beachwood, OH 44122.** An equal opportunity employer.



Gliatech

POSITIONS OPEN

CHAIRMAN, DEPARTMENT OF GENETICS CASE WESTERN RESERVE UNIVERSITY SCHOOL OF MEDICINE

Applications and nominations are being requested for the Henry Payne Willson Chair of the Department of Genetics. Substantial funding is available to significantly expand the school's commitment to molecular, developmental, and human genetics. The present department includes a core of seven faculty, transgenic mouse, *Drosophila* genetics and flow cytometry facilities, as well as instrumentation for protein sequencing and DNA and peptide synthesis. The department maintains a close affiliation with the Division of Medical Genetics in Pediatrics. Graduate students and postdoctoral fellows are funded from several interdepartmental NIH training grants, an NIH-funded M.D./Ph.D. program, as well as other sources.

Applications or nominations should be submitted to: **Dr. Richard W. Hanson, Genetics Search Committee, Department of Biochemistry, Case Western Reserve University School of Medicine, 2040 Adelbert Road, Cleveland, OH 44106.**

Case Western Reserve University is an Equal Opportunity/Affirmative Action Employer.

CHAIRPERSON, DEPARTMENT OF RESTORATIVE DENTISTRY UNIVERSITY OF CALIFORNIA SAN FRANCISCO (UCSF) SCHOOL OF DENTISTRY

Position as chairperson of the Department of Restorative Dentistry, which includes programs in biomaterials, operative dentistry, endodontics, and predoctoral and postdoctoral programs in prosthodontics, orofacial pain, and TM disorders. Departmental responsibilities include administration, research, teaching, patient care, and community and university service in this broad array of subject areas. Demonstrated administrative experience and academic qualifications for a senior professorial rank are required; D.D.S. or equivalent degree is desirable. Salary commensurate with qualifications. Applications will be reviewed upon receipt, and position will be open until filled.

Please send curriculum vitae to: **Dr. Karin Vargervik, Chair, Search Committee, UCSF School of Dentistry, 513 Parnassus Avenue, S-630, San Francisco, CA 94143-0430.**

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

The University of Minnesota, Department of Pediatrics, is seeking a **DIRECTOR** of the Division of Endocrinology. This is a senior position and has high priority in the Department of Pediatrics. The candidate should have leadership, clinical, and research experiences necessary to direct an endocrinology and metabolism program in a strong academically oriented department.

Qualifications: candidate must have an M.D. degree. This position will be a tenured **ASSOCIATE OR FULL PROFESSOR** with the rank to be commensurate with the years of experience and accomplishments. The candidate must have demonstrated professional distinction in research and writing, have an active ongoing research program which has attracted national funding, and have demonstrated effectiveness in teaching and advising. Candidate must be approved by the promotions committee of the Department of Pediatrics and the Medical School.

Last date for receipt of application is 30 June 1990. Applications and nominations (include names and addresses of three referees) should be sent to: **S. Michael Mauer, M.D., Chairman, Search Committee for Head of Pediatric Endocrinology and Metabolism, University of Minnesota Medical School, Box 491 UMHC, 515 Delaware Street S.E., Minneapolis, MN 55455.**

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

CHEMISTRY LIBRARIAN, University of Michigan. Qualifications: accredited master's of library science; previous scientific or technical library reference experience; degree, coursework, or work experience in chemistry or related fields. Minimum salary: \$27,000. Apply to: **Lucy R. Cohen, 404 Hatcher Graduate Library North, University of Michigan, Ann Arbor, MI 48109-1205.** Apply by 31 May 1990. *The University of Michigan is a nondiscriminatory, Affirmative Action Employer.*

POSITIONS OPEN

ASSOCIATE DEAN MEDICAL SCIENTIST TRAINING PROGRAM

The University of Texas Southwestern Medical Center at Dallas seeks an associate dean for its expanded Medical Scientist Training Program, a dual degree program that awards both M.D. and Ph.D. degrees to outstanding students who complete a rigorous course of study and research in medicine and biomedical science.

The Medical Scientist Training Program is one of 29 M.D./Ph.D. programs around the country that are funded by the National Institutes of Health. A large gift from Mr. Ross Perot has enabled Southwestern to double the enrollment of this highly selective program while ensuring that the very best students, wherever they may be, are attracted to it.

The associate dean will be expected to build a network of professional contacts, particularly among premedical advisers, science advisers, and science department chairs at colleges and universities. This person will develop and maintain an extensive database and file system dedicated to student recruitment, will plan and undertake numerous recruiting trips, and will provide support and coordination to the faculty as they assist in recruitment and admissions. The associate dean will assist the director of the program in counseling students, coordinating student activities, and administering the Medical Scientist Training Program.

The university seeks an energetic, enthusiastic, and articulate individual who understands biomedical science and who conveys its excitement to students. A commitment to the highest standards and the ability to recognize excellence are essential. A doctoral degree is required. The person must be willing to travel extensively.

The position carries a salary and fringe benefits commensurate with applicant qualifications.

Résumés and letters of interest or nomination should be sent no later than 30 April 1990 to:

Dean's Office
Southwestern Medical School
The University of Texas Southwestern
Medical Center at Dallas
5323 Harry Hines Boulevard
Dallas, TX 75235-9003

An Affirmative Action/Equal Opportunity Employer.

DIRECTOR OF RESEARCH GRANTS AND CONTRACTS

Academic health science center: responsibility for the day-to-day administration and supervision of the campus grants office. The Louisiana State University (LSU) Medical Center School of Medicine in Shreveport has a growing, vital research program that involves grants and contracts with numerous federal and private granting agencies.

Applicants should have as a requirement a master's degree in basic health science, business, or public health and a minimum of 8 years of relevant professional experience in grants administration, at least two of which were at a senior management level; or, desired, Ph.D. in basic health science with a minimum of 10 years of professional grants administration experience at least three of which were at a senior management level.

Please direct inquiries and/or submit résumés to:

Darryl Williams, M.D.
Dean, LSU Medical Center
P.O. Box 33932
Shreveport, LA 71130-3932

LSU Medical Center is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR OF OREGON SEA GRANT. Oregon State University (OSU) seeks person to provide leadership and administrative oversight for program with activities in research, extension, communications, and education. Must have Ph.D. or equivalent experience in marine-related field and qualify for tenure in an academic department. Position is available 15 November 1990 and provides indefinite tenure, rank of professor or associate professor, and salary commensurate with experience and qualifications. To apply submit letter of interest, résumé, and names, addresses, and telephone numbers of four references (contacted only after consent). Nominations close 1 May 1990, applications 15 May 1990. Send to: **Richard Scanlan, Chair, Screening Committee, Attention: Carol Bailey, Sea Grant, Oregon State University, AdS A500G, Corvallis, OR 97331.** Telephone: 503-737-2714. *OSU is an Equal Opportunity/Affirmative Action Employer and is responsive to the needs of dual-career couples.*

POSITIONS OPEN

CELLULAR IMMUNOLOGIST

Applications are invited for a position available July 1990 at a basic biomedical research institute. Experience in cellular immunology, molecular biology, and cell culture required, including 2+ years of postdoctoral training. Interest in relating immunologic function to cardiovascular disease, including hypertension, atherosclerosis, or cardiac pathologies desirable. Opportunities to interact with ongoing research areas including hypertension, cancer, gerontology, and cardiac electrophysiology. Send curriculum vitae and references to: **Dr. Charles Antzelevitch, Director of Research, Masonic Medical Research Laboratory, 2150 Bleecker Street, Utica, NY 13501.**

CELL/MOLECULAR PHYSIOLOGIST. The Department of Physiology, Medical University of South Carolina, Charleston, South Carolina, invites applications for a tenure-track faculty position at the rank of **ASSISTANT/ASSOCIATE PROFESSOR.** Applicants should have Ph.D. or M.D. degree and postdoctoral research experience. We are particularly interested in individuals who have an established or promising investigative program using cellular, biophysical, and/or molecular approaches to physiological problems. Preference will be shown to individuals studying mechanisms of signal transduction, function of membrane proteins, receptors, and regulation of gene expression, and whose research complements existing departmental programs and future development in molecular/cellular endocrinology, eicosanoids and sepsis, membrane biology, and cellular neurophysiology. Excellent opportunities exist for participation in several established thematic interdisciplinary programs in neuroendocrinology, circulatory shock, cardiology, neural trauma, and epithelial transport. Substantial start-up funds are available. Applicants should send curriculum vitae, current reprints, a statement of research interests and career goals, and names and addresses of three references to: **Dr. J. G. Ondo, Department of Physiology, Medical University of South Carolina, Charleston, SC 29425.**

An Affirmative Action/Equal Opportunity Employer.

CHEMIST. GS-12 or GS-13 (\$35,825 to \$46,571 or \$42,601 to \$55,381). The U.S. EPA Environmental Monitoring Systems Laboratory, Las Vegas, Nevada (EMSL-LV), is seeking an experienced master's or Ph.D. level individual in the area of analytical methods development for environmental contaminants and biomarkers. Individual must have recent laboratory experience. Individual should have an interest in the development of immunoassays and the integration of immunochemistry with other analytical methods. Experience in developing, formatting, validating, and use of immunoassays for small molecules as well as chemical synthesis is desirable. Individual would perform laboratory functions, field evaluations of methods, and report writing. The selected candidate would work under the direction of the immunoassay technical program manager and be responsible for individual projects. The EMSL-LV has ongoing projects in both immunoassay development and evaluations. *EPA is an Equal Opportunity Employer. Applicant must be a U.S. citizen.* All inquiries should be sent to: **U.S. EPA, Human Resources Office, P.O. Box 98516, Las Vegas, NV 89193-8516,** postmarked by 27 April 1990.

DEVELOPMENTAL BIOLOGISTS. The Wistar Institute of Anatomy and Biology invites applications at the **ASSISTANT PROFESSOR** level from scientists trained and interested in mammalian development (more senior candidates will also be considered). The role of cell adhesion molecules in morphogenesis, the genetic control of pre-implantation development, homologous recombination in embryonic stem cells, and the role of growth factors in fertilization and development are areas of active research by Wistar scientists. It is anticipated that new appointments will complement and strengthen this ongoing research. Space, facilities, and financial resources are available for this expansion program. The Wistar Institute is an international center for investigating the basic molecular mechanisms of a broad range of diseases. The institute is located on the University of Pennsylvania campus and is equipped with the latest biotechnology support facilities. Applicants interested in joining our superb staff in an interactive scientific environment should send curriculum vitae with the names of three references to: **Davar Solter, M.D., Ph.D., Professor, The Wistar Institute, 36th and Spruce Streets, Philadelphia, PA 19104.** *Equal Opportunity Employer, M/F.*

HUBBARD BROTHERS CHAIR IN BIOLOGICAL SCIENCES

The College of Life Sciences and Agriculture, University of New Hampshire seeks nominations & applications for the Hubbard Brothers endowed Chair in the Biological Sciences. The College of Life Sciences and Agriculture was recently reorganized to include all the biological sciences in the University. It is made up of eight departments (Animal & Nutritional Science, Biochemistry, Entomology, Forest Resources, Microbiology, Plant Biology, Resource Economics & Community Development, and Zoology) with 150 faculty and 1,100 undergraduate majors and 150 graduate students in M.S. and Ph.D. programs. The teaching program in the biological sciences includes a core biological sciences curriculum for students majoring in all the life sciences, an interdepartmental program in biology as well as majors in each department, and general education and service courses for students in other programs.

The person appointed will coordinate efforts to plan and fund a major new biological sciences facility that will unify various aspects of contemporary biology within the College and will help articulate the value of such a building and program to federal, state and private funding sources. The College has a strong commitment to providing high quality undergraduate programs that include state-of-the-art, hands-on laboratory experiences and undergraduate research opportunities, and an increasing emphasis on graduate education and research. It is expected that the Hubbard Chair will lead in planning how these educational goals are to be developed in relationship to this new facility. The Hubbard Chair will also aid in structuring the future use of this endowed chair to best serve the needs of the biological sciences within the College. The person will be expected to teach one course a year in his or her area of expertise. The position will require the ability to work with faculty in a diverse array of disciplines, with administrators, with state and federal officials and the public.

We hope to attract a senior scientist with an outstanding record of achievement and broad experience in the biological sciences. The person must have a Ph.D. in the biological sciences and a strong record in research and teaching. Administrative experience is desirable. The term of the appointment is flexible, but it is anticipated that it will not exceed five years. This is a non tenure track position and rank will reflect qualifications.

Applications and nominations for the Hubbard Chair in the Biological Science will begin April 20, 1990. Letters of application addressing the candidate's suitability for this position, a c.v. and the names, addresses and telephone numbers of three references should be sent to Dr. James A. Stewart, Associate Dean, College of Life Sciences and Agriculture, Taylor Hall, University of New Hampshire, Durham, NH 03824. (Tel. 603-862-1452). UNH is an AA/EEO Employer.

UNIVERSITY OF BRISTOL

LECTURESHIP IN BIOCHEMISTRY

The post is available from 1st August 1990. Slight preference will be shown to candidates who have expertise in the application of molecular genetic and/or nmr techniques to biological problems, but the overriding consideration will be excellence of promise and achievement. Salary scale is either Lecturer Grade A £10,458 – £15,372 or Lecturer Grade B £16,014 – £20,469 depending on experience.

Further information may be obtained from: Professor J. B. Chappell, Department of Biochemistry, School of Medical Sciences, University of Bristol, Bristol BS8 1TD quoting ref: CYF/5, to whom applications, including a C.V. and the names of two referees, should be sent by the 30th of April 1990.

The University of Bristol is an equal opportunities employer.

MEDICAL

ONCOLOGIST/HMATOLOGIST

Outstanding opportunity for a well-trained *clinical investigator* to join the NIH-, ACS-supported Human Immunology and Cancer Program in the Department of Medicine, University of Tennessee Medical Center at Knoxville (UTMC/K). Major responsibilities include active participation in patient care with research emphasis on monoclonal Ig-associated human diseases (multiple myeloma, lymphoma and related diseases) and especially amyloidosis. The successful candidate will work in well-equipped, state-of-the-art basic and clinical research facilities including hybridoma/Mab, flow cytometry, protein and peptide chemistry, immunochemistry, molecular biology, and computer laboratories. Excellent patient care services include a special dysproteinemia clinic, clinical research nurse support and advanced imaging capabilities. BC/BE hematology/oncology and eligibility for state licensure required. Position requires a minimum of 3 to 5 years of postdoctoral clinical and research experience and ability to conduct innovative research involving molecular/cellular immunology. Tenure-track position available immediately. Excellent compensation (including fringe benefits) and academic rank commensurate with education and experience. The Knoxville area offers the scientific resources of the University of Tennessee and the Oak Ridge National Laboratory; recreational opportunities provided by the surrounding Great Smokey and Cumberland Mountains and extensive TVA lake system; and cultural amenities including a symphony and chamber orchestra, a major fine arts museum, opera and theatre. Letter of application, CV, and names and addresses of 3 reference sources should be sent to:

Alan Solomon, MD

Professor of Medicine and Head,

Human Immunology and Cancer Program



THE UNIVERSITY OF TENNESSEE
Medical Center at Knoxville

1924 ALCOA HIGHWAY

KNOXVILLE, TENNESSEE 37920

The University of Tennessee is an Affirmative Action/Title IX/Section 504 employer

FRIEDRICH MIESCHER-INSTITUT

Basel, Switzerland

The Institute seeks to fill the position of a

GROUP LEADER in molecular biology.

The suitable candidate must have a Ph.D. degree and several years post-doctoral experience. A background in nucleic acids chemistry would be helpful, but is not essential. The successful candidate will be expected to set up his/her own research group in an area of molecular biology that should ideally complement ongoing research within the Institute. Thus projects concerned with the investigation of the mechanisms of gene regulation, signal transduction or DNA repair, or with structure and function of nucleic acids would be welcome. The position will be available from 1st July 1990.

The Institute offers excellent research facilities and generous funding, as well as a great scope for interaction with the distinguished scientific community of Basel. The international atmosphere of the Institute makes for extremely friendly working conditions. No knowledge of German is required, although free German tuition will be provided.

Please write, including your CV, the names of three professional referees and a short research proposal to the Selection Committee, c/o Dr. Josef Jiricny, Friedrich Miescher-Institut, P.O. Box 2543, CH-4002 Basel, Switzerland. Tel. (061) 697 6661; FAX (061) 697 3976.

POSITIONS OPEN

ENVIRONMENTAL BIOLOGIST, VISITING ASSISTANT PROFESSOR. One-year sabbatical replacement. Responsibilities include environmental biology and some combination of conservation, botany, and introductory biology. Ph.D. required, appropriate visa status if applicable, commitment to undergraduate teaching and research; teaching experience preferred. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Search Committee, Department of Biology, Purdue University Calumet, Hammond, IN 46323.** *Purdue Calumet is an Affirmative Action/Equal Opportunity University.* Screening begins 1 May 1990.

FACULTY POSITION IN CARDIOVASCULAR RESEARCH

The Department of Pathology, Wayne State University School of Medicine, invites applications for an appointment at the **ASSISTANT PROFESSOR** level. Candidates should have experience in conducting research in the field of experimental hypertension and an interest in microcirculation. Candidates should have Ph.D. degree, postdoctoral training, and a strong commitment to developing independent research. Applications, including curriculum vitae, representative reprints, names of three references, and a brief description of research interest, should be sent to: **Joseph Wiener, M.D., Department of Pathology, Wayne State University School of Medicine, 540 East Canfield, Detroit, MI 48201.** *An Equal Opportunity/Affirmative Action Employer.*

FACULTY POSITION

Immediate opening for a tenure-track position in a newly formed interdepartmental Molecular Medicine Program at the University of Massachusetts Medical Center. Rank will be commensurate with ability and experience. The appointment will be in one of the basic science departments. The laboratories for the program are housed in a new building that contains approximately 80,000 square feet of modern research space. Core facilities for tissue culture, media preparation, DNA synthesis, protein sequencing and peptide synthesis, fluorescence-activated cell sorting, and transgenic mice are available. The position will be highly competitive with regard to start-up funds, laboratory space, and salary.

The program seeks an individual of outstanding research potential in the broadly defined area of eukaryotic molecular biology. Potential areas of interest include, but are not exclusive to, transcriptional regulation, RNA processing, oncogenes, and developmental biology. Applicants should send curriculum vitae, statement of research interests, and names of three references to: **Dr. Michael P. Czech, Director, Program in Molecular Medicine** or **Dr. Michael Green, Search Committee Chairman, University of Massachusetts Medical Center, 373 Plantation Street, Worcester, MA 01605.**

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS DEPARTMENT OF PHARMACOLOGY NEW YORK UNIVERSITY (NYU) SCHOOL OF MEDICINE

The Department of Pharmacology of NYU School of Medicine is seeking to fill several tenure-track positions at the **ASSISTANT/ASSOCIATE PROFESSOR** level within the next 2 years. We are particularly interested in attracting outstanding researchers with a Ph.D. or M.D. degree working in the fields of growth factors, receptors, signal transduction pathways, cell cycle control, differentiation, and molecular analysis of gene expression and function in general. Participation in the department's graduate teaching is expected. Salary is open and dependent upon experience and qualifications, and start-up funds are available.

The Department of Pharmacology is located in the medical science building at NYU Medical Center, and comprises at present a group of faculty with diverse research interests including the mechanism of action of growth factors, surface receptors, cytokines, and signal transduction pathways by pharmacological agents. The department has an active graduate training program and also participates in the Kaplan Cancer Center.

Applicants should send their curriculum vitae, names of three references, and a brief statement of research interests to: **Dr. Joseph Schlessinger, Department of Pharmacology, NYU Medical Center, 550 First Avenue, New York, NY 10016.** *NYU is an Equal Opportunity Employer.*

POSITIONS OPEN

UNIVERSITY OF HONG KONG SENIOR LECTURER/ LECTURER IN BOTANY

Applications are invited for a Senior Lectureship/Lectureship in the Department of Botany. Applicants should have an interest in one or more of the following areas: plant biochemistry, enzymology, mineral nutrition, or pollution studies.

Annual salaries (superannuable) are on the scales: Senior Lecturer, HK\$363,300 to HK\$488,040 (9 points); Lecturer, HK\$233,700 to HK\$390,600 (11 points). (Approximately US\$1=HK\$7.80 as at 2 March 1990.) Starting salary will depend on qualifications and experience. At current rates, salaries tax will not exceed 15% of gross income. Children's education allowances, leave, and medical benefits are provided; housing or tenancy allowances are also provided in most cases at a charge of 7.5% of salary.

Further particulars and application forms may be obtained from: **Appointments (37626), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, U.K.,** or from: **Appointments Unit, Registry, University of Hong Kong, Hong Kong, FAX: 852-8582549.** Closes 25 May 1990.

NUCLEAR MEDICINE FACULTY POSITION at Georgetown University Hospital, Department of Radiology. Interest/training in pediatric nuclear medicine desirable. Certification in diagnostic radiology preferred. Contact: **John W. Keyes, Jr., M.D., Director, Division of Nuclear Medicine, Georgetown University Hospital, Washington, DC 20007.** *Equal Opportunity/Affirmative Action Employer.*

Two **FACULTY POSITIONS IN NUTRITIONAL BIOCHEMISTRY.** The Department of Nutrition of Case Western Reserve University is undergoing major expansion at Mount Sinai Medical Center in Cleveland. Two positions will be opened in 1990 in nutritional biochemistry, at rank and salary commensurate with experience. Candidates are expected to develop independent research programs using modern techniques of stable isotope technology, biochemistry, or molecular biology. They will also participate in graduate teaching and in the training of graduate and postdoctoral students. Applicants should submit their curriculum vitae, representative reprints, brief description of future research plans and teaching interests, and three letters of reference to: **Dr. Henri Brunengraber, Chairman Designate, Department of Nutrition, Case Western Reserve University, Cleveland, OH 44106.** *Case Western Reserve University is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.*

FACULTY POSITIONS IN MOLECULAR NEUROBIOLOGY VOLLUM INSTITUTE FOR ADVANCED BIOMEDICAL RESEARCH

As part of a major expansion in molecular neurobiology and signal transduction at the Vollum Institute for Advanced Biomedical Research, several faculty positions are available in molecular biology, biochemistry, and physiology.

The Vollum Institute is a new state-of-the-art facility within the Oregon Health Sciences University (OHSU). Already a center of research excellence in neurobiology, the institute is located within the city of Portland, yet is conveniently located close to the beautiful mountains and ocean beaches of Oregon.

Both junior and senior scientists are being recruited to study mechanisms involved in signal transduction processes, hormone and neurotransmitter receptors, and ion channels.

Junior level applicants must have 3 to 5 years of postdoctoral experience and a publication record demonstrating innovative and independent research accomplishments.

Senior level applicants must be distinguished in his or her field and have a well-established independent research program with a strong publication record. The positions offered are highly competitive with regard to start-up funds, laboratory space, and salary.

Send curriculum vitae and statement of research interests along with names and addresses of three references to: **Richard H. Goodman, M.D., Ph.D., Director, Vollum Institute for Advanced Biomedical Research—L474, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201—3098.** *OHSU is an Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITIONS IN CELL, MOLECULAR, AND STRUCTURAL BIOLOGY

Applications are invited for tenure-track positions in the newly formed Department of Cell, Molecular and Structural Biology at Northwestern University Medical School. Positions are available at all levels from **ASSISTANT TO FULL PROFESSOR.** Applicants must have a Ph.D., M.D., or equivalent degree, with research experience in cell, molecular, or structural biology. Applicants will be screened with respect to their ability to carry on vigorous independent research and to participate in the various teaching programs administered by the department. Send complete curriculum vitae, brief description of research interests, and at least three letters of recommendation to: **Dr. Robert D. Goldman, Chairman, Department of Cell, Molecular and Structural Biology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.**

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

BIOCHEMISTRY AND MOLECULAR BIOLOGY. Permanent-track **FACULTY POSITION.** Excellent facilities, support, and research environment available for an established or highly promising research investigator. Level of appointment commensurate with qualifications. Preference given to candidate in the area of molecular structure/function relationships with an interest in teaching graduate and medical school biochemistry. Send curriculum vitae, bibliography, and three letters of reference by 31 May 1990 to: **Dr. David O. Toft, Department of Biochemistry and Molecular Biology, Mayo Medical School, Rochester, MN 55905.** *An Affirmative Action/Equal Opportunity Employer.*

FACULTY POSITION, PHARMACOLOGY AND TOXICOLOGY. The Department of Pharmacology and Toxicology at the University of Mississippi Medical Center invites applicants for a tenure-track position as **ASSISTANT OR ASSOCIATE PROFESSOR** in pharmacology and toxicology. A Ph.D. or M.D. with postdoctoral research experience is required. The successful candidate will be expected to develop or have an independent, competitively funded research program. Applicants with experience in all areas of pharmacology and/or toxicology are urged to apply; however, special consideration will be given to those with experience in one of the following areas: drug metabolism (molecular biology), renal pharmacology/toxicology, teratology, morphology/immuno-histochemistry, and endocrine pharmacology. Applications including curriculum vitae, outline of future research plans, and the names and addresses of three references should be sent to: **Dr. I. K. Ho, Professor and Chairman, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216—4505.** *The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/H/V.*

INVERTEBRATE ZOOLOGIST. Ithaca College seeks Ph.D. in invertebrate zoology for temporary 1-year position with option to enter search for permanent placement. Position requires teaching undergraduate courses including introductory biology, invertebrate zoology, and a nonmajors biology course. Position will be at level of **ASSISTANT/ASSOCIATE PROFESSOR**, beginning 15 August 1990. Send curriculum vitae, transcripts, and three letters of recommendation which specifically address teaching ability of the candidate to: **Mildred Brammer, Chairperson, Department of Biology, Ithaca College, Ithaca, NY 14850.** Search will continue until position is filled, but to ensure consideration, submit application by 20 April 1990. *Ithaca College is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION. To study cellular and molecular immunomodulatory effects of cytokines on T-cell response to cancer, and the influence biologic response modifier therapy has on the state of activation of these cells in the tumor. Applicants should have experience in molecular biology, polymerase chain reaction, and biochemistry. Position to begin summer of 1990. Please contact: **Dr. James H. Finke, Research Institute, NN1-24, Cleveland Clinic Foundation, 9500 Euclid Avenue, Cleveland, OH 44195,** telephone: 216-444-5186, FAX 216-444-9302.

CHAIRPERSON **Department of Physiology**

The State University of New York Health Science Center at Brooklyn is seeking nominations and applications for the position of Chair of the Department of Physiology. The Health Science Center (formerly Downstate Medical Center) includes one of the larger medical schools in the nation and is in the midst of major expansion of its basic science departments. The department currently has 17 state-funded, tenure-track faculty positions and 13 state-funded support staff positions. Considerable space and resources are available within the department, and the institution is prepared to make a major investment in recruitment of new faculty and development of the department. The applicant is expected to be an outstanding scientist with a strong ongoing research program in a contemporary area of physiology. This is a unique opportunity to develop and lead a department of excellence during a period of research growth for the entire institution.

Submit nominations or applications, with curriculum vitae, to: **Dr. Harold Lebovitz, Chair, Physiology Search Committee, Box 1, SUNY Health Science Center at Brooklyn, 450 Clarkson Ave., Brooklyn, NY 11203-2098.**

State University of New York
**HEALTH SCIENCE CENTER
AT BROOKLYN**

EO/AA Employer

DMC#A0170



RESEARCH SCIENTIST

Comparative Medicine

Baxter Healthcare Corporation is seeking a Research Scientist in Comparative Medicine. Applicants must have a Ph.D. or D.V.M., Ph.D. Industry experience is desirable.

Responsibilities include design, management and conduct of studies involving a wide range of product safety and efficacy testing. Animal model development and experimental surgery comprise a major portion of these activities. There is a strong emphasis on physiology and pathophysiology related to issues of biocompatibility.

In addition to a challenging environment, Baxter can offer a competitive salary and comprehensive benefits, including 401(k) and stock purchase program. For confidential consideration, please forward your curriculum vitae with salary history to: **Pam Miller, Human Resources Director (WG1-1N), Baxter Healthcare Corporation, Technology Park, Rte. 120 & Wilson Rd., Round Lake, IL 60073.** Equal Opportunity Employer.

Baxter

MOLECULAR BIOLOGIST

**Gerontology Research Center
National Institute on Aging
National Institutes of Health
Public Health Service
Department of Health and
Human Services**

The Intramural Research Program of the National Institute on Aging (NIA), Baltimore, Maryland invites nominations and applications for the position of an experienced molecular biologist to lead major research programs related to changes in gene regulation and expression in response to cellular damage, age and age-associated disorders. Current studies include heat shock gene expression, gene induction after DNA damage, and antiproliferative genes. Starting salary dependent on qualifications and experience. Candidates must be a U.S. citizen or permanent resident.

Further information may be obtained by contacting Ms. Barbara Hughes at 301-550-1733. An Application for Federal Employment (SF-171) with a current curriculum vitae and bibliography should be submitted to:

**Personnel Office
Gerontology Research Center
National Institute on Aging
4940 Eastern Avenue
Baltimore, Maryland 21224**

*Applications must be postmarked no
later than April 26, 1990.*



NIH is an Equal Opportunity Employer



ENVIRONMENTAL TEST DEVELOPMENT POSITIONS

EnSys, Inc. is developing proprietary on-site test kits for the rapid detection of toxic chemicals in air, soil, and water. We are situated in the Research Triangle Park and offer competitive salaries, benefits and equity participation in an exciting new venture.

IMMUNOASSAY DEVELOPMENT POSITIONS
Will be responsible for the research and development of immunoassays for environmental ligands. Positions relate to academic credentials and experience. A minimum of a B.S. degree in a scientific field is required. Experience developing and commercializing hapten immunoassays is desirable. For confidential consideration, send your resume to Ms. Marie Warren.

SENIOR DEVELOPMENT CHEMIST-AIR MONITORING

Will be responsible for the implementation of air monitoring badge technology, from the development and evaluation of prototype devices to manufacturing. A Ph.D. or M.S. degree in Chemistry is required with at least five years experience in product development. Qualified persons should forward their resumes to Dr. Kevin Carter.

EnSys, Inc.
P.O. Box 14063
Research Triangle Park, N.C. 27709

THE STATE UNIVERSITY OF NEW JERSEY RUTGERS

AGRICULTURAL MOLECULAR BIOLOGY AT RUTGERS, THE STATE UNIVERSITY OF NEW JERSEY

The Center for Agricultural Molecular Biology (AgBiotech) provides leadership in biotechnology to the state's agricultural, marine, and environmental industries. Scientists are housed in 10,000 net sq. ft. of new facilities and collaborate with faculty at the NJ Agricultural Experiment Station and throughout the University. AgBiotech will grow to 16 research groups and occupy a new building already in the design phase.

Applications are invited for an assistant/associate professor position in molecular genetics that will be split 70% research in the AgBiotech Center and 30% teaching in the Department of Biochemistry and Microbiology. The candidate will be expected to teach an undergraduate lecture and laboratory course in molecular genetics and supervise graduate students. The position will be tenurable in the Department of Biochemistry and Microbiology. Candidates should have post-doctoral experience in molecular genetics, agriculturally relevant research interests, and teaching experience. Salaries are competitive, and start-up funding will be provided for equipment and supplies.

Interested applicants should send curriculum vitae, an outline of their current and proposed research and the names of three referees before April 30, 1990 to **Dr. Peter R. Day, Professor of Genetics and Director, Center for Agricultural Molecular Biology, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Rutgers is an equal opportunity employer.**

POSITIONS OPEN

MOLECULAR BIOLOGIST/BIOCHEMIST

The Department of Biochemistry and Molecular Biology is seeking applications for a new 12-month tenure-track ASSISTANT PROFESSOR position. The successful candidate will: (i) be expected to develop a productive, externally funded research program in the area of molecular biological approaches to problems of biochemical interest; (ii) contribute to the department's teaching responsibilities; (iii) receive a joint appointment in the Chemistry Department; and (iv) advise graduate students. The earliest appointment date is 1 July 1990 and the deadline for receipt of applications is 31 May 1990. Excellent opportunities exist for research collaboration. Competitive start-up funds are available, and additional faculty openings in the area of molecular biology are anticipated. The qualified applicant must have a Ph.D. with evidence of extensive training in both molecular biology and biochemistry and postdoctoral experience. Interested individuals should submit a letter of application and curriculum vitae and have three letters of recommendation sent directly to: **Thomas E. Huntley, Chair, Search Committee, Department of Biochemistry and Molecular Biology, University of Minnesota, Duluth, School of Medicine, 10 University Drive, Duluth, MN 55812-2487.**

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

MOLECULAR GENETICIST/ PSYCHOPHARMACOLOGIST

Mayo Clinic/Mayo Medical School invites applicants for a FACULTY POSITION in the Department of Psychiatry and Psychology, in close collaboration with members in the Department of Pharmacology and/or the Department of Biochemistry and Molecular Biology. Candidates should have primary interests in major psychiatric disorders and be pursuing these interests with the methods of molecular genetics and/or molecular pharmacology. M.D. and clinical training in psychiatry are desirable but not required. Mayo will provide generous space and start-up funds in addition to an attractive package of salary and benefits. Academic rank will be determined by qualifications; established investigators are also encouraged to apply. Submit curriculum vitae with names and addresses of three or more references to: **Toshihiko Maruta, M.D., Chairperson of Search Committee, Department of Psychiatry and Psychology, Mayo Medical School, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.**

Experienced NMR SPECTROSCOPIST. The Duke University NMR Center is seeking applicants for a new staff position. Experience in protein NMR and a familiarity with computer programming and workstation networking desirable. The Duke University facility currently operates GE GN-500, GN-300 wide bore, QE-300, and Varian XL-300 spectrometers and is planning to add a 600-MHz spectrometer. Please send applications, curriculum vitae, and the names of three references to: **Leonard D. Spicer, Director, Duke University NMR Center, Box 3711 DUMC, Durham, NC 27710. Equal Opportunity Employer.**

POSTDOCTORAL POSITION in membrane transport available immediately at the University of Pennsylvania School of Medicine for individual with a recent doctoral degree in physiology, biochemistry, or cell biology. Research emphasis is on studies of structure and regulation of epithelial transport proteins using biochemical, molecular, and immunologic methods. Send curriculum vitae to: **Thomas Kleyman, M.D., Renal Section, University of Pennsylvania, 700 CRB, 422 Curie Boulevard, Philadelphia, PA 19104-6144. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION

Intracellular cholesterol transport regulation of cellular cholesterol metabolism. A postdoctoral position is available in laboratory studying intracellular cholesterol transport and homeostatic regulatory responses in cultured cells using combined biochemical, molecular, and somatic cell genetic approaches. Available summer of 1990. Send curriculum vitae and three references to: **Dr. Laura Liscum, Tufts University School of Medicine, Department of Physiology, 136 Harrison Avenue, Boston, MA 02111.**

POSITIONS OPEN

PHYSICIAN having a strong academic interest in vestibular and/or ocular motor systems is sought at the ASSISTANT/ASSOCIATE PROFESSOR level. A joint tenure appointment in the Department of Otolaryngology and Laryngology and the Department of Neurology, Harvard Medical School, is envisioned. Activities include: seeking patients complaining of imbalance, interpretation of vestibular diagnostic tests, and vestibular/ocular motor research projects. Candidate should demonstrate ability to generate grant funding. Please contact: **Conrad Wall, III, Ph.D., Vestibular Laboratory, or Robert Levine, M.D., Eaton Peabody Laboratory, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, MA 02114.**

PHYSICIAN-SCIENTIST. The Bone Marrow Transplant Program of the Department of Medicine seeks an M.D. or M.D./Ph.D. full-time physician-scientist at either the ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR level. The candidates must have a strong background in basic science and be actively engaged in investigation that will interact within the multidisciplinary clinical and basic research autologous and allogeneic BMT programs. The job description includes approximately an 80% allocation of time for research and 20% for clinical care. An appointment in an appropriate basic science department will be encouraged for appropriate candidates. Qualified applicants should submit their curriculum vitae to: **John S. Thompson, M.D., Chairman, Department of Medicine, University of Kentucky, 800 Rose Street, Lexington, KY 40536.**

PHYSIOLOGICAL ECOLOGIST, Colgate University. One-year ASSISTANT PROFESSORSHIP with possible renewal, beginning 1 August 1990. Teaching duties include an undergraduate course in animal physiology, introductory biology, and a research tutorial in the applicant's area of specialization. Ph.D. in hand or near completion, commitment to teaching and involving undergraduates in research. Review of applications will begin 16 April 1990. Send curriculum vitae, graduate transcripts, and three letters of reference to: **Dr. Nancy L. Pruitt, Department of Biology, Colgate University, Hamilton, NY 13346. An Equal Opportunity/Affirmative Action Employer. Applications from women and minorities are especially encouraged.**

Minneapolis: **PSYCHIATRIST.** The Psychiatry Service at the Minneapolis Department of Veterans Affairs Medical Center is seeking Board-certified or Board-eligible psychiatrists in a variety of positions including acute inpatient psychiatry and outpatient care, etc. In addition to clinical competence, demonstrated academic orientation (teaching, research, and publications) is desired. Salary range: \$77,000 to \$95,000 per year commensurate with training and experience. All staff psychiatrists at the Minneapolis Veterans Affairs have faculty appointments in the University of Minnesota Medical School, Department of Psychiatry. Responses to: **Office of the Chief of Psychiatry (116A), Department of Veterans Affairs Medical Center, One Veterans Drive, Minneapolis, MN 55417. Telephone: 612-725-2037.**

POSTDOCTORAL POSITION IN MOLECULAR GENETICS

Available immediately to study mutations and the regulation of gene expression in human genetic diseases. Approaches will include gene cloning, PCR sequencing, transfection analysis, and in vitro mutagenesis experiments. Ph.D. and/or M.D. degree with training in biochemistry and molecular biology essential. Salary negotiable. Send curriculum vitae and three letters of reference to: **Y. T. Chen, M.D., Ph.D., Department of Pediatrics, Duke University Medical Center, Box 3028, Durham, NC 27710. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL ASSOCIATE, RIBOZYMES

A position is available immediately to study catalytically active RNA's with a view to their development as inhibitors of HIV replication. Experience in the organic or physical chemistry or in the biochemistry of nucleic acids or oligonucleotides is desirable. Submit curriculum vitae and names and telephone numbers of three references to: **Dr. John Goodchild, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.**

An Equal Opportunity/Affirmative Action Employer, M/F/H.

POSITIONS OPEN

POLYMER SCIENCE AND ENGINEERING UNIVERSITY OF MASSACHUSETTS AT AMHERST

The Department of Polymer Science and Engineering is seeking to make a professorial appointment in the area of structure/morphology. The appointment will most likely be at the **FULL PROFESSOR** level but exceptionally promising candidates at the **ASSISTANT/ASSOCIATE** level will also be considered. Qualifications for a senior appointment include an international reputation in the morphology/structure of polymers field and a proven ability to attract external funding. Qualifications for appointment at a junior level include exceptional evidence of promise for establishing an internationally recognized research program and an appropriate level of postdoctoral, industrial, or previous academic experience. Salary commensurate with qualifications and experience. It is desired to fill the position by the beginning of the fall semester of 1990 or as soon thereafter as possible. Applications are requested by 1 June 1990, but the search will remain open until the position is filled. Send résumés, and the names of at least three references, to: **William J. MacKnight, Polymer Science and Engineering, University of Massachusetts, Amherst, MA 01003.** *The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION, PLANT MOLECULAR BIOLOGY. A position is available for 3 years to study genes involved in early endosperm development in rice with particular reference to the role of phytohormones. Applicants should be qualified in biochemistry or molecular biology and have an interest or experience in working with plants. *Applications from qualified members of minority groups and women are strongly encouraged.* Applicants should send curriculum vitae and three letters of reference to: **Dr. R. O. Morris, Biochemistry Department, 322A Chemistry Building, University of Missouri, Columbia, MO 65211.** Telephone: 314-882-5186.

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

POSTDOCTORAL POSITIONS. G protein-coupled receptors. Available now, a position involving the study of serotonin receptor subtypes. Develop biochemical assays to assess structure/activity relationships to design subtype-selective ligands. Close cooperation with medicinal chemists and opportunity for hands-on molecular modeling. Some molecular biological and protein work, especially eukaryotic expression in tissue culture and affinity labeling. Starting summer/fall, a position involving the study of alpha-2 adrenergic receptors. Cloning, mutagenesis, and expression to understand structure and pharmacology. Call or write to: **Dr. John Regan, Department of Pharmacology and Toxicology, University of Arizona, Tucson, AZ 85721.** Telephone: 602-626-2181. *An Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.*

POSTDOCTORAL POSITION

The Department of Neurosurgery at Thomas Jefferson University offers a postdoctoral position for a Ph.D. with experience in biomedical engineering and neurophysiology. The major emphasis of the research is on neurophysiology of motor disorders and electrical stimulation of the nervous system. Projects include the development of a synthetic analog model of human reflexes, analysis of electrical stimulation of the neural structures in man, and development of computer-simulated models of the nervous system. Salary in the \$35,000 range according to seniority and experience.

Send curriculum vitae and two letters of reference to:

Giancarlo Barolat, M.D.
Associate Professor
Department of Neurosurgery
Thomas Jefferson University
1025 Walnut Street, Suite 512
Philadelphia, PA 19107

Opportunities in Protein Biochemistry

Molecular Diagnostics, Inc. (MDI), Molecular Therapeutics, Inc. (MTI), the Institute for Arthritis and Autoimmunity (IAA), and Miles Institute for Preclinical Pharmacology (MIPP) are advanced research institutes which collectively comprise the newly-formed Miles Research Center in West Haven, CT. The Center functions as a major research resource of Bayer AG of West Germany and its subsidiary, Miles Inc. It is located in a newly-constructed facility which is the first of several such facilities to be built at the West Haven site.

MDI and MTI are engaged in biotechnology research; the newly-formed IAA is dedicated to the discovery of new targets for drug therapy. Areas of interest include molecular and cellular genetics, nucleic acid chemistry, cell biology, immunology and protein chemistry. The individual institutes function collaboratively with each other, and with other research entities of the Bayer group.

The Center is engaged in a major expansion of its staff and offers outstanding opportunities to candidates with appropriate credentials, as described below.

SENIOR SCIENTISTS

Applications are invited for entry level positions from individuals possessing a PhD degree and extensive experience with modern techniques for the purification and characterization of proteins. The successful candidates will be required to play a central role in our protein biochemistry group through participation in multi-disciplinary projects requiring the characterization of both natural and recombinant biological products.

RESEARCH SCIENTISTS

Applicants must have a BS or MS degree and 1 or more years of experience in protein purification and characterization, peptide chemistry, or enzymology.

The companies are located in a new research facility near New Haven and Yale University, and midway between Boston and New York City. They offer competitive salaries, excellent benefits, and a stimulating and challenging work environment.

Applicants should forward a curriculum vitae along with a statement of research interest and capabilities in confidence to: **Research Director, Molecular Therapeutics, Inc., 400 Morgan Lane, West Haven, CT 06516.**

An Equal Opportunity Employer M/F/H/V



**Research
Center**

POSITIONS OPEN

POSTDOCTORAL POSITION, OVARIAN GROWTH FACTORS. Position available immediately to study paracrine relationships in the ovarian follicle, ovarian growth factors, in particular. Candidates should have a Ph.D. or equivalent, preferably with experience in reproductive endocrinology, molecular biology, and cell culture. Send curriculum vitae and the names of three references to: **J. M. Hammond, M.D., Professor, Division of Endocrinology, M. S. Hershey Medical Center, Pennsylvania State University, P.O. Box 850, Hershey, PA 17033.** An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS. Available at the National Center for Toxicological Research (NCTR) to conduct research in the following areas: biochemical mechanisms of toxicity (Jack A. Hinson), LC/MS/MS (Walter A. Korfmacher), mass spectral methods for the detection of carcinogen-DNA adducts (Jackson O. Lay, Jr.), molecular analysis of mutagenesis (Robert H. Heflich), biochemical epidemiology (Fred F. Kadlubar), and biological applications of high-field NMR spectroscopy (Frederick E. Evans). Individuals interested in any of these areas should contact the investigator listed at: **NCTR, Jefferson, AR 72079-9502.** A competitive salary will be offered. Women and minorities are especially encouraged to apply.

POSTDOCTORAL POSITION. Available 1 September 1990 in development and evaluation of the Treisman workshop approach in introductory biology. This is a full-time, nonteaching position for 4 years, requiring service during the academic year, starting at \$19,000. College teaching experience and knowledge of educational research methods important. Send curriculum vitae and three letters of reference to: **Dr. Sidney B. Simpson, Head, Department of Biological Sciences, M/C 066, University of Illinois at Chicago, Box 4348, Chicago, IL 60680.** Application deadline is 1 June 1990. Women and minorities are encouraged to apply. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION in molecular immunology/molecular biology. Immediately available in a group investigating (i) developmental regulation of lymphocyte cell surface molecules as well as signal transmission through these molecules and (ii) the construction of immunoglobulin sequences and monoclonal antibodies through recombinant DNA techniques. Expertise in molecular biology desirable. Send curriculum vitae and letters of recommendation to: **Dr. William C. Raschke, La Jolla Biological Laboratories, The Salk Institute, P.O. Box 85350, San Diego, CA 92138.** Affirmative Action Employer, M/F/H/V.

POSTDOCTORAL POSITION. Investigate mechanisms by which biological functions can be linked with solid-state electrical devices to form novel biomedical sensing elements. Interdisciplinary doctoral research in either biomedical engineering, biophysics, biochemistry, electrochemistry, or electrophysiology desirable. Experience with membrane receptor protein functions and reconstitution of those functions into artificial membrane structures particularly applicable. Project offers close collaboration with industrial research laboratory. Send résumé to: **Dr. Y. Mendelson, Biomedical Engineering Department, Worcester Polytechnic Institute, 100 Institute Road, Worcester, MA 01609.** Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION, ONCOGENE EXPRESSION. A position is available in the Walther Oncology Center and/or Indiana University School of Medicine to study the trans-acting factors regulating the expression of the BCR and the BCR/ABL gene in Philadelphia¹ chromosome-positive leukemias. Requirements: M.D. or Ph.D., general background and experience in molecular biology. Experience with protein isolation and purification would be helpful but is not required. Send a copy of your curriculum vitae and the names of three references to: **Dr. David Leibowitz, Hematology/Oncology, IB 442, 975 West Walnut Street, Indianapolis, IN 46202-5121.** Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION, MOLECULAR ENDOCRINOLOGY. Immediately available position to study naturally occurring variants of human estrogen/progesterone receptor genes for which there are associated clinical problems. Strong background in molecular biology required. Send résumé and names of three references to: **Dr. Beth Schachter, Department of Obstetrics, Gynecology, and Reproductive Science, Box 1175, Mount Sinai Medical School, One Gustave Levy Place, New York, NY 10025.**

POSTDOCTORAL POSITION. Jacob Javits Junior Fellowship, sponsored by the NINCDS, available for 2 years, starting July 1990 or January 1991, to pursue studies on the molecular and cellular neurobiology of cerebrovascular disease. Opportunities available to work with investigators on the role of phospholipases, excitotoxins, Na⁺-K⁺ transport, neuropeptides, macromolecular growth factors, and neurogenic control of the cerebral circulation in stroke. M.D. or M.D./Ph.D. degree required. Compensation up to \$35,000 per year, based on experience. Contract: **Dr. Michael Moskowitz, Stroke Research Laboratory, Massachusetts General Hospital, Fruit Street, Boston, MA 02114.**

Two **POSTDOCTORAL POSITIONS IN INTERMEDIARY METABOLISM** in the Department of Nutrition of Case Western Reserve University are available as of 1 July 1990. Projects involve (i) regulation of ketone body metabolism [*J. Biol. Chem.* **263**, 18036 (1988)], (ii) development of noninvasive procedures for probing tissue metabolism in humans, and (iii) designing, synthesizing, and testing new compounds for intravenous nutrition. Candidates must be nonsmokers and should be proficient in enzymatic and GC/MS assays, the use of stable isotopes for metabolic studies, and, if possible, organic synthesis. Applicants should submit their curriculum vitae and three letters of recommendation to: **Dr. Henri Brunengraber, Chairman Designate, Department of Nutrition, Case Western Reserve University, Cleveland, OH 44106.** Case Western Reserve University is an Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

CALIFORNIA INSTITUTE OF TECHNOLOGY Junior Faculty Positions in Geological and Planetary Sciences

Applications are being accepted for tenure-track Junior Faculty positions in the Division of Geological and Planetary Sciences. Each initial appointment is for four years. It is possible that a candidate with exceptional qualifications may be considered for a more senior position. Outstanding individuals with a strong commitment to original research and teaching in any of the following areas are encouraged to apply.

Geodynamics: Physics of the solid Earth, employing observational, theoretical or experimental techniques. This includes studies of Earth structure, mantle convection, applications of GPS, rock mechanics, and mineral physics.

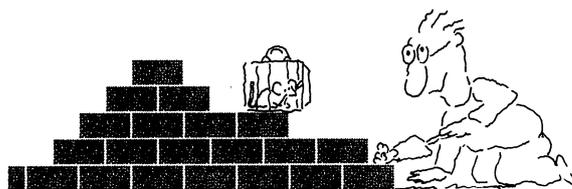
Geochemistry: Isotopic and chemical effects in the evolution and structure of the Earth and the terrestrial planets. This requires a deep knowledge of modern laboratory techniques and an ability to do theoretical and experimental studies based on sound geologic knowledge.

Cosmochemistry: Physical and chemical processes involved in the formation of the solar system and its development from the interstellar medium. A multidisciplinary approach and a sound background in chemistry or physics are needed.

Geology: All areas, but with a particular interest in either tectonics/geophysics/structural geology, especially an observational attack on current geologic processes, or the structure and origin of the deep continental crust.

We are especially interested in individuals whose research program naturally links two or more of these four areas. Individuals with potential for interactions with existing programs in the Division are encouraged to apply. A curriculum vitae including a list of publications and a brief description of proposed research activities should be sent to **Professor D. J. Stevenson, Chairman, Division of Geological and Planetary Sciences, 170-25 (APA), California Institute of Technology, Pasadena, California 91125.** The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer. Applications are encouraged from qualified women and minority candidates.

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SCIENCE



**SKIDMORE
COLLEGE**

ASSISTANT PROFESSOR

Applications are invited for a one-year, full-time faculty position at the Assistant Professor rank. Teaching responsibilities include a sophomore-level course in Cell and Molecular Biology, upper level courses in Genetics and Developmental Biology, and the supervision of undergraduate research projects. **Please send a cover letter, curriculum vitae, copies of graduate and undergraduate transcripts, and three letters of recommendation, by April 11 to:**

**Elaine Rubenstein, Chair
Department of Biology
Skidmore College
Saratoga Springs, NY 12866**

An affirmative action/
equal opportunity employer, M/F
We strongly encourage applications
from women and minorities.

Immunologist/Immunotoxicologist

The Procter & Gamble Company has an entry-level opening in Cincinnati, Ohio for an immunologist with Ph.D. or postdoctoral training. This opening is in the Human Safety Division at the Miami Valley Laboratories.

Research experience in immunology or immunotoxicology is required to establish a research program in the area of mucosal immunity with special attention directed towards understanding immune responses of the gastrointestinal tract. In addition, experience in the areas of molecular biology and/or cell biology techniques is desirable.

Procter & Gamble is a world

leader in the research, development, and manufacture of consumer products. We offer a highly competitive salary, a fringe benefit package in the top 5% of U.S. firms, and excellent opportunities for personal and career growth.

Candidates must be presently authorized to work in the U.S. on a full-time basis. Resumes, with a list of publications, should be sent to:

**Dr. T. J. Logan, Manager
Ph.D. Recruiting
Immunology Position
The Procter & Gamble Co.
Miami Valley Laboratories
P.O. Box 398707
Cincinnati, Ohio 45239-8707**

*Procter & Gamble is an
EQUAL OPPORTUNITY EMPLOYER*

Procter & Gamble

Microbiologist Pharmaceutical Research

□ Alcon Laboratories, Inc. is the leading pharmaceutical manufacturer of products for the diagnosis and treatment of ophthalmic disorders and is headquartered in Fort Worth, Texas.

□ We currently have an opening in our R&D Division for a Research Fellow of Microbiology. The successful candidate will direct and manage our microbiology resources for pharmaceutical development and antimicrobial research and provide Alcon with a supply of patentable antibiotics, anti-infectives, contact lens disinfectants and antimicrobial preservatives for development into new products.

□ The ideal candidate should have a PhD in microbiology, 8-10 yrs of pharmaceutical experience, 5 yrs experience managing research programs (preferably those involving antimicrobial agents or therapy), and proven interpersonal and leadership skills and written and oral presentation abilities.

An Equal Opportunity Employer - M/F/H/V

Resumes to **Mr. Faver**
Employment Dept. (T1-3)
Alcon Laboratories, Inc.
PO Box 6600
Fort Worth, Texas 76115

**SENIOR SCIENTIST —
CLINICAL CYTOMETRY:** The Immunocytometry Systems Division of Becton Dickinson develops and markets, on a worldwide basis, sophisticated flow cytometry instruments and reagent systems used for cell analyses. Primary responsibility of position is to head a research laboratory focused upon the clinical application of flow cytometry. Duties include conceptualization of new tests, performing feasibility of these tests in a clinical setting and transferring the technology to develop the test into an actual product. The attainment of both an MD and a PhD degree, along with scientific publications which demonstrate both clinical and research expertise in the following fields: biophysics, immunology, flow cytometry and hematology are all essential requirements in order to fulfill this position. Knowledge of the techniques and limitation of current cellular tests being performed in diagnosing and monitoring diseases which affect the formed elements in blood is also required. It is essential to have the ability to focus clearly on new applications of flow cytometry as applied

to clinical problems. The ability to interact with both engineers and computer scientists in coordinating instrumentation and reagent development is imperative. Must have the ability to work independently and possess leadership qualities in order to supervise a group team, as evidenced by the above requirement of documented publications of scientific manuscripts and, in addition, the ability to effect the development of integrated software and hardware systems in order to perform tests to be able to both monitor and diagnose disease. Any experience in this field will be accepted. The salary range for this position is \$47,400 to \$75,800, depending upon experience. Responses must be post-marked no later than May 7, 1990 in order to be considered. If offered employment, you must show you have the legal right to work in the United States. For immediate consideration, please send your resume and three detailed, written references to: Becton Dickinson Immunocytometry Systems, Professional Staffing, Dept. CA-ML, 2350 Qume Drive, San Jose, CA 95131-1807. An equal opportunity employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. We are seeking an individual with documented training in tumor cell biology to join a program designed to evaluate the prognostic and predictive value of intratumor cellular heterogeneity. Techniques being employed include immunohistochemistry, immunocytochemistry, flow cytometry, cell sorting, and assay by growth in nude rodents of the tumor-forming potential of specific cell types dissociated from primary human tumors. Experience in quantitation of in situ hybridization by fluorescent probes desirable. Starting date negotiable but 1 July 1990 preferred. Contact: **Dr. Betsy Ohlsson-Wilhelm, Division of Endocrinology, Pennsylvania State University College of Medicine, The M. S. Hershey Medical Center, P.O. Box 850, Hershey, PA 17033.** An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE/POSTDOCTORAL POSITION. Available for studies on the regulation of Ca^{2+} sequestration in the liver. Special focus on the mechanism by which second messengers release Ca^{2+} from intracellular storage sites. Biochemical and biophysical approaches in combination with molecular biology. Ambitious, enthusiastic, well-qualified biochemist interested in training in and contribution to this topic, please send résumé to: **Naomi Kraus-Friedmann, Ph.D., University of Texas (UT) Medical School at Houston, Department of Physiology and Cell Biology, P.O. Box 20708, Houston, TX 77225.** UT is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

Applicants with a Ph.D. in molecular biology with postdoctoral experience/master's degree in biology or biochemistry with at least 5 years of laboratory experience in protein chemistry and/or molecular DNA cloning and manipulation techniques are requested to apply for this **RESEARCH ASSOCIATE** position. The individual will be working as part of a research group focusing on developmental neuroendocrinology and will be involved in teaching and supervising the activities of other laboratory assistants, clinical fellows, and students besides being involved in developing certain techniques and carrying out parts of certain projects. Individuals who are interested should apply by sending a copy of their curriculum vitae and three reference letters to: **Dr. Sherin Devaskar, The Pediatric Research Institute, 3662 Park Avenue, St. Louis, MO 63110.** St. Louis University is an Equal Opportunity Employer, M/F/V/H.

RESEARCH ASSISTANT PROFESSOR. The successful candidate should have at least 2 years of postdoctoral experience and training in cellular immunology, tissue culture, and macrophage function. Expertise in molecular cellular biology is desirable. Candidate will collaborate with a group of investigators interested in the regulation of metabolic and immune responses at the cellular level by modulators such as endotoxin and ethanol. Starting date: July 1990. Send curriculum vitae and names and addresses of three references to: **Dr. John J. Spitzer, Professor and Head, Department of Physiology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112.** Affirmative Action/Equal Opportunity Employer.

ECOSYSTEMS RESEARCHER

The Ecosystems Center is searching for a postdoctoral or master's level candidate to participate in an ongoing modeling project on "The Responses of Terrestrial Ecosystems to Global Change." We seek a candidate who is organized, comfortable with ecosystem models, and knowledgeable about nutrient cycling in terrestrial ecosystems. The appointment will be for 1 year with a possible renewal. Submit résumé and names of three references to: **Ed Rastetter, The Ecosystems Center, Marine Biological Laboratory, Woods Hole, MA 02543.** Applications will be accepted until a suitable candidate is found. Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST III. Immediate opening for director of DNA probe laboratory, research and clinical. Emphasis on STDs, HPV, and HIV. Experience in molecular hybridization required. Ph.D. with postdoctoral training preferred. Professional staff opening. Send curriculum vitae and references to: **Dr. Nancy Kiviat, Pathology Department, Harborview Medical Center, 325 Ninth Avenue, Seattle, WA 98104.** Closing date: 15 May 1990. Harborview Medical Center and the University of Washington are Equal Opportunity Employers.

POSITIONS OPEN

ACADEMIC RESEARCH POSITIONS IN:

- Cell and molecular biology
- Developmental biology and aging
- Immunology
- Microbiology and virology
- Physiology and pharmacology

The Department of Dermatology at Harvard Medical School is pleased to announce the establishment of the Cutaneous Biology Research Center (CBRC) at the Massachusetts General Hospital, dedicated to basic science research. The CBRC will provide long-range funding for scientists working in the center. It will occupy 45,000 square feet of fully equipped laboratory space in a new multidisciplinary research facility. We are currently seeking candidates for appointment at the level of **PROFESSOR, ASSOCIATE PROFESSOR, AND ASSISTANT PROFESSOR.** Interested applicants should send curriculum vitae, a statement of research interests and goals, and the names of three references to:

**CBRC
Bartlett 5
Massachusetts General Hospital
Fruit Street
Boston, MA 02114**

The Massachusetts General Hospital and Harvard Medical School are Affirmative Action/Equal Opportunity Employers and specifically encourage applications from women and minorities.

RESEARCH SCIENTIST who will plan and perform in vivo and in vitro studies on gene activation by estrogens. Conduct research in estrogen receptors, reproductive biology, tissue cultures, and all major areas of recombinant DNA methodology. Small animal handling and use. Supervise/train all levels of technicians and students. Maintain/repair major items of laboratory equipment. Organize/write up results for publication. Ph.D. degree in biochemistry, 3 years of postdoctoral training and 1 year of research experience in molecular endocrinology; 40 hours per week; \$31,748 annual salary. Contact: **Texas Employment Commission, Houston, Texas,** or send résumé to: **Texas Employment Commission, Placement Unit, TEC Building, Austin, TX 78778, J.O. #5517773.** Ad paid by an Equal Opportunity Employer.

ASSOCIATE SCIENTIST

Michigan Biotechnology Institute (MBI) is recruiting for an associate scientist to work in microbiological aspects for biocatalyst development. Candidates for this position will possess a B.S. or M.S. in microbiology or related discipline, will have experience in handling microorganisms, including fermentation studies, and have a sound background in biochemistry and organic chemistry.

MBI is a private, nonprofit Michigan corporation dedicated to the development of industrial and environmental biotechnology in renewable resource utilization. A new 120,000-square-foot research and pilot plant facility is located in Lansing. MBI is an Equal Opportunity Employer and offers competitive salaries and fringe benefits. If interested, send résumé to:

**Director for Human Resources
Michigan Biotechnology Institute
P.O. Box 27609
Lansing, MI 48909**

STAFF RESEARCH ASSOCIATE III

WILDLIFE BIOLOGIST. \$2475 to \$3716 per month. Full-time, 5-year position in Liberia, West Africa. Under the direction of the University of California at Davis (UCD), Primate Research Center, provides technical, research, and collaborative support in the study of retroviruses of nonhuman primates. Requires field experience (under tropical conditions preferred) and the knowledge and experience necessary to carry out a trap and release program, as well as skills to collect and process blood specimens from wild nonhuman primates. Background in veterinary medicine helpful. Apply to: **UCD Employment Office, TB-122, Davis, CA 95616** for Job #0153 by 30 April 1990. Laboratory skills sheet required. Candidates should provide the names of three business references. For required application material, telephone: 916-752-0531, Monday through Friday, between 10:00 a.m. and 2:00 p.m. Equal Opportunity Employer.

POSITIONS OPEN

RESEARCH SCIENTIST. Research into interphase boundary structure and mechanisms of precipitation of the omega phase in Al-Cu-Mg-Ag alloys. Utilization of transmission and other electronic microscopes. Utilization of crystallography with respect to aluminum alloys. Investigation into omega phase in aluminum/copper/magnesium/silver alloys and interphasial studies. Requirements: Ph.D. physics of materials science and 2 years of experience as researcher related to job with expertise in analytical electron microscopy and x-ray diffraction techniques, strong background in crystallography and interphase boundary structure with familiarity with Al alloys, and outstanding academic background and publication record. Forty hours per week; \$25,000 per year. Submit résumé or curriculum vitae to: **Pittsburgh East Job Service, 6206 Broad Street, Pittsburgh, PA 15206, J.O. #4143843.**

RESEARCH ASSOCIATE/BIOCHEMIST AND/OR JUNIOR FACULTY POSITION

Multidisciplinary group interested in developing novel therapeutic strategies for melanoma therapy based on cytotoxic melanin precursors seeks a Ph.D. chemist/biochemist with experience related to melanin synthesis, intermediary metabolism, or anti-melanoma pharmaceutical development. Unique opportunity for creative scientists to work independently and in collaboration with a team of organic chemists, biochemists, and cell biologists in a well-funded laboratory with modern facilities for synthetic, organic, and radiochemical chemistry; analytical biochemistry; tissue culture; and in vivo animal studies. Competitive salary commensurate with education and experience. *The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.* Interested applicants should send curriculum vitae to:

**William D. Bloomer, M.D.
Professor and Chairman
Department of Radiation Oncology
University of Pittsburgh
230 Lothrop Street
Pittsburgh, PA 15213**

INSTITUTE FOR SPACE AND TERRESTRIAL SCIENCE TORONTO, CANADA

PROJECT SCIENTIST. Human performance in space laboratory. Applications are invited for a project scientist with a Ph.D. in physics or electrical engineering and practical experience with electronics and computers (Unix) to research in the laboratory on the magnetic activity of the human brain associated with visual and auditory functions using a seven-channel SQUID neuro-magnetometer and shielded room. Inverse problem experience is an advantage. Salary commensurate with qualifications. Excellent benefits. Applications, with curriculum vitae and names of three references, should be sent to: **Director, Human Resources, Institute for Space and Terrestrial Science, 4850 Keele Street, North York, Ontario, Canada M3J 1P3,** by 7 May 1990. Please quote reference number **HPL-9004.** *The Institute for Space and Terrestrial Science is an Equal Opportunity Employer.* In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

SPACE STUDIES SENIOR PROGRAM OFFICER 50% TIME

The Space Studies Board of the National Research Council (NRC/SSB) is seeking a half-time senior program officer to manage a committee on microgravity science. Responsibilities include development and direction of technical and policy studies and production of reports for federal agencies. Position is half time with potential increase to full time. Requires Ph.D. or equivalent in physical sciences or related discipline; at least 5 years of experience related to space science, ability to analyze issues, assess and prepare reports and technical papers; familiarity with current research activities in space science; ability to manage committees and maintain relationships with sponsoring agencies; excellent communication skills. Experience with policy issues and with technical program management preferred. We offer a salary commensurate with experience and an exceptional benefits package. Please send résumé in confidence to: **NRC/SSB, HA 584 (RH), 2101 Constitution Avenue, N.W., Washington, DC 20418.** Equal Opportunity Employer.

POSITIONS OPEN

SENIOR TECHNICIAN NUCLEIC ACID ANALYSES LABORATORY OF MOLECULAR SYSTEMATICS

The Smithsonian Tropical Research Institute, located in the Republic of Panama, seeks senior technician to manage one of its three laboratories utilizing molecular methods to study evolutionary patterns and processes. M.S. degree or equivalent with substantial experience in both laboratory techniques (RFLP analyses, PCR, and DNA sequencing) and data analysis (systematic and statistical analyses of DNA RFLP and DNA sequence data) required. The successful candidate will be part of a growing program whose goal is to bring modern biochemical methods to the study of diverse tropical biotas. Curriculum vitae, description of research interests and abilities, and two confidential letters of recommendation should be sent directly to: **Eldredge Bermingham, Smithsonian Tropical Research Institute, APO Miami 34002-0011**. Review of applications will begin 1 May 1990 and continue until position is filled. The successful applicant will most likely be hired to fill a federal position at the GS-9 level. *Equal Opportunity Employer. Employment not limited to U.S. citizens.*

DEPARTMENT OF LABORATORY MEDICINE AND PATHOLOGY, MAYO CLINIC STAFF POSITION IN QUANTITATIVE CYTOLOGY

The Department of Laboratory Medicine and Pathology invites applications from pathologists with an interest in the application of quantitative image analysis techniques. In addition to on-going responsibility for flow cytometric measurements of DNA ploidy and S-phase in the Section of Clinical Immunology and Cell Kinetics, the candidate would be expected to develop application of quantitative microscopy for DNA measurements in tumor biopsies. Candidates with research interests in cell kinetics and clinical interests in genitourinary tumors are encouraged. Applicants should send curriculum vitae, bibliography, and brief description of their clinical and research interests to:

Jerry A. Katzmann, Ph.D.
Search Committee
Room 168, Hilton Building
Mayo Clinic
200 First Street, S.W.
Rochester, MN 55905

The Mayo Clinic/Foundation is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. Available for individual with training in molecular neurobiology to study molecular basis of sleep, mammalian hibernation, and/or circadian organization. Under the direction of W. C. Dement and H. C. Heller, a multidisciplinary group, with expertise in neurochemistry, receptor pharmacology, neuroanatomy, chronobiology, and neurophysiology, has been assembled to understand basic mechanisms underlying sleep and circadian organization. Send curriculum vitae and names of references to: **Thomas S. Kilduff, Ph.D., Sleep Research Center, Department of Psychiatry, TD-114, Stanford University School of Medicine, Stanford, CA 94305.**

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS

The Eppley Institute at the University of Nebraska Medical Center (UNMC), one of 15 National Cancer Institute-designated Laboratory Cancer Research Centers, has excellent training opportunities in the areas of cancer, cellular, and molecular biology. Funds are available through an NIH training grant, individual grants, and other sources. Predoctoral stipends are \$11,000 per year, plus tuition remission and medical insurance. Postdoctoral fellowship stipends are commensurate with experience and are nationally competitive. Prospective postdoctoral fellows should forward curriculum vitae, three letters of recommendation, and a brief description of research interest. For complete information, prospective predoctoral students and postdoctoral fellows should contact: **Director, Eppley Institute, UNMC, Omaha, NE 68188-6085.** *Affirmative Action/Equal Opportunity Employer.*

Postdoctoral Position

The protein engineering group within the Central Research Laboratories of CIBA-GEIGY Ltd. in Basel/Switzerland is seeking a highly motivated and creative individual with a Ph.D. in biochemistry or related science.

Successful candidates will have extensive experience in enzyme purification and characterization, expertise in kinetic analysis of enzyme reactions and knowledge of enzyme mechanisms. Familiarity with recombinant DNA techniques is desirable but not essential.

Research will focus on the purification and characterization of engineered enzymes. This work will be a part of a multidisciplinary study of enzyme-structure function involving efforts in mutagenesis, X-ray crystallography and computer-assisted molecular modeling. Publication of research findings is highly encouraged. A permanent position at Ciba-Geigy as research associate may be considered.

Applicants should send curriculum and resume to Dr. E. Sturm, CIBA-GEIGY AG, R-1060.334, Postfach, CH-4002 Basel/Switzerland.

CIBA-GEIGY

Research Assistants in Molecular Genetics

The Department of Molecular Genetics Research at Pfizer Central Research has expanded in recent years to play a vital role in drug discovery research. As a result, there are currently several openings for skilled molecular biologists to join our department in Groton, Connecticut. Research Assistants will work with a group of highly motivated researchers developing innovative biotechnology applications for the advancement of drug discovery research programs.

You should have an MS or BS degree or the equivalent with relevant laboratory research experience and be skilled in recombinant DNA techniques. A background in cloning and expression of cDNA sequences is highly desirable.

In addition to a stimulating scientific environment, we offer a competitive salary and benefits package and generous relocation assistance. Our expanding state-of-the-art facilities, located on the Connecticut shore, provide a collegial, team-oriented work environment. Qualified applicants may send a resume, description of research experience, and names of three references to: **Mr. Kym Goddu, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.** An equal opportunity employer.



STERLING RESEARCH GROUP

Discover Molecular Virology At Sterling Research Group.

Sterling Research Group has an immediate opening in the Virology Department. We are looking for a scientist with experience in virology or molecular biology, who has an interest in applying basic research in this area to the discovery of novel antiviral therapies.



S E N I O R
R E S E A R C H
B I O L O G I S T

The successful candidate will possess a Ph.D. degree in molecular biology, biochemistry or virology with relevant postdoctoral experience. The scientist will be expected to establish molecular-based systems to discover and develop unique, specific targets for antivirals directed toward human viruses. Experience in gene regulation, protein expression and/or purification would be beneficial, although not essential. Supervision of other scientific staff is expected and strong interpersonal and communication skills are required.

In exchange for your talents, we offer a competitive salary and benefits package. For confidential consideration, please send your resume to: RS-017, Sterling Research Group, A Division of Sterling Drug Inc., 81 Columbia Turnpike, Rensselaer, NY 12144. An Equal Opportunity Employer M/F/H/V.



**STERLING
RESEARCH GROUP**

A Division of Sterling Drug Inc.
A Subsidiary of Eastman Kodak Company

Build A Future With Sterling.

CANCER RESEARCH IN KANSAS

Academic Research and Training
Supported by a Grant from

THE WESLEY FOUNDATION OF WICHITA, KANSAS

A limited number of training opportunities at both the postdoctoral and predoctoral level in a variety of research areas are available in a newly-funded interinstitutional and interdisciplinary program sponsored by the University of Kansas, Kansas State University, the University of Kansas Medical Center—Kansas City and the University of Kansas School of Medicine—Wichita. Efforts are underway to identify Wesley Foundation Scholars to participate in externally funded basic and clinical research programs at these Kansas academic research institutions. Major areas of cancer research supported by this program include: a) Molecular Biology and Cell Growth Regulation, b) Anti-Cancer Drugs and Multiple Drug Resistance, and c) Tumor Immunology and Host Resistance. Qualifications for these positions include a strong interest in cancer related research and excellence in previous academic training. Postdoctoral positions require an M.D., Ph.D., or equivalent degree. Stipends for these positions are highly competitive. For further information in the following areas, please write to:

Molecular Biology and Cell Growth Regulation

Donald J. Roufa, Ph.D.
Division of Biology
Ackert Hall
Kansas State University
Manhattan, KS 66506

Anti-Cancer Drugs and Multiple Drug Resistance

Valentino J. Stella, Ph.D.
School of Pharmacy
3006 Malott Hall
University of Kansas
Lawrence, Kansas 66045-2504

Tumor Immunology and Host Resistance

David C. Morrison, Ph.D.
Dept. of Microbiology
KU Medical Center
39th and Rainbow Blvd.
Kansas City, KS 66103

The Kansas University system is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIP AT NIH

National Institutes of Health, Public Health Service, Fellowship in Cell Biology, Electrophysiology as related to Alzheimer's disease and Down syndrome (trisomy 21). The Laboratory of Neurosciences at the National Institute on Aging, NIH, invites application for a Staff Fellowship position to study gene regulation of neuronal development and function. The electrical, histological and metabolic properties of neural tissue from mouse trisomy 16 (a model of trisomy 21), human trisomy 21, and appropriate transgenic and transfected cell models are examined in vivo and in tissue culture. Studies include: measurements of voltage- and neuro-transmitter-gated ionic currents in cultured cells, using intracellular recording and patch clamp, and tissue culture techniques; examination of neuronal growth and synaptic function in cultured cells; transplantation of fetal brain tissue from trisomic brains into brains of normal mice; examination of regulation of gene expression, using in situ hybridization and immunocytochemistry. The NIH Staff Fellowship is a tenure track position located in Bethesda, Maryland and salary is commensurate with qualifications. Send Curriculum Vitae and two letters of reference to:

**Dr. Stanley I. Rapoport, Chief
Laboratory of Neurosciences
National Institutes of Health
Building 10, Room 6C-103
9000 Rockville Pike
Bethesda, MD 20892**



NIH is an Equal Opportunity Employer

DEPARTMENT OF SURGERY POSTDOCTORAL RESEARCH FELLOWSHIPS METROHEALTH MEDICAL CENTER CASE WESTERN RESERVE UNIVERSITY

The Surgery Department at MHMC/CWRU announces the availability, beginning July 1, 1990, of several Postdoctoral Research Fellowships. An M.D. degree is required for these positions.

A fundamental goal of basic research in the Surgery Department is the application of basic biochemical, immunological, biophysical, and morphological methods to important biological questions related to the surgical disciplines. Special areas of methodology currently emphasized in the Department include: a wide range of fluorescence methods (steady-state, lifetime, polarization, FRAP, phosphorescence) basic immunology and cellular immunology, differential scanning calorimetry, and FPLC and HPLC protein, peptide, and phospholipid isolation and characterization. Extensive facilities also exist in the Department for tissue culture & basic molecular biological studies.

Applicants experienced in biophysical chemistry, membrane biophysics, spectroscopy, immunology, and molecular biology who are interested in applying these disciplines to model as well as biological systems are encouraged to apply. Clinically trained applicants interested in gaining the expertise to apply basic methodology to biomedical problems should also consider applying. Specific areas of research will depend on the Fellow's interest as well as those of the Department. Substantial independence in the execution and development of research problems will be afforded each fellow. Stipends are approx. \$27,000.

Interested applicants should forward their CV's to:

**Martha M. Sarasua, M.D., Ph.D.
Director, Surgery Research Laboratories
MetroHealth Medical Center
3395 Scranton Road, #R416
Cleveland, OH 44109**

MetroHealth Medical Center & Case Western Reserve University are both Equal Opportunity Employers which encourage applicants from qualified minority groups and women.

NOVA PHARMACEUTICAL CORPORATION, a leading research and development company located in Baltimore, MD, has an immediate need for an

Immunologist

Your responsibilities, as Group Leader, will be to manage a small group (2 PhD's, 1 post doc and 5-7 technical associates) in the assessment of potential therapeutic agents to treat inflammation, including whole animal models of autoimmune diseases.

We are looking for a mature, professional researcher who is well grounded in cellular and humeral immune responses. The ideal candidate will possess a PhD in Immunology, Cell Biology, Biochemistry or related discipline and several years of experience as an independent scientist, including supervision.

NOVA PHARMACEUTICAL CORPORATION is a small and growing company. We offer a challenging work environment, a competitive salary and benefits package, relocation benefits and stock options.

If you are interested in a unique opportunity to establish the immunology group at Nova, please send your CV along with the names of three references and salary history to:

**Nova Pharmaceutical Corporation
Personnel-GL/LS
6200 Freeport Centre
Baltimore, MD 21224-2788**

Nova is an equal opportunity employer offering a smoke-free work environment.



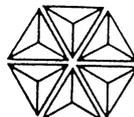
ORGANIC CHEMIST

Chemical Process Development

The Industrial Division of Bristol-Myers Squibb Company has an immediate opportunity for a PhD Organic Chemist to work in its Chemical Development Laboratories at its Syracuse, NY facility. You will work in process research and development and assist in the scale-up of processes into the pilot plant. The chemistry under investigation includes that of antibacterial, antiviral agents, as well as CNS drugs.

We seek a PhD Organic Chemist with approximately 5 years of industrial chemical development experience. The ability to interact with analysts, chemical engineers and operators as well as the ability to supervise technical staff is essential.

We offer an excellent salary, comprehensive benefits including relocation assistance, and a professional working environment conducive to career development. For prompt, confidential consideration, forward your resume with salary history and requirement to: **MANAGER OF EMPLOYMENT**



**BRISTOL-MYERS SQUIBB COMPANY
INDUSTRIAL DIVISION**
P.O. Box 4755, Syracuse, New York 13221-4755
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**POSITION AVAILABLE
DIRECTOR, MEDICATIONS DEVELOPMENT DIVISION
NATIONAL INSTITUTE ON DRUG ABUSE
ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES**

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, Medications Development Division, National Institute on Drug Abuse.

This is a Senior Executive Service position in the career civil service, with an annual salary range of \$71,200 to \$79,200. Physicians may also be eligible for a Physicians' Comparability Allowance of up to \$20,000 per year. The position is located in Rockville, Maryland.

The Director, Medications Development Division provides programmatic, administrative, and general management of the five branches of the Division: the Biometrics Research Branch, the Clinical Trials Branch, the Regulatory Affairs Branch, the Chemistry and Pharmaceutics Research Branch, and the Pharmacology and Toxicology Branch. The Director is also responsible for coordinating the activities and medications development requirements of the three ADAMHA Institutes into the scientific and management activities of the Division and maintains close contact with designated medications development staff at the National Institute on Alcoholism and Alcohol Abuse and the National Institute of Mental Health.

The Director is also responsible for maintaining close working relationships with senior staff at the Food and Drug Administration on matters relating to operational and scientific procedures involved in medications development as well as the development of policy affecting ADAMHA's programs. Additionally, the Director provides authoritative advice and consultation to senior agency officials on a wide range of matters pertaining to the treatment of brain and behavior disorders and the pharmacological evaluation of new treatment agents.

Minimum qualifications requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's degree or higher degree in an academic field related to the health sciences pertinent to the work of the position. Candidates must demonstrate evidence of progressively responsible experience in managing large, complex science/research programs in the biomedical/behavioral areas; supervising or collaborating with senior-level scientists in academia, private industry, or the Federal Government; extensive current knowledge of research methodology in the biomedical, behavioral, pharmacological, or clinical sciences in areas relevant to drug abuse.

Further information about the position and qualifications requirements may be obtained by contacting Ms. Leslie Everheart at (301) 443-5030. An SF 171 (Application for Federal Employment) accompanied by a current curriculum vitae and bibliography should be submitted to Ms. Everheart at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Complete Application material (including the SF 171) must be postmarked by the closing date of April 30, 1990. *Resumes are not acceptable for entrance into the Senior Executive Service.*

Applications from women and minority group members are encouraged.

THE ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION IS AN EQUAL OPPORTUNITY EMPLOYER

CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control. The program provides for: Participation in the DCPC Cancer Prevention and Control Academic Course; Working at NCI directly with individual preceptors on cancer prevention and control projects; Field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1991. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY

M.D. or D.D.S. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current ECFMG/FMGEMS certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D., Dr. P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and application catalog, send a postcard or letter with your name and home address to:

**Douglas L. Weed,
M.D., M.P.H., Ph.D., Director
Cancer Prevention
Fellowship Program
Division of Cancer
Prevention and Control
National Cancer Institute
Executive Plaza South, T-41
Bethesda, MD 20892**



Further Inquiries: Mrs. Barbara Redding,
(301) 496-8640 or 496-8641.

**Deadline for receipt of Applications:
September 1, 1990**

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FELLOWSHIPS

The Irvington Institute for Medical Research will award up to ten **POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY** in basic immunologic research for 3 years, in a laboratory or university within the United States, beginning 1 July 1991. Applicants holding M.D.'s, Ph.D.'s, or M.D./Ph.D.'s are encouraged to apply. Those having no more than 3 years of laboratory experience following the awarding of their degrees will receive priority. Successful candidates are offered a 3-year incremental stipend of \$22,000, \$24,000, and \$26,000 for years 1, 2, and 3; plus \$2,000 annually paid to host institution for overhead expenses. **Deadline: 15 August 1990.** For application kit, call or write; **Fellowship Coordinator, The Irvington Institute for Medical Research, 120 East 56th Street, #330, New York, NY 10022. Telephone: 212-758-8250. FAX: 212-758-8968.**

COURSES AND TRAINING

Manhattan College Biotechnology Program will present, **A SHORT COURSE IN BASIC TISSUE CULTURE, 9:00 a.m. to 5:00 p.m., 4 to 8 June 1990.** Lectures, hands-on procedures, and demonstrations covering the essential aspects of culturing mammalian cells; contemporary methods in identifying cells and cell proteins. Registration deadline: 1 May 1990. Contact: **Dr. Frances M. Cardillo, College of Mt. St. Vincent, Biotechnology Program, 6301 Riverdale Avenue, Bronx, NY 10471. Telephone: 212-549-8000, Ext. 367.**

POSTDOCTORAL/GRADUATE TRAINING IN INSECT NEUROBIOLOGY

The Arizona Research Laboratories (ARL) Division of Neurobiology, a research unit (13 tenure-track and research faculty, 40 trainees and staff) devoted to cellular, developmental, and molecular neurobiology and neuroethology of insects, invites inquiries from prospective postdoctoral fellows and predoctoral students. Inquiries, including résumé, statement of interests and plans, and names and addresses of three references, should be sent to: **Dr. John G. Hildebrand, Director, ARL Division of Neurobiology, 611 Gould-Simpson Building, University of Arizona, Tucson, AZ 85721. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.**

THE UNIVERSITY OF CHICAGO

The Parke-Davis Graduate Pre-Doctoral Fellowship in Cardiovascular Pathology

Experimental & Cellular Pathology

Applications are invited for the Parke-Davis fellowship in Experimental Pathology at The University of Chicago Pritzker School of Medicine. The award is for 3 years of support leading to the PhD degree in Pathology.

Candidates should expect or possess a Bachelor's Degree in Biochemistry, Molecular/Cell Biology or a related discipline with an outstanding academic record and excellent GRE scores. The research program is focused upon vascular biology and the molecular and cellular mechanisms of atherosclerosis, particularly lipoprotein structure, function, and metabolism, and endothelial cell and molecular biology.

To be considered please send a letter outlining your interests, a copy of transcripts, GRE scores if available, and 3 letters of recommendation, to: **PETER F. DAVIES, PhD, Dept. of Pathology, Box 414.**



THE UNIVERSITY OF CHICAGO

5841 S. Maryland Ave.
Chicago, IL 60637

Interested students are encouraged to call for further information and a booklet describing the Programs in Experimental Pathology: 312-702-1265.

An Affirmative Action/Equal Opportunity Employer

MEETINGS

**SCANNING 90
17 to 20 April 1990
Hyatt Regency Crystal City
Arlington, Virginia**

Sponsored by the Foundation for Advances in Clinical Medicine and Science (FACMS) and SCANNING, the 3-day scientific program includes technical sessions, workshops, exhibits, and posters in analytical, biological, imaging, and materials sciences.

Organizing Committee: Alan Boyde, Chairman, University College London; Peter J. Lea, Co-chairman, University of Toronto; Dwight Cavanagh, Georgetown University Medical Center; Richard J. Colton, Naval Research Laboratory; James V. Jester, Georgetown University Medical Center; Michael T. Postek, National Institute of Standards and Technology; Joel M. Schnur, Naval Research Laboratory; James A. Sprague, Naval Research Laboratory; and William P. Wergin, Natural Resources Institute.

For registration information, contact: **Mary K. Sullivan, FACMS, Inc., The JBI Building, Box 832, Mahwah, NJ 07430. Telephone: 201-818-1010. FAX: 201-818-0086.**

SITUATIONS WANTED

BIOCHEMIST. Grants, publications. Experience: teaching biochemistry. Research enzymology, proteins, DNA-protein interactions. DNA repair, cell culture, rDNA techniques. Seeking teaching/research position. **Box 29, SCIENCE.**

BIOCHEMIST, Ph.D., 4 years of postdoctoral experience isoprenylated proteins, purification, cholesterol metabolism, cell proliferation tissue culture. Seeks research position in industry/academia. **Dr. Rao S., 15 Washington Place, Apt. 6N, New York, NY 10003.**

Possibly the world's only Ph.D. biologist employed as direct marketing consultant seeks corporate/NPO/university executive position. Organized, analytical, entrepreneurial. **Box 7, SCIENCE.**

MARKETPLACE

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FAX 915-694-2387 3112A W. Cuthbert, Midland, TX 79701**

POSITIONS AVAILABLE

The International Laboratory for Research on Animal Diseases (ILRAD), is an internationally funded, major institution with the mandate of developing improved methods to control two important diseases of livestock, trypanosomiasis and theileriosis. The multidisciplinary research program includes biochemistry, molecular biology, immunology, cell biology, pathology, parasitology, electron microscopy and entomology with appropriate supporting units. Applications are invited for the positions of:

Research Associate—Electron Microscopy (Ref: RA/90/1)

A position is available in the Electron Microscopy Unit for an experienced technician in electron microscopy. The responsibilities include maintenance of a Zeiss EM10 electron microscope, and provision of assistance and training to staff in established procedures of electron microscopy including immunoelectron-microscopy. The successful applicant will collaborate with research groups studying endocytosis in trypanosomes, host cell-parasite interactions in theileriosis and the aetiology of the anaemia induced by infection with trypanosomes. Candidates will have a degree in biological sciences or an advanced technical qualification and over five years of relevant experience in a senior position in an electron microscopy laboratory studying biological processes.

Post-Doctoral Scientist—Molecular Genetics (Ref: PD/90/2)

A position is available in a research group studying the genetic mechanisms underlying the resistance of certain breeds of cattle to the pathogenic effects of trypanosome infections. The Laboratory maintains families of resistant and susceptible breeds of cattle and a crossbreeding program has been initiated with a view to mapping of relevant genes. This is part of an international collaborative effort to develop a map of the bovine genome. Experience of techniques for separation of large DNA fragments will be an advantage. The successful candidate will be expected to develop DNA markers and organize their application. Applicants will have a Ph.D. in a relevant area of genetics/molecular biology and experience in manipulative and analytical DNA technologies.

Post-Doctoral Scientist—Cell Biology—Haemopoiesis (Ref: PD/90/3)

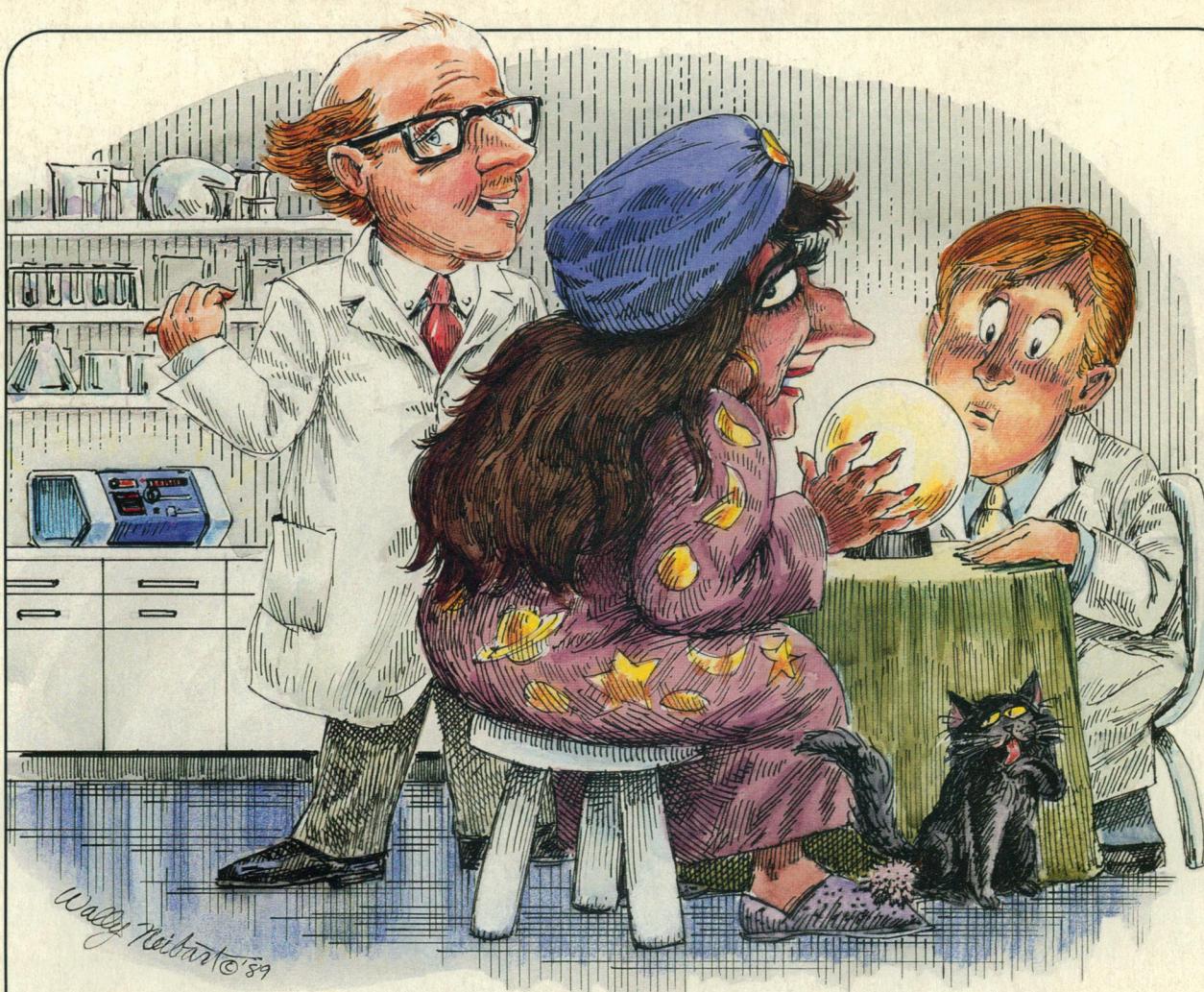
A post-doctoral position is available to study the aetiology of the anaemia induced in cattle by infections with salivarian trypanosomes. Such studies would be at the cellular and molecular levels and relate directly to the elucidation of the basis of the genetic resistance of certain breeds of cattle to trypanosomiasis. Applicants will have a first degree in biology and a Ph.D. Preference will be given to candidates with research experience in cell biology and control of growth and regulation of mammalian cells.

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A position is available within a group studying the bovine cellular immune response to infection with the intracellular protozoan parasite *Theileria parva*. A major part of the immunity to this parasite is considered to be due to the cytotoxic T cell response in infected cattle. The group's activities include identification of parasite antigens recognised by cytotoxic T cells from immune cattle, elucidating the role of various T lymphocytes in the development of protective immunity and identification and characterization of bovine leucocyte antigens. Applicants should have a veterinary degree or a first degree in science, a Ph.D. in immunology and preferably experience in cell mediated immunity.

These are international staff positions and salaries will be paid in US dollars. Initial salaries will be determined by qualifications and experience. Scientific staff are expected to contribute to the training program. Moving, housing, commutation and education allowances are paid and there are medical and retirement benefits. Applicants should include current curriculum vitae and names and addresses of three referees. Applications, citing the position reference number, should be sent by April 30th, 1990 to:

**The Chief Personnel Officer
ILRAD
P.O. Box 30709
NAIROBI
Kenya**



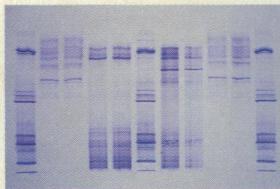
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