

Products & Materials

Portable Metabolic Computer

Oxymax-H is a fully portable metabolic computer. It includes oxygen and carbon dioxide analyzers and an IBM-compatible laptop computer for data collection and control. Metabolic data are stored on an internal hard disk and can be transferred to another computer by way of floppy disks or communications facilities. Data can also be printed in tabular or graphic formats. During experiments, oxygen consumption, carbon dioxide production, respiratory exchange ratio, and caloric expenditure are plotted in real time on the screen. The apparatus is 23 by 43 by 51 cm and weighs 21 kg. The system does not require direct patient contact and does not have any valves that could restrict patient movement or respiration. Columbus Instruments. Circle 529.

Microcentrifuge

The PicoFuge microcentrifuge weighs only 2.2 kg and occupies only 13 by 13 cm of benchtop space. It holds up to six 1.5-ml tubes. Maximum speed is 5000 rpm; maximum *g* force is 2000. Stratagene. Circle 530.

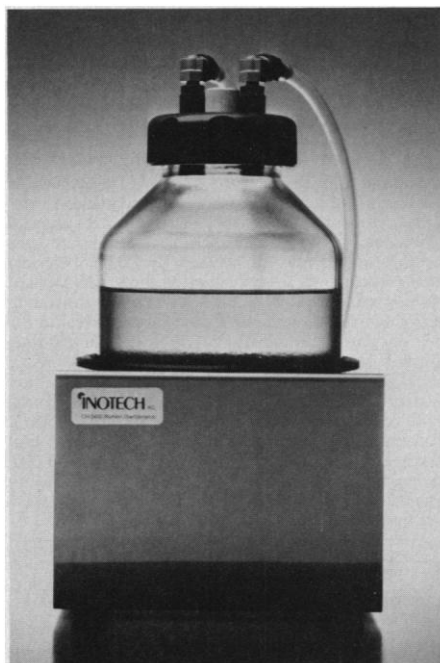
Stirring Hotplate Heats with Infrared

Model 4100 stirring hotplate provides a high temperature of 615°C and can boil 1 liter of water in 9 min. The device heats with electromagnetic radiation in the infrared range, produced by a patented molybdenum disilicide element. More than 80% of the infrared light passes directly into the sample, not into the container. The appliance provides more uniform heat-up and boiling, because container variables cannot affect the process. Fisher Scientific. Circle 531.

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.

Aspirated Liquid Collector

The VACU-Bottle makes collection of aspirated liquids from tissue culture easier. The bottles are coated with a polymer to ensure containment of liquid contents, even if the Pyrex glass is cracked or broken. The bottles are resistant to exposure to acids,



alcohol, and most common solvents, and the entire unit, including lid and fittings, is autoclavable. Aspirated liquids flow to the 3-liter safety bottle in silicon or polyvinylchloride tubing, and quick seal couplers prevent drip loss at tubing connections. Inotech Biosystems International. Circle 513.

UV Crosslinker

The FisherBiotech Ultraviolet Crosslinker binds nucleic acid samples to hybridization membranes in 15 to 30 s. It binds samples covalently after blotting procedures or colony and plaque lifts. The unit provides four modes of operation: a pre-programmed "Optimal Crosslink" mode, plus "Intensity," "Energy," and "Time" modes. Mode and



values are selected by keyboard. A light-emitting diode display and user-friendly messages guide the operator. The chamber door has a window for viewing samples and tubes. Fisher Scientific. Circle 540.

DNA Sequencing Kit

The AmpliTaq Sequencing Kit features the recombinant, thermostable enzyme AmpliTaq DNA Polymerase, mixed with annealing-labeling buffer and deoxynucleotides, providing researchers with a convenient two-step sequencing protocol. The kit contains modifications that enhance the results of the Sanger DNA sequencing method. The kit's 22-nucleotide M13 (*lacZ*) primer binds rapidly to the target DNA and provides single-step annealing and labeling. The temperature stability of AmpliTaq DNA Polymerase allows sequencing reactions to be performed at 72°C, at which temperature templates show minimal secondary structure and the stringency of primer hybridization is high. The kit includes labeling mix, stop solution, M13mp18 Control, an M13 (*lacZ*) primer, and A, G, C, and T termination mixes. Perkin-Elmer Cetus Instruments. Circle 538.

Duster for Lab Equipment

The Blow-Hard ES is an environmentally safe duster with no ozone-damaging chlorofluorocarbons. Each blast is triple-filtered for purity and for removal of laboratory dust and dirt from optical equipment, computers, electronic assemblies, and a wide variety of apparatus. Each 15-ounce container comes with two extension tubes, one for delicate dusting and one for full-strength use. Manostat Corp. Circle 532.

Literature

1991 *Analtech TLC Catalog* includes a wide variety of thin-layer chromatography plates and supplies. Analtech. Circle 533.

Disposables for Liquid Handling describes a wide selection of products for pipetting, dispensing, measuring, and storing liquids. The catalog gives product dimensions, chemical data, and applications. Bio-Rad Laboratories. Circle 576.

The *Membrane Selection Guide* folds out to a large, color-coded wall-chart with more than 75 different membrane types and applications. Users can cross-reference membrane type, pore size, protein binding, bubble point, and other information. Millipore. Circle 534.

Personnel Placement

LINE CLASSIFIED ADVERTISEMENTS

DEADLINES: Ads are due by Thursday, 10 a.m., 2 weeks prior to the issue date. *Science* publishes each Friday, except the last Friday of the year. Advertisements must be submitted in writing.

HOW TO SUBMIT A CLASSIFIED AD: Prepare double-spaced typewritten ad copy on a separate sheet. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Deadline for applications stated in ad must be at least 2 weeks after date of publication. Also include a cover sheet which gives name and phone number of contact person, desired date of publication, and billing information, including any special invoicing requests. Mail or FAX materials to:

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

CLASSIFICATIONS: *Science* publishes line classified ads under the following headings: **Positions Open, Employment Agencies, Situations Wanted, Courses and Training, Meetings, Announcements, and Marketplace.** Advertisers should specify classification desired.

HOW TO CALCULATE RATE FOR CLASSIFIED AD: Ads are \$41 per line with a \$410 minimum. One line equals 52 characters and spaces; centered headings equal 32 characters and spaces.

To ESTIMATE ad cost, count total number of 52 character lines and multiply by \$41 to find approximate cost of ad per week. Each line of centered heading counts as one line. Also count one line for white space between headline and first line of text; all partial lines are also counted as full lines (including all centered reply information).

Remember, this is a rough estimate only. Allow for variation between estimated typewritten lines and ads when actually typeset for magazine. Therefore, purchase orders must allow additional funds for flexibility and/or adjustment. *Science* cannot provide proofs of typeset ads.

PREPAYMENT DISCOUNT: A 3% cash discount is granted to all prepaid line ads. Prepayment made in U.S. dollars by checks drawn on U.S. banks is required on all foreign ads.

CREDIT CARDS: *Science* accepts MasterCard and VISA. Both personal and corporate cards may be used. Prepayment does not apply to credit cards.

BOXES AND LOGOS: Any line classified ad can be boxed and/or published with logo to increase its visibility on page. Since the box takes up additional space, one line now equals 48 characters and spaces; two additional lines will be added to allow for top and bottom rules. Logos are billed according to the number of lines needed to fit logo in space.

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

DISPLAY PERSONNEL ADVERTISEMENTS

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

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

CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. *Science* reserves the right, at its discretion, to decline to publish advertisements submitted to it and to decline classifications which it considers misleading.

POSITIONS OPEN

ASSISTANT PROFESSOR. One individual is being sought for assistant professor (tenure-track) position in the Department of Urologic Surgery of the University of Minnesota. Candidate must have demonstrated involvement in quality research and have competence in communication and the teaching of students. Individual must be Board-certified or Board-eligible in urologic surgery. Individual must have completed an urologic surgery residency and an Endourology Fellowship. Individual will teach, do research, and provide patient care in the area of urologic surgery. Individuals should submit curriculum vitae and bibliography by 31 March 1991 to: Dr. P. Reddy, Urologic Surgery, University of Minnesota, Box 394 UMHC, Minneapolis, MN 55455. *The University of Minnesota is an Equal Opportunity Educator and Employer.*

ASSISTANT PROFESSOR POSITIONS. The Respiratory and Critical Care Division, Department of Medicine, Washington University, is expanding its commitment to research on molecular and cell biology of inflammation and invites applications for tenure-track positions at the rank of assistant professor. Ongoing research projects focus on the molecular regulation of cell adhesion molecules and lipid mediators. We are searching for individuals with complimentary interests in the fields of cellular immunology or in epithelial or endothelial cell biology. Applicants who hold a Ph.D. or M.D. should send curriculum vitae, references, and a brief statement of research interests to: M. J. Holtzman, Co-Director, Respiratory and Critical Care Division, Washington University School of Medicine, 660 South Euclid, Box 8052, St. Louis, MO 63110. *Washington University School of Medicine is an Affirmative Action/Equal Opportunity Employer. We encourage applications from minorities and women.*

UNIVERSITY OF PENNSYLVANIA ASSISTANT PROFESSOR OF BIOCHEMISTRY AND BIOPHYSICS

The Department of Biochemistry and Biophysics at the University of Pennsylvania School of Medicine invites applications for a tenure-track assistant professor in the area of theoretical studies of protein structure. Candidates should forward their curriculum vitae, a summary of research interests, and arrange for three letters of recommendation to be sent to: Ms. Ruth Keris, Staff Assistant, Department of Biochemistry and Biophysics, University of Pennsylvania, Philadelphia, PA 19104-6059. The deadline for applications is 15 April 1991. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.*

UNIVERSITY OF LOUISVILLE SCHOOL OF MEDICINE DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Two tenure-track ASSISTANT PROFESSOR positions are available for the fall of 1991. The University of Louisville is part of the state system and the department is undergoing well-funded expansion at all levels. Candidates should hold a Ph.D., D.V.M., or M.D. degree and have at least 2 years of postdoctoral research experience. Successful applicants will receive good start-up support and line item 12-month salary and will be expected to excel in the teaching of medical and graduate students. They should also be able to establish an independent molecularly oriented research program in one of four areas: virology, immunology, pathogenic mechanisms, or cell structure and growth regulation. Applicants should send their curriculum vitae, a statement on research interests, and names of three references to: Dr. Gordon D. Ross, Chairman, Department of Microbiology and Immunology, University of Louisville, Louisville, KY 40292. *The University of Louisville is an Equal Opportunity Educator and Employer that specifically encourages applications from women and minorities.*

ASSISTANT/ASSOCIATE PROFESSOR

Ph.D. preferred, M.S. considered. Begin August 1991. Some teaching experience. Primary responsibility in ANATOMY/PHYSIOLOGY/EMBRYOLOGY. Expected to teach undergraduate lower division courses in a Cardiovascular Perfusion Program and in nonscience courses. Liberal arts environment. Letter stating interests, complete résumé, transcripts, and three letters of reference due by 15 April 1991 to: Sister John Karen Frei, Dean, Division of Biological and Biomedical Science, Barry University, Miami Shores, FL 33161.

POSITIONS OPEN

ASSISTANT PROFESSOR OF BIOLOGICAL CHEMISTRY JOHNS HOPKINS SCHOOL OF MEDICINE

The Department of Biological Chemistry at Johns Hopkins University School of Medicine invites applications for a tenure-track position at the assistant professor level. The applicant should have a commitment to excellence in research and teaching in biochemistry or molecular biology. Before 15 May 1991, applicants should submit a curriculum vitae with list of publications, representative reprints, three letters of recommendation, and a summary of research plans to: Dr. Paul T. Englund, Search Committee Chairperson, Department of Biological Chemistry, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. *Equal Opportunity/Affirmative Action Employer.*

The Department of Pharmacology, University of Pennsylvania, has opening for RESEARCH ASSISTANT PROFESSOR. Applicant must have advanced degree and 2 to 4 years of postdoctoral research experience to join ongoing program on the role of G proteins in endothelial cell function. Send curriculum vitae, names of three references, and a brief statement of career goals by 15 April 1991 to: Search Committee, Department of Pharmacology, University of Pennsylvania School of Medicine, Philadelphia, PA 19104-6084. *The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.*

BIOCHEMIST/MOLECULAR ENDOCRINOLOGIST. Positions available at RESEARCH ASSISTANT PROFESSOR, RESEARCH ASSOCIATE, and POSTDOCTORAL levels for studies related to biochemistry of reproduction. Project areas include structure-function studies on FSH and receptor (including peptide synthesis), hormone binding inhibitors, mechanism of hormone action. Stable funding. Please forward curriculum vitae, summary of research skills, experience, and names of three references to: Leo E. Reichert Jr., Ph.D., Department of Biochemistry A-10, Albany Medical College, Albany, NY 12208.

BIOCHEMIST

The Department of Marine Biology of Texas A&M University at Galveston invites applications for a tenure-track faculty position in biochemistry at the ASSISTANT/ASSOCIATE PROFESSOR level. Candidates should have research interests/ongoing research programs in comparative biochemistry (with emphasis on marine organisms) at the cellular and/or organismal levels. The appointee will be expected to teach at the undergraduate and graduate levels and supervise graduate students. Applicants should have Ph.D. and significant postdoctoral experience. Interested individuals should send curriculum vitae, a short statement of research and teaching interests and goals, and the names of three references to: Dr. Randall Davis, Department of Marine Biology, Texas A&M University at Galveston, P.O. Box 1675, Galveston, TX 77553 by 15 April 1991. This position is contingent upon acquiring funding in the fall 1991 academic budget.

An Equal Opportunity/Affirmative Action Employer.

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR or tenure-track ASSOCIATE PROFESSOR level. Applicants should have an M.D. or Ph.D. degree, or both. The goal of the search is to identify candidates who are trained to elucidate at the cellular and molecular levels the mechanisms by which environmental agents, inherited genetic factors, or biochemical deficits interact to cause neurodegenerative disorders in human and experimental systems. The position is supported, in part, by the Burroughs Wellcome Award and is a joint appointment in the Environmental Health Sciences Center and either the Department of Neurology or Pharmacology.

Applicants should send curriculum vitae, summary of research interest, and names of three referees. Deadline for receipt of applications is 1 May 1991.

Applications should be sent to:

M. D. Maines
Department of Biophysics and Environmental
Health Sciences Center
Box BPHYS
University of Rochester School of Medicine
Rochester, NY 14642

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

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF BIOLOGY #4-01-9006. Starting date: 26 August 1991. Teach general biology lecture/laboratory and upper division course in area of expertise; research involving undergraduates possible. Ph.D. in biology, high energy level and interest in teaching, and computer literacy expected. Send application, résumé, transcripts, and three letters of reference to: **Dr. Hobart Dixon, Adams State College, Alamosa, CO 81102. Telephone: 719-589-7256.** Application review begins 8 April 1991 and continues until the vacancy is filled.

ASSISTANT OR ASSOCIATE PROFESSOR OF CLINICAL NUTRITION. Full-time, tenure-track position. M.D. and/or Ph.D. with clinical nutrition emphasis is required. Demonstrated research ability and graduate teaching competency. Salary commensurate with experience. Exciting multidisciplinary opportunities available. Send letter of application, résumé, transcripts, and three letters of reference to: **Dr. Geza Bruckner, Chair, Department of Clinical Sciences, 229 Medical Center Annex Two, University of Kentucky, Lexington, KY 40536-0080.**

Two teaching/research positions (**ASSISTANT/ASSOCIATE PROFESSOR**) at Nova Oceanographic Center: **BIOLOGICAL OCEANOGRAPHER/MARINE BIOLOGIST** specializing in genetics, evolution, or physiology using molecular or biochemical techniques. Duties: undergraduate teaching (cell physiology/molecular biology and biochemistry for premed and ocean science majors), graduate teaching, and externally funded research. **ENVIRONMENTAL SCIENTIST/COASTAL ZONE MANAGER.** Duties: undergraduate (environmental sciences) and graduate teaching (coastal zone management), and externally funded research. Send application letter addressing expected duties, curriculum vitae, and three letters of reference to: **Nova University, 3301 College Avenue, Ft. Lauderdale, FL 33314** by 12 April 1991.

MOLECULAR NEUROONCOLOGIST UNIVERSITY OF FLORIDA COLLEGE OF MEDICINE

The Department of Pediatrics seeks a molecular neurobiologist to direct a newly established Neurooncology Laboratory, at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Anticipated start date: 1 June 1991. A Ph.D. or M.D./Ph.D. and postdoctoral experience is required for this tenure-track position. The Neurooncology Laboratory is an integral part of a newly developing Neuroscience Center. Qualified individuals will direct and participate in the experimental plan development and execution and technician training and supervision, and write and direct research proposals relating to the biology of brain tumors. Salary is commensurate with experience. Send curriculum vitae, record of grant support, bibliography, three letters of recommendation, and a brief description of future research plans by 30 April 1991 to: **Bernard Maria, M.D., Pediatric Neurology, Box J-296, JHMHC, Gainesville, FL 32610.** An Equal Employment Opportunity/Affirmative Action Employer.

QUANTITATIVE FISHERIES MANAGEMENT/ APPLIED BIOSTATISTICS

The Department of Marine Biology, Texas A&M University at Galveston, is accepting applications for a 9-month, tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** faculty position in quantitative fisheries management/applied biostatistics beginning fall 1991. Applicants should have a broad background in experimental design, biostatistics/population dynamics, and/or computer modeling for application to living marine resource management. Persons employing modern methods in empirical and/or management perspective are encouraged to apply. The successful applicant is expected to teach courses in fish population dynamics, fisheries management and biostatistics; develop a vigorous, externally funded research program; direct graduate students; and provide statistical/modeling expertise to fellow faculty members. Applicants should send curriculum vitae, one-page descriptions of research and teaching goals, one research paper or manuscript, and names, addresses, and telephone numbers of three references to: **Dr. Randall Davis, Department of Marine Biology, Texas A&M University at Galveston, P.O. Box 1675, Galveston, TX 77553** by 15 April 1991. This position is contingent upon acquiring funding in the fall 1991 academic budget.

An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR OF MOLECULAR GENETICS/MOLECULAR BIOLOGY. Possible tenure-track, research position available 1 March 1991. Requires M.D. and/or Ph.D. degree with postdoctoral training in molecular genetics/biology and research interest in molecular biology and genetics of deafness and other head/neck region disorders. Clinical training in medical genetics preferred. Send curriculum vitae, statement of research interests, and names, addresses, and telephone numbers of five references to: **Dr. R. A. Schindler, Chair, Department of Otolaryngology/Head and Neck Surgery, Box 0958, University of California, San Francisco, CA 94143-0958.** An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT OR ASSOCIATE PROFESSOR DEPARTMENT OF ANATOMY DALHOUSIE UNIVERSITY HALIFAX, NOVA SCOTIA

The Department of Anatomy at Dalhousie University is seeking applications for a tenure-track position which could commence as soon as July 1991. Candidates must have a Ph.D. and have undertaken postdoctoral training. The ability to teach histology, gross anatomy, or neuroanatomy is desirable, and the candidate will be expected to undertake an independent research program. Current research activities within the department include neurobiology, functional morphology, and cell biology. Applications should include curriculum vitae, representative reprints, a summary of present research activities, an outline of future research directions, and the names of three referees. Please apply to: **Dr. D. A. Hopkins, Professor and Head, Department of Anatomy, Faculty of Medicine, Dalhousie University, Halifax, Nova Scotia, Canada B3H 4H7.** The application deadline is 30 April 1991. *In accordance with Canadian immigration requirements, this advertisement is directed in the first instance to Canadian citizens and landed immigrants. Dalhousie University encourages applications from qualified women, visible minorities, and handicapped persons. Dalhousie University has a policy of Affirmative Action in hiring qualified women academic staff.*

THE UNIVERSITY OF CALGARY CIBA-GEIGY CHAIR IN SCHIZOPHRENIA RESEARCH

The University of Calgary Faculty of Medicine invites applications for the Ciba-Geigy Chair in Schizophrenia Research. The successful candidate will be a distinguished scholar with an international reputation in basic research, and will be expected to develop and maintain an independent research program relevant to the problem of schizophrenia, to attract peer-reviewed funding, to demonstrate a commitment to excellence in teaching and patient care, and to attract outstanding students, research associates, and faculty. Priority will be given to candidates with expertise in molecular biology and/or molecular genetics.

In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Calgary has an Employment Equity program and encourages applications from all qualified candidates, including women, aboriginal people, visible minorities, and people with disabilities.

Please submit curriculum vitae, a statement of research interests and goals, and the names of three referees by 30 April 1991 to:

**Dr. M. Watanabe, Chair, Advisory Committee
Ciba-Geigy Chair in Schizophrenia Research
The University of Calgary
3330 Hospital Drive, N.W.
Calgary, Alberta T2N 4N1, Canada**

DIRECTOR, CENTER OF SCIENCE EDUCATION. Rank and salary commensurate with qualifications and experience. Full-time, 10-month administrative and tenure-track teaching position. Starting date: July 1991. Qualifications include earned Ph.D. Academic preparation in one or more disciplines in the School of Natural Sciences: botany, chemistry, geography, geology, microbiology, physics, or zoology. Teaching experience both at precollege and college levels. Experience in preparation of grant proposals desirable. Send letter of application, résumé, and list of three references who may be contacted to: **Dr. Gloria Z. Wurst, Chair, Search Committee, c/o Human Resources, Weber State University, Ogden, UT 84408-1016,** or telephone dean's office: 801-626-6159. Materials must be received by 1 April 1991. *Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR AND CELLULAR PHYSIOLOGY THE UNIVERSITY OF IOWA

Applications are invited for faculty positions at the **ASSISTANT, ASSOCIATE, or FULL PROFESSOR** level from individuals with a record of high quality research in molecular biology, cell biology, developmental biology, or electrophysiology complementing existing departmental programs in eukaryotic gene expression, intracellular and intercellular signaling, or structure and function of membrane proteins. Modern laboratory space and substantial start-up support are available. Rank and salary are commensurate with training and experience. Minimum requirements are Ph.D. or M.D. degree and 2 years of relevant postdoctoral training. Screening will begin 1 April 1991. Send curriculum vitae, description of research, reprints, and three letters of recommendation to:

**Dr. Jeffrey Pessin, Chairman
Molecular and Cellular Physiology
Search Committee**

**Department of Physiology and Biophysics
The University of Iowa College of Medicine
Iowa City, IA 52242**

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

PROFESSOR AND CHAIR DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Medical University of South Carolina, an expanding health science campus, invites applications and nominations for the position of professor and chair of the Department of Biochemistry and Molecular Biology. In particular, we are seeking an individual to lead the development of a program in molecular biology with emphasis on one or more of the following areas: molecular genetics, gene transfer, transgenics, signal transduction, molecular virology, or developmental biology. Major institutional commitments include:

- Ralph F. Hirschmann Professorship of Basic Biochemical Research (endowed chair).
- Nine new state-supported faculty positions in addition to 16 existing positions, making a total of 25 positions.
- Fifteen thousand square feet of renovated space available upon arrival and ultimately 35,000 square feet of modern, contiguous space.
- Competitive salaries and start-up packages for the new chair and new faculty.

Nominations and applications, including curriculum vitae, should be sent by 1 May 1991 to:

**Dr. E. Carwile LeRoy, Chairman
Biochemistry Search Committee
Department of Medicine
Medical University of South Carolina
171 Ashley Avenue
Charleston, SC 29425**

The Medical University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

HEAD, DEPARTMENT OF VETERINARY ANATOMY AND FINE STRUCTURE

The School of Veterinary Medicine invites applications and nominations for the position of head, Department of Veterinary Anatomy and Fine Structure (VAN). The successful candidate must have proven leadership ability, have demonstrated good management skills, and have established a record of academic excellence. Qualified candidates must possess the ability to balance the academic, personnel, and fiscal needs of the department to ensure continued growth and development in teaching, research, and service.

The position requires the D.V.M. degree (or equivalent) and/or a Ph.D. degree in an anatomical subdiscipline. The successful candidate shall be eligible for an academic appointment to the graduate faculty. This position is a full-time, tenure-track, fiscal year appointment. Salary and starting date are negotiable. Application closing date is 15 May 1991. Interested persons are encouraged to send a letter of intent, curriculum vitae, and the names, addresses, and telephone numbers of three references to: **Dr. Robert D. Pechman, VAN Head Search Committee Chairman, Department of Veterinary Clinical Sciences, School of Veterinary Medicine, Louisiana State University, Baton Rouge, LA 70803. Telephone: 505-346-3191.** Louisiana State University is an Equal Opportunity Employer.

POSITIONS OPEN

ENDOWED CHAIR DIABETES RESEARCH

The Department of Medicine, Baylor College of Medicine, invites applications for the Rutherford Chair Professorship for Diabetes Research and Director of the Diabetes and Endocrine Research Center. The applicant must have established a nationally recognized program in diabetes-related research. It is expected that the individual will possess leadership and administrative abilities necessary to direct the development of an aggressive institution-wide effort in diabetes research utilizing resources from multiple clinical and basic research departments. A letter of interest or nomination, curriculum vitae, and the names of at least three references should be sent to: **Glenn R. Cunningham, M.D., Chair, Search Committee, Research Service 151, 2002 Holcombe, VA Medical Center, Houston, TX 77030.**

CHAIRPERSON OF ORAL BIOLOGY

Creighton University School of Dentistry invites applicants for the position of chairperson of oral biology. Applicants should have a Ph.D. in a basic science discipline or D.D.S. degree with postdoctoral experience and a record of significant contributions in an area of basic research. The chairperson will be expected to administer a department which is successful in research and teaching and to coordinate the dental basic science courses. The School of Dentistry is closely aligned with the School of Medicine and the chairperson will be expected to interact extensively with the appropriate basic science departments in the medical school. Creighton University School of Dentistry is located close to the School of Medicine and is in direct proximity to the Health Sciences Library and to St. Joseph Hospital (the teaching hospital for the university). Interested individuals should send curriculum vitae by 1 June 1991, to the chairman of the search committee, **Dr. Frank Dowd, Chairman, Department of Pharmacology, School of Medicine, Creighton University, Omaha, NE 68178.** *Creighton University is an Equal Opportunity/Affirmative Action Employer.*

CHAIRPERSON OF PHARMACOLOGY THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT SAN ANTONIO (UTHSCSA)

The UTHSCSA is seeking applications and nominations for the position of professor and chair of the Department of Pharmacology. The department is a component of the Graduate School of Biomedical Sciences which is part of a large health science center located in a desirable geographic setting bordering the Texas hill country. The department has 19 full-time faculty with diverse research and clinical interests and teaching responsibilities in the medical, dental, and graduate schools. In addition, the department, along with the University of Texas School of Pharmacy at Austin, jointly administers the San Antonio-based clinical pharmacy (Pharm. D.) program. Applicants should submit curriculum vitae with an outline of research interests and administrative experiences and the names of four references by 26 April 1991 to: **Dr. Joel B. Baseman, Chairman, Pharmacology Search Committee, Department of Microbiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7758.** *UTHSCSA is an Equal Opportunity/Affirmative Action Employer.*

LABORATORY DIRECTOR PARKINSON'S DISEASE CENTER

The Department of Neurology, Henry Ford Hospital and Health Sciences Center, is seeking an established neuroscientist (Ph.D. or M.D.) to direct research into the mechanisms of neuronal injury and death or with an interest in tissue transplantation. Generous funding is available to set up a major new laboratory for research in Parkinson's disease.

The Neurology Department is a major research center with active university affiliations and pre- and postdoctoral programs. It has an NINDS Cerebrovascular Research Center as part of a wide spectrum of basic and clinical research in CNS disease. Applicants should send a letter of application, curriculum vitae, and three letters of recommendation to: **Jay M. Gorell, M.D., Director, Gossett Parkinson's Disease Center, Department of Neurology, Henry Ford Hospital and Health Sciences Center, 2799 West Grant Boulevard, Detroit, MI 48202.** *Henry Ford Hospital is an Equal Opportunity Employer.*

POSITIONS OPEN

CHAIRMAN DEPARTMENT OF PSYCHIATRY UNIVERSITY OF ALABAMA SCHOOL OF MEDICINE

The University of Alabama School of Medicine at Birmingham (UAB) is seeking a person to fill the position of chairman, Department of Psychiatry. The department is responsible for teaching medical students, residents, and graduate students in psychiatry and relevant areas of the neurosciences, as well as conducting multidisciplinary research on psychiatric disorders and related topics in the neurosciences. Patient care responsibilities include a comprehensive mental health center, inpatient and outpatient services, as well as substance abuse programs. A new 90-bed psychiatric hospital is under construction and scheduled for completion in 1992. Inquiries and applications should be addressed to:

**Mrs. Antonietta D. Hyche
Director, Academic Support Programs
Office of the Dean, MEB 310
University of Alabama School of Medicine
UAB Station
Birmingham, AL 35294-3293**

An Affirmative Action/Equal Opportunity Employer.

DEAN, University of South Florida (USF) College of Medicine. The University of South Florida College of Medicine is seeking applicants for the position of dean. The dean is responsible for the education, research, and clinical programs conducted at the University of South Florida College of Medicine. The college is one of three in the state of Florida. USF opened in 1960 and the College of Medicine began in 1971. USF is the 35th largest university in the nation with more than 30,000 students and is located in an expanding metropolitan area of more than 2 million people. The Health Sciences Center also includes a College of Public Health and a College of Nursing. It has approximately 475 faculty and 96 students in each class. Applicants should have an M.D. degree or equivalent; should have considerable academic, administrative, and leadership skills; and should meet standards for appointment at the full professor level. Applicants should send their curriculum vitae and the names of five references to: **Allan L. Goldman, M.D., Chairman, Dean Search Committee, University of South Florida College of Medicine, Box 19, 12901 Bruce B. Downs Boulevard, Tampa, FL 33612.** *USF is an Equal Opportunity/Affirmative Action Employer.*

UNIT DIRECTOR DIAGNOSTIC MOLECULAR PATHOLOGY

Rush Medical College, Department of Pathology, and the Office of Consolidated Laboratory Services at Rush-Presbyterian-St. Luke's Medical Center are seeking a proven professional to assume the key position of unit director of the Diagnostic Molecular Pathology Laboratory at Rush. The laboratory serves Rush's 1265-bed medical center facility, which is one of the nation's outstanding leaders for integrating patient care, education, and research. This laboratory offers services in areas including viral diagnostics, hematology-oncology, immunology, genetic diseases, transplantation, and paternity. It also participates in educational programs for pathology residents, medical technologists, and medical, doctoral, and postdoctoral students. The laboratory is part of the Division of Immunology, which includes general immunology, retrovirology, flow cytometry, genetics, and endocrinology. The successful candidate should have a strong commitment to service, research, and education, and will be expected to develop an independent research or R&D program and to teach in the university. Professional experience in the diagnostic laboratory, familiarity with immunologic techniques, and documented investigational productivity are sought. Salary will depend upon training and experience. Applicants must possess an M.D. and/or a Ph.D. or an equivalent degree and should be Board-certified or -eligible. Applicants should submit curriculum vitae, statement of research interest, and the names of three references to: **Meryl H. Haber, M.D., Chairman, Department of Pathology, Rush-Presbyterian-St. Luke's Medical Center, 1653 West Congress Parkway, Chicago, IL 60612.**

An Equal Opportunity/Affirmative Action Employer.

SCIENCE recruitment ads reach thousands of scientists in all disciplines, worldwide. **Classified Advertising** telephone: 202-326-6555. FAX: 202-682-0816.

POSITIONS OPEN

PROFESSOR AND HEAD OF SCHOOL OF LIFE SCIENCE

Queensland University of Technology (QUT) is one of Australia's newest and largest universities, operating on four Brisbane campuses. Formerly the Queensland Institute of Technology for 23 years, QUT became a university in 1989. In May 1990 it merged with the Brisbane College of Advanced Education, creating the new QUT with more than 20,000 students and 1955 full-time staff. Since amalgamation, academic and administrative structures have been reorganized. The eight faculties are Arts, Built Environment and Engineering, Business, Education, Health, Information Technology, Law, and Science.

The School of Life Science was created on 1 January 1991 by the merger of the Department of Biology from Science and the Department of Medical Laboratory Science and Anatomy and Physiology area from Health Science.

The school is responsible for bachelor degree programs in biology, medical laboratory science, and microbiology/biochemistry; associate diploma programs in biology and clinical laboratory techniques; and a coursework master's degree in medical laboratory science. The school offers an honours degree together with research master's and Ph.D. degrees through its associated University Centres of Molecular Biotechnology and Biological Population Management. Within the school there are approximately 600 students, 40 academic staff, and 35 support staff exclusive of grant-funded research positions. The school presently has approximately 50 postgraduate research students. The school is well equipped for teaching and research in plant, animal, and medical molecular biotechnology; population biology; aquaculture; plant biotechnology; haematology; tissue pathology; cytology; biochemistry; microbiology; immunology; physiology; and anatomy. Associated facilities include the analytical electron microscope facility with x-ray microanalysis capability.

This appointment offers a unique opportunity to be the foundation head of an exciting new school whose component parts are already major contributors to the university's research effort.

Applicants should meet the criteria for appointment as a professor and should have a higher degree, preferably at doctoral level. The successful applicant will have the ability to manage and administer the school and play an appropriate part in the life of the university. Applicants should also have demonstrated teaching ability of a high order at a tertiary level, several years of experience at a professional level in industries involved in the field, a record of research and publication, and the ability to liaise effectively with the professions.

Permanent appointment is available at the level of professor: \$67,812 per annum (US\$52,629 per annum). Appointment as head of school will be for a 5-year renewable term and will carry a loading of \$6000 per annum (US\$4567 per annum). Conditions include subsidised superannuation, relocation assistance, professional experience leave, and study assistance.

Selection criteria for the position and information on the university is available from QUT's Personnel Department, telephone: 61-7-864-3362 or FAX: 61-7-864-3996.

Applications quoting Reference Number 20/91 should include evidence of experience and academic qualifications and the names, addresses, and telephone and facsimile numbers of five professional referees. Applications should address the selection criteria and should reach: **The Personnel Director, QUT, Locked Bag No. 2, Red Hill 4059, Australia,** by 5 April 1991. *Smoking is not permitted in QUT buildings. An Equal Opportunity Employer.*

QUEENSLAND UNIVERSITY OF TECHNOLOGY

Henry Ford Hospital. **CO-DIRECTOR, LIVER TRANSPLANT PROGRAM.** Experienced liver transplant hepatologist wanted for transplant program in busy gastroenterology/hepatology division. The co-director will be responsible for the clinical and research components of the program. Laboratory space, start-up funds, and an excellent research environment will be provided. Salary negotiable based on experience and qualifications. Full benefit package. Contact: **Ronald Fogel, M.D., Chief, Division of Gastroenterology, Henry Ford Hospital, 2799 West Grand Boulevard, Detroit MI 48202.** *Henry Ford Hospital is an Equal Opportunity Employer.*

REGENERON

Regeneron seeks to apply recent advances in the understanding of neuronal growth and regeneration to the development of novel therapeutic products for degenerative and traumatic neurological disorders. Key projects focus on the discovery of novel neurotrophic growth factors and their receptors, and on the assessment of the biological roles and therapeutic potentials of such factors. **Regeneron** offers an exciting, collegial environment in which state-of-the-art skills in molecular and cellular biology are brought to bear on outstanding problems in neurobiology and medicine. Research positions for Ph.D. scientists are currently available in the following areas:

Eukaryotic Gene Expression with relevant research experience, preferably in an industrial setting. The work involves the use of existing vectors for the expression of recombinant genes in mammalian and insect cells, the development of novel vectors, and the study of major factors that affect gene expression, such as transcriptional and translational control and cell trafficking.

Protein Purification/Process Development with experience on purification of recombinant proteins, preferably in an industrial setting. The work involves the purification and study of recombinant proteins. Experience with additional aspects of Process Development and/or Production is desirable.

Membrane Protein/Receptor Biochemistry with postdoctoral experience. Ongoing studies focus on the identification, isolation and characterization of receptors and membrane proteins from natural and recombinant sources, and the signal transduction pathways activated by these receptors.

Molecular Neurobiology with specialized skills in recombinant DNA technology, as well as an interest in applying those skills to the discovery and characterization of novel neurotrophic factors, receptors and signal transduction pathways.

Regeneron's modern facility offers suburban living, and ready access to the cultural and business centers of New York City. Please send your resume indicating the relevant position, in confidence, to: Ms. Carol Deaken, **Regeneron**, 777 Old Saw Mill River Rd., Tarrytown, NY 10591-6707

REGENERON
Pharmaceuticals, Inc.

Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious and metabolic diseases. This expansion has created several exceptional opportunities for individuals to do basic research in the following areas:

RESEARCH SCIENTISTS MICROBIAL MOLECULAR BIOLOGY

The successful candidate will screen phage libraries or use PCR to recover genes of interest which will be cloned and expressed in a variety of bacterial vectors for the development of assays to assist in natural product screening. Experience in the aforementioned techniques as well as mutational analysis, westerns, protein purification, and enzyme and radioisotope based screens is preferred. Reply to **Dept. #209A**.

MICROBIAL BIOCHEMISTRY & GENETICS

Specific areas of involvement include purification of proteins and radioligand receptor binding assays; signal transduction mechanisms; and enzyme and receptor binding kinetics. A knowledge of general biochemical techniques including electrophoresis, HPLC is necessary. Knowledge of cloning, library screening and expression is preferred. Reply to **Dept. #209B**.

Candidates for these positions should possess a BS or MS in a relevant scientific discipline along with relevant research experience.

RESEARCH INVESTIGATOR Protein (Enzyme) Isolation

We are seeking a scientist to join our Microbial Technology Department at our New Brunswick, NJ campus. In this position, you will be responsible for identifying, purifying and characterizing enzymes with microbial origins to be used in biosynthesis. Candidates should have a Ph.D. in Biochemistry or Microbiology and a minimum of 2 years post doctoral experience. Reply to **Dept. #209C**.

Please forward your resume to (including dept. code#): **Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000**. An equal opportunity employer.



Bristol-Myers Squibb Company

**DIVISION OF PARASITIC DISEASES
CENTER FOR INFECTIOUS DISEASES
CENTER FOR DISEASE CONTROL
ATLANTA, GA 30333**

The Division of Parasitic Diseases is organized into 2 principle branches, the Malaria Branch and the Parasitic Diseases Branch (PDB). Applications are invited for the Chief of the PDB. The PDB has strong, multidisciplinary research programs in immunology, molecular biology, biochemistry, and epidemiology for a wide variety of parasitic diseases that threaten public health. Candidates with a doctoral degree and extensive experience in both laboratory and field aspects of parasitology research are preferred. We seek an established scientist with proven achievements in research management and competitive funding to provide scientific and administrative leadership for the PDB. This position may be filled through the U.S. Public Health Service Commissioned Corps or the U.S. Civil Service. Starting salary (generally in the \$60,000 to \$80,000 per annum range) will vary, depending on experience and the employing service. Interested individuals are invited to submit a curriculum vitae, list of publications, and names of three references to Mr. William V. Nelson, Personnel Management Office, MS-D01, Centers for Disease Control, Atlanta, GA 30333, telephone: (404) 639-3271, no later than March 15, 1991. CDC is an Equal Opportunity Employer and provides a smoke-free environment.

**Dean, College of Science,
Texas A&M University**

The College of Science is comprised of the Departments of Biology, Chemistry, Mathematics, Physics and Statistics, and the Cyclotron Institute. The College has 270 faculty, 2,330 undergraduate majors, 778 graduate students, and a total research and teaching budget of approximately \$39,000,000. Ph.D. programs are offered in all departments. Texas A&M University is a major teaching and research institution and ranks in the top ten nationally in research funding, number of national merit scholars, total student enrollment (41,000), and value of its permanent endowment.

The successful applicant will have an outstanding record of achievement in teaching and research and have demonstrable administrative skills. Effective communication with multiple constituencies, a talent for management of complex organizations, and a sense of visionary leadership will be especially important.

Applications, consisting of a resume and the names of five persons from whom we may request letters of reference, will be accepted until April 15, 1991, or until the position is filled. Women and minorities are especially encouraged to apply.

Texas A&M University is an equal opportunity, affirmative action employer.

Respond to:

**Dr. John A. Shaddock, Chair
Search Committee, Dean of Science
Texas A&M University
College Station, TX 77843-4468
Phone: 409/845-3517
FAX: 409/845-6739**

POSITIONS OPEN

**DIRECTOR
MOLECULAR GENETICS
DIAGNOSTIC LABORATORY
NEW YORK UNIVERSITY
MEDICAL CENTER**

The Human Genetics Program in the Department of Pediatrics at New York University (NYU) Medical Center is recruiting a director for a new molecular genetics diagnostic laboratory. This recruitment is part of a major expansion of research, clinical, and teaching activities in medical genetics at this major research and teaching facility in New York City. The program provides genetic services to a large group of patients with metabolic diseases, neuromuscular diseases, craniofacial disorders, hearing impairment, and psychiatric disorders.

Candidates must have a doctoral degree and at least 2 years of experience in DNA diagnostics and must be Board-certified in biochemical/molecular genetics. Appointment will be commensurate with experience. Inquiry should be by letter describing previous experience and professional plans. This should include curriculum vitae and the names of three referees and should be sent to: **Harry Ostrer, M.D., Human Genetics Program, Department of Pediatrics, NYU Medical Center, 550 First Avenue, New York, NY 10016.**

The Food and Agriculture Organization of the United Nations invites applications for the post of

**DIRECTOR, LAND AND WATER
DEVELOPMENT DIVISION**

at its headquarters in Rome, Italy.

A leading soil scientist is required for this post. Candidates must have proven leadership skills, managerial competence, foresight, and program and project priority—setting abilities to head a multinationality and multidisciplinary team working in Rome and in the field. He or she should have at least 15 years of progressive experience in developing countries and be proficient in English and, preferably, also in French or Spanish.

The activities of the division, with more than 40 professional staff, include the assessment, planning, development, and sound management of land and water resources. Major aspects are quantification of land and water resource potentials, integrated soil and plant nutrition systems, optimum water use efficiency for irrigation, halting and reversing of land degradation, and promotion of sustainable land use practices. The division provides services to member countries through its regular program and an extensive field program throughout the developing world.

Benefits: Relocation, tax-free salary, cost-of-living adjustment, education grant, and other benefits of the International Civil Service.

Please send detailed curriculum vitae not later than 30 April 1991 quoting "Director, AGL" to: **Central Recruitment, FAO, Via delle Terme di Caracalla, 00153 Rome, Italy.**

The Department of Veterans Affairs Medical Center, Nashville, Tennessee, is actively recruiting for an **ASSOCIATE CHIEF OF STAFF** for Research and Development Service. Incumbent will direct a research program funded in excess of \$4 million annually. The R&D Service is closely affiliated and physically connected with the Vanderbilt University School of Medicine. Applicants should have a strong, independently funded research program, a national scientific reputation, and, preferably, an M.D. degree. Send letter and curriculum vitae to: **Dr. Achilles A. Demetriou, Chairman, Search Committee, Department of Veterans Affairs Medical Center, 1310 24th Avenue, South, Nashville, TN 37212-2637, Telephone: 615-327-4751, ext. 5356. Equal Opportunity Employer.**

BIOLOGY FACULTY. Colby-Sawyer College, a small independent 4-year college located in the beautiful Dartmouth-Lake Sunapee area of New Hampshire, is seeking an **ASSISTANT PROFESSOR** who has the ability to develop a program in biotechnology. Responsibilities include teaching cell biology, genetics, and participation in the introductory biology program, as well as research in areas of expertise with student participation encouraged. A Ph.D. or A.B.D. is required. Position is open September 1991. Screening of applications will begin immediately. Please send a letter of application, résumé, and the names of five references to: **Director of Human Resources, Department S, Colby-Sawyer College, New London, NH 03257. Equal Opportunity Employer.**

Join Wyeth-Ayerst Research, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our state-of-the-art Princeton, NJ research facility.

**Principal Scientist
CNS Pharmacology**

The CNS Division is seeking a Principal Scientist to join our interdisciplinary drug discovery team directed towards the identification of novel neuroprotective agents. The primary responsibilities of this position are to conceive, plan, implement and direct innovative research to discover agents effective in the treatment of stroke and dementia. Demonstrated excellence in this research area, effective leadership capabilities and a strong publication record are essential requirements for this position.

The successful candidate will have a Ph.D. in Pharmacology, Physiology, Neuroscience or a related discipline with up to five + years of postdoctoral experience. Direct pharmacological experience with *in vitro* and/or *in vivo* models of neuroprotection are required as is the motivation to publish the results of novel and innovative research activities.

Wyeth-Ayerst offers an excellent compensation and benefits package. Please forward resume with salary requirements to: **Wyeth-Ayerst Research, Personnel Manager, Position #331, CN 8000, Princeton, NJ 08543-8000.** An equal opportunity employer, M/F/H/V.



POSITIONS OPEN



Agricultural
Research
Service United States
Department of
Agriculture

The Catfish Genetics Research Unit, Agricultural Research Service, U.S. Department of Agriculture (USDA), in Stoneville, Mississippi, is accepting applications for the following position: **SUPERVISORY RESEARCH GENETICIST (RESEARCH LEADER)**, GM-440-13/14/15. Assignment presents an opportunity to conduct research on the genetics, breeding, culture, and management of catfish in mid-South environmental conditions to improve catfish germplasm for use as seed stock for commercial production. Applicants must have knowledge of animal genetics, preferably fish. *Must be a U.S. citizen.* Salary: \$44,348 to \$80,138 per annum based on qualifications and experience. B.S./M.S./Ph.D. or equivalent experience. Usual federal government benefits apply. For further information, contact: **Dr. J. Neil Rutger, 601-686-5266.** For application packet, call: **Mrs. Darlene Fowler, 301-344-3377, USDA, Greenbelt, Maryland.** Refer to **ARS-D1S-065** when inquiring about vacancy. Completed applications must be received by **30 April 1991.** *USDA is an Affirmative Action/Equal Opportunity Employer.*

ENGINEERING EDUCATION DIRECTOR

The National Research Council (NRC) is seeking a director for a new Board on Engineering Education which will assess the education environment, develop strategies for engineering education policies, and serve as a focus for the advancement of engineering education. Requires demonstrated knowledge of education issues, engineering curriculum, its diversity and institutional setting; Ph.D. or equivalent in an engineering discipline and at least 4 to 6 years of teaching or college/university administration experience; demonstrated policy analysis competence; understanding of socioeconomic, political, and global context of engineering education changing technologies, needs of industry. Also requires ability to interact with professional societies, formulate issues on the development of long-term strategies for engineering education, and good interpersonal as well as project and budget management, communication, and writing skills. Salary range: \$48,000 to \$79,500. Academics on sabbatical leave are also strongly encouraged to apply. Please send résumé in confidence to: **NRC/MSB, HA 270 (KP), 2101 Constitution Avenue, N.W., Washington, DC 20418.** *Equal Opportunity Employer.*

PRODUCT DEVELOPMENT MANAGER

Immediate full-time R&D position with a leading manufacturer of electrophoresis and molecular biology instruments. Responsible for the identification and development of new products. Ph.D. in molecular biology, biochemistry, or related; 0 to 2 years of experience. Industrial product development experience desirable. Send résumé to: **E-C Apparatus, 3831 Tyrone Boulevard North, St. Petersburg, FL 33709.**

PEDIATRIC PATHOLOGY

The Department of Pathology and Laboratory Medicine of Emory University is expanding its program in developmental and pediatric pathology at Eggleston Hospital for Children and Grady Memorial Hospital. We seek a pathologist or doctoral level scientist with clinical interest and expertise in one or more areas of pediatric or laboratory medicine. Candidates must have demonstrated commitment and productivity in a research program using modern techniques that are applicable to pediatric disease. Candidate will be expected to participate in medical student, resident, and fellowship training in pediatric pathology. Academic rank and salary are commensurate with qualifications. The closing date for receipt of applications is **1 April 1991.** Letter of application, curriculum vitae, and names of four persons from whom references may be obtained should be sent to:

Kenneth W. Sell, M.D., Ph.D.
Professor and Chairman
Department of Pathology
Room 701 WMB
Emory University
Atlanta, GA 30322

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

15 MARCH 1991

ASSOCIATE DIRECTOR Materials & Interfaces

Battelle, Pacific Northwest Laboratories (PNL), a multiprogram national laboratory for the rapid advancement of science and development of technology, has an immediate opportunity for a senior scientist to head a research program in the study of materials and interfaces (M&I).

As program leader, the successful applicant will be responsible for the operation of the M&I program as a national collaborative research center containing a core PNL staff of approximately 40 scientists, technical specialists, and students. This important program, soon to be housed in our new Environmental & Molecular Science Laboratory, will focus its research on the molecular level study of materials as related to a wide variety of environmental problems. Issues such as materials for waste storage, chemical separations and chemical sensors are important. We envision research to include materials synthesis of ceramics and systems that simulate model geographical materials, materials properties measurement of waste forms and the study of chemical reactions at materials interfaces.

Requirements for this position include international recognition as an outstanding contributor to surface and materials science, and the ability to create and lead a group which will build on that reputation. Excellent recruiting, line management, and fund development skills essential.

Send resume to: **Battelle, Pacific Northwest Laboratories, Dept. RZ-1060, P.O. Box 1406, Richland, WA 99352.** U.S. citizenship required. An Equal Opportunity Employer.



Battelle

...Putting Technology To Work

SCIENTIFIC ASSISTANT TO THE DIRECTOR AND CHIEF OF STAFF

Continuous Electron Beam Accelerator Facility (CEBAF)

CEBAF is the nation's highest priority nuclear physics research facility under construction in Newport News, Virginia. CEBAF is managed by the Southeastern Universities Research Association (SURA), a consortium of forty universities in the Southeast, under contract with the Department of Energy.

The incumbent will:

- Devise and complete such technical and non-technical initiatives as are required in the Director's Office to accomplish laboratory program goals;
- Supervise a staff of seven in such areas as: institutional planning, internal and external institutional relationships, planning and coordination of major technical reviews, and management of major Laboratory publications and the Laboratory's public information program;
- Assist the Director in analyzing the Laboratory's budget to ensure that resources are allocated so as to meet major program and project milestones;
- Manage the priorities and resources of the Director's Office, and
- Manage the daily internal and external Director's Office agenda.

The qualifications for this position are: an advanced degree or its equivalent in specialized training or experience (a Master's or Doctoral degree in a scientific discipline related to the Laboratory's mission is desirable, but not a prerequisite for the appointment); ten years of related professional experience in a scientific research organization, at least three years of which must have been at the senior supervisory staff level, and superior communication skills.

The current salary range for this position is \$45,000 to \$66,000 per annum. Relocation benefits will be provided.

The laboratory plans to fill this position by May 1, 1991: please send a current resume, with salary history, and technical and non-technical writing samples to: **Employment Manager, CEBAF, 12000 Jefferson Avenue, Newport News, VA 23606.** An Equal Opportunity, Affirmative Action Employer

CEBAF

The Continuous Electron Beam Accelerator Facility

CHIEF OF MEDICAL ONCOLOGY

**Massachusetts General Hospital
and Harvard Medical School**



Massachusetts General Hospital and Harvard Medical School are seeking a professor of medicine to serve as Chief of the Medical Oncology Unit at the Massachusetts General Hospital. The successful candidate must be an established, nationally known oncologist and investigator with proven ability as a leader and administrator who is effective in directing a complex array of clinical activities in medicine and cancer care, and effective in obtaining and maintaining clinical research funding. This individual will be expected to take the major role in the clinical and research components of the mission of the Department of Medicine and the Hospital in cancer care and will help coordinate efforts in research and teaching programs in oncology with other units in Medicine, other Departments and with the Director of the Cancer Center. This individual must be an able clinician/teacher, who has demonstrated the skills necessary to direct a large and multi-faceted program in cancer.

Responses, including CV, should be sent to: John T. Potts, Jr., M.D., Chairperson, Search Committee, Medical Services, Massachusetts General Hospital, Boston, MA 02114. Harvard Medical School and the Massachusetts General Hospital are Affirmative Action/Equal Opportunity Employers. Women and minority candidates are encouraged to apply.



CHEMISTRY REVIEW DIVISION DIRECTORS U. S. GOVERNMENT FOOD AND DRUG ADMINISTRATION

The Center for Drug Evaluation and Research, Offices of Generic Drugs, Divisions of Chemistry I and II, have two Supervisory Chemist positions, GM-1320-15, available for senior technical managers with experience in the development, manufacture, and/or testing of drugs and antibiotics. Experience related to pharmaceuticals is essential. Work involves assuring consistent, efficient, and scientifically rigorous reviews of Abbreviated New Drug Applications as well as managerial responsibilities.

Qualifications Required:

Applicants must possess or have education and experience equivalent to a degree in the physical or life sciences which includes 30 semester hours in chemistry. Candidates with either a Ph.D. or M.S. degree are preferred.

Salary Range:

\$61,643 - \$80,138 per year depending upon qualifications.

Positions Available:

These permanent positions are available immediately. Commission in the U. S. Public Health Service and commensurate pay scale may also be possible. U.S. citizenship is required.

Applications:

Submit current curriculum vitae or U.S. Government application form (SF-171) to:

DHHS/PHS

Food and Drug Administration
Center for Drug Evaluation and Research
5600 Fishers Lane, Room 15-22
Rockville, Maryland 20857
Attention: Rhonda S. Alderman
Telephone: 301-443-0553

AN EQUAL OPPORTUNITY EMPLOYER

CELL BIOLOGIST

Merck Sharp & Dohme Research Laboratories has a challenging opening within the Department of Immunology & Inflammation Research in its Department of Autoimmune Diseases Research, which is currently developing novel therapeutic agents directed at the regulation of autoimmune diseases. The candidate must have a PhD or MD, two or more years of post-doctoral experience, and a sustained record of productivity. The successful applicant will work in collaboration with other scientists to study the molecular events involved in the generation of antigenic peptides, their association with MHC class II molecules, and transport of processed antigens. A strong background in cell biology, biochemistry, and immunology is required.

Merck Sharp & Dohme Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume and the names of three references to: Human Resources Manager (R80-A3), Attn: AD #67, P.O. Box 2000, Rahway, NJ 07065.

AN EQUAL OPPORTUNITY EMPLOYER



Merck & Co., Inc.

RESEARCH SCIENTIST

The Department of Anesthesiology at the Nassau County Medical Center is seeking an individual to:

1. Conduct a program of appropriate independent investigation;
2. Plan and supervise the expansion of our present research laboratory facilities;
3. Maintain and supervise our vascular smooth muscle laboratory;
4. Assist the Departmental Staff with research projects;
5. Participate in didactic program for residents.

A Ph.D. degree, good communication and data analysis skills, computer programming knowledge, and publication record are necessary.

The Nassau County Medical Center, located on Long Island, is a 615 bed teaching hospital affiliated with the State University of New York at Stony Brook. Qualified individuals are eligible for academic appointments at that institution.

As public employees of Nassau County, Research Scientists receive excellent salary, benefits and job security. Interested candidates should send their CV and the names of three references in confidence to:

KENNETH J. FREESE, M.D.
Chairman
Department of Anesthesiology



**NASSAU COUNTY
MEDICAL CENTER**
2201 Hempstead Tpke.
East Meadow, NY 11554

Nassau County is an Equal Opportunity Employer

LINKING CHEMIST



**CellPro,
Incorporated**

Located in the Seattle area, CellPro is an early stage biotechnology company which is designing, manufacturing, and selling affinity cell separation devices for use in the medical and research industry. Integral to the Company's success will be the development of both the linking chemistry to polymer surfaces and the assays for evaluating these processes.

To help us accomplish our mission, we are seeking a Ph.D. with at least three years' post doctoral laboratory experience involved in covalently linking proteins to polymer surfaces.

Send Resume to:

Human Resources Administrator
CELLPRO, INCORPORATED
22322-20th Avenue S.E., #100
Bothell, WA 98021-8446

UNIVERSITY OF HONG KONG

Teaching Posts in Animal and Plant Biotechnology,
Food and Nutritional Science, and Environmental Science

The Departments of Botany and Zoology in the Faculty of Science are launching in September, 1991 major new collaborative teaching programmes in the B.Sc. curriculum in the fields of Animal and Plant Biotechnology and Food and Nutritional Science. In addition, the existing Environmental Science programme in the same curriculum is to be enlarged.

New posts are being established to cover these new/expanded areas of teaching. Appointees will be expected to contribute where possible to the teaching of one or more of these programmes but may also be required to teach on existing courses offered by the two departments.

Applications are now invited for Lectureships in these areas. Applicants should hold or be about to obtain a Ph.D. and should ideally have teaching and research experience in the fields specified.

1. **Animal and Plant Biotechnology** (Ref. 90/91-71): basic biological principles as well as downstream processing.
2. **Food and Nutritional Science** (Ref. 90/91-72): food production systems, nutritional studies, food analysis, fishery products, gastroenterology, etc.
3. **Environmental Science** (Ref. 90/91-73): vertebrate biology, population genetics, ethology, conservation biology, entomology, pollution monitoring, environmental management, etc.

An appropriate record of publication is essential.

Annual salary (superannuable) is on an 11-point scale: HK\$279,900-467,700 (approx. US\$1=HK\$7.80 as at February 12, 1991). 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 (39031), Association of Commonwealth Universities, 36 Gordon Square, London (WC1H 0PF, UK; or from the Appointments Unit, University of Hong Kong, Hong Kong (Fax (852)-5592058; E-mail APPTUNIT@HKUVM.HKU.HK). Closes **15 April 1991**.

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Massachusetts Institute of Technology

is seeking a

Dean of the School of Science

to take office July 1, 1991

Please send nominations or expressions
of interest by March 31 to

Chairman, Advisory Committee

for the Dean of Science

Office of the Provost

MIT, Room 3-208

77 Massachusetts Avenue
Cambridge, Massachusetts
02139

MIT

MIT is an Equal Opportunity/
Affirmative Action Employer

ANIMAL ECOLOGISTS

EG&G ENERGY MEASUREMENTS, INC. is expanding its staff of research ecologists to support existing Department of Energy environmental programs at the Elk Hills Naval Petroleum Reserve (Bakersfield, California). Projects focus primarily on assessing impacts of development on habitat and population dynamics of the endangered San Joaquin kit fox, blunt-nosed leopard lizard, giant kangaroo rat, and Tipton's kangaroo rat. Scientists will participate in interdisciplinary community ecology studies, threatened/endangered species studies, and impact assessment and mitigation.

Applicants should have experience in animal-handling techniques, collecting data, and using computers. Applicants should also have the ability to work independently and possess effective oral and written skills. Prior experience with plants and animals of the San Joaquin Valley is desired.

SCIENTIFIC SPECIALIST: The candidate will provide scientific expertise in the development and implementation of research projects designed to gather information about endangered species at NRPC; develop management measures to conserve endangered species on site; assist a team of ecologists in analyzing data and preparing reports; and assist DOE/NRPC in compliance with the Endangered Species Act. Minimum requirement: BS plus 8 years experience (or equivalent experience may be considered - advance degree preferred)

SECTION HEAD II: The candidate will be responsible for management of activities conducted by the Population Monitoring Section at NRPC. Duties include supervising scientific and technical staff, participating in study design and data collection, modifying or developing new procedures to achieve project objectives, data analysis and report preparation, and budget control and forecasting. Minimum requirement: BS plus 6 years experience (or equivalent experience may be considered - advance degree preferred)

SCIENTIST III: The candidate will assist in the designing of extensive ecological research projects and participate in data collection, analysis and report preparation. Projects include a kit fox relocation study, artificial kit fox den study, a study to examine the effects of food supply on kit foxes, and monitoring kit fox population dynamics. The candidate will be expected to assist in the development of future research activities that will assist DOE/NRPC in compliance with the Endangered Species Act. Minimum requirement: BS plus 4 years experience (or equivalent experience may be considered - advance degree preferred)

SCIENTIST I: The candidate will assist staff scientists with research on impacts of oil field development at NRPC by conducting field research to monitor kit fox population size, population trends of fox predators and prey, monitoring radiocollared foxes, conducting preactivity surveys, and providing laboratory assistance for necropsying dead animals and collecting biological samples. Minimum requirement: BS (or equivalent experience may be considered)

Qualified candidates send resume or apply to:

EG&G ENERGY MEASUREMENTS, INC.
Santa Barbara Operations
Attn: Technical Recruiting
130 Robin Hill Road
Goleta, California 93117
(805) 967-0456

Female and minority applicants are encouraged to apply. A pre-employment physical which includes drug screening and U. S. citizenship required. An equal opportunity employer.

POSITIONS OPEN

UNIVERSITY OF HONG KONG LECTURER IN PHYSIOLOGY (REF. 90/91-69)

Applications are invited for a lectureship in the Department of Physiology. The appointee will be required to participate in the teaching of physiology to dental, medical, and speech and hearing sciences students. Preference will be given to applicants with higher degrees in physiology or medical or dental degrees.

Annual salary (superannuable) is on an 11-point scale: HK\$279,900 to HK\$467,700 (approximately US\$1 = HK\$7.80 as of 6 February 1991). 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 (39030), Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0PF, U.K.**, or from: **Appointments Unit, University of Hong Kong, Hong Kong. FAX: 852-5592058. E-mail: APPTUNIT@HKUVM.HKU.HK** Closes 15 April 1991.

CAREER SCIENTIST (TENURE-TRACK FACULTY). Position with primary appointment in the Department of Anesthesiology and possible joint appointment in a basic science department. Candidate should possess a Ph.D., M.D., or equivalent degree with postdoctoral experience and demonstrated ability to attract extramural research funding. Primary research interests should be in the areas of molecular pharmacology, physiology, or biochemistry with direct or indirect applicability to anesthesiology, critical care medicine, or pain management. Generous laboratory space and start-up funds provided. Academic rank will be determined by qualifications. Established investigators are especially encouraged to apply. Please send a description of research interests, curriculum vitae, and names and telephone numbers of three references to: **P. R. Housmans, M.D., Ph.D., Mayo Medical School, Rochester, MN 55905** by 1 May 1991. *Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.*

CHEMISTRY INSTRUCTORS. Scott Community College. Qualified applicants will possess a minimum of a master's degree in chemistry and demonstrate a strong commitment to teaching and an educational philosophy consistent with the mission of the community college. Previous teaching experience is highly desirable. Teaching responsibilities will include courses in both general and organic chemistry. Deadline for application: 1 April 1991.

ANATOMY AND PHYSIOLOGY INSTRUCTOR. Scott Community College. Qualified candidates will possess a minimum of a master's degree in anatomy, physiology, or a closely related field and demonstrate a strong commitment to teaching and an educational philosophy consistent with the mission of the community college. Previous teaching experience is highly desirable. Teaching responsibilities will include courses in a two-semester sequence of anatomy and physiology. The ability to teach a course in general microbiology would also be an asset. Deadline for application: 1 April 1991.

CHEMISTRY/BIOLOGY INSTRUCTOR. Clinton Community College. Master's degree in one area with concentration in other area required. Doctoral degree preferred. Teach chemistry and biology courses. Deadline for application: 1 April 1991.

Please submit a letter of application addressing your qualifications for the position and a current résumé. Direct responses and inquiries to: **Human Resources Department, Eastern Iowa Community College District, 306 West River Drive, Davenport, IA 52801-1221.** *Equal Opportunity Employer.*

NUTRITIONAL BIOCHEMISTRY/FOOD SCIENCE FACULTY. Tenure-track faculty in the Department of Nutrition and Food Science with rank open. Responsibilities include vigorous research program with extramural funding and teaching at graduate and undergraduate levels. There are excellent opportunities for collaborative research. Candidates should submit complete curriculum vitae, a statement of research plan, and names of three references to: **Dr. Leora A. Shelef, Chair, Department of Nutrition and Food Science, 160 Old Main, Wayne State University, Detroit, MI 48202.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

FACULTY POSITION IN RESEARCH/HISTOLOGY

The University of Tennessee, College of Veterinary Medicine, is accepting applications for a full-time, tenure-track faculty position in research/histology at the **ASSISTANT/ASSOCIATE PROFESSOR** level. Persons applying should possess the Ph.D. and/or D.V.M. degree and have suitable training or experience. Applications will be reviewed 1 May 1991 and thereafter until the position is filled. The successful candidate will conduct original funded research in the area of his/her specialty, participate in teaching in a team-taught two-semester microscopic anatomy sequence for veterinary students, and teach relevant graduate courses. Collaboration with other faculty and the supervision of graduate students is strongly encouraged. Salary is commensurate with experience and qualifications. *Women and minorities are encouraged to apply.* Qualified applicants are invited to submit a letter of application, current curriculum vitae, and three letters of reference to: **Dr. T. P. McDonald, Chair of the Search Committee, Department of Animal Science, College of Veterinary Medicine, The University of Tennessee, P.O. Box 1071, Knoxville, TN 37901-1071.** *An Equal Opportunity/Affirmative Action Employer.*

TWO FACULTY POSITIONS HUMAN GENETICS PROGRAM DEPARTMENT OF PEDIATRICS NEW YORK UNIVERSITY MEDICAL CENTER

This recruitment is part of the reorganization of the Department of Pediatrics to emphasize investigation on the genetic basis of pathogenesis and treatment of human disease. These programs are being developed to occupy a place in the Skirball Institute for Biomolecular Medicine, for which a new research building is currently under construction.

New faculty members will be provided with adequate resources for developing their investigational careers. The level of appointment will be commensurate with previous experience. Candidates should have demonstrated competence for independent investigation by appropriate doctoral and postdoctoral training. They should also be Board-certified or eligible for certification by the American Board of Medical Genetics. It is anticipated that the earliest appointments would be in July 1991.

Candidates should apply in writing and include a letter describing research accomplishments and long-term plans, names of three references, and curriculum vitae. These should be sent to: **Harry Ostrer, M.D., Human Genetics Program, Department of Pediatrics, New York University Medical Center, 550 First Avenue, New York, NY 10016.**

TWO FACULTY POSITIONS UNIVERSITY OF SOUTHERN CALIFORNIA

Applications are invited for two tenure-track **ASSISTANT/ASSOCIATE PROFESSOR** positions in the Department of Pharmaceutical Sciences, School of Pharmacy. Outstanding candidates with research interests in aspects related to membrane biophysics, structural biology, or protein/drug transport and trafficking are sought to join our established multidisciplinary program in drug targeting and drug design. Applicants are expected to possess a Ph.D. degree in the pharmaceutical, biological, or chemical sciences. Participation in team teaching in either pharmaceuticals or medicinal chemistry at both the undergraduate and graduate levels is required.

The positions will be available on 1 July 1991. The search committee will begin screening applications on 22 April 1991, and will continue to receive applications until the positions are filled. Please submit curriculum vitae, selected reprints, a short statement of future research plan, and the names and addresses of three references to: **Vincent H. L. Lee, Ph.D., University of Southern California, John Stauffer Pharmaceutical Sciences Center, 1985 Zonal Avenue, Los Angeles CA 90033-1086.**

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FREE PRODUCT INFORMATION SERVICE. Send a letter stating the specifics about your new laboratory and *Science* will put you in touch with the vendors whose products you will need. Write to: **SCIENCE New Lab Service Department, 1515 Broadway, New York, NY 10036.**

POSITIONS OPEN

FACULTY POSITION. University of California San Francisco. Applications are invited for a tenured position at the rank of **ASSOCIATE PROFESSOR** to participate in the activities of the Departments of Medicine and Pharmaceutical Chemistry. Candidates should have an M.D./Ph.D. and be Board-certified in internal medicine. The successful candidate should have a strong research program in the area of macromolecular structure and the application of structural principles to problems in pharmaceutical design. Demonstrated teaching skills as a graduate lecturer and a medical ward attending are essential. Please send curriculum vitae and three references to the chair of this committee, **John D. Baxter, M.D., Professor of Medicine, Box 0516, University of California, San Francisco, CA 94143.** *The University of California is an Affirmative Action Employer. Women and minorities are encouraged to apply.*

ENVIRONMENTAL SCIENCE FACULTY POSITION

Applications for a tenure-track position at the rank of **ASSISTANT/ASSOCIATE/FULL PROFESSOR** are invited from candidates with a background in environmental sciences or related field with an emphasis on environmental and public health. Ph.D. and postdoctoral experience or equivalent required. Strong commitment to graduate education through development of teaching and research activities is necessary. Send letter of application, curriculum vitae, names, addresses, and telephone numbers of three references, and a statement of research interests and goals by 30 April 1991 to: **Joan B. Rose, Ph.D., University of South Florida (USF) College of Public Health, 13301 Bruce Downs Boulevard, Tampa, FL 33612.** According to Florida Law, applications and meetings regarding the search are open to the public. *USF is an Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.*

The University of Illinois at Urbana-Champaign invites applications for a tenure-track **FACULTY POSITION** in muscle biology in the Department of Animal Sciences. The candidate will be expected to develop and fund a strong research program, to direct both M.S. and Ph.D. students, and to participate in graduate and undergraduate teaching. Qualifications must include a Ph.D. in animal sciences/food science or a related field with expertise in muscle biochemistry, muscle physiology, or muscle metabolism. Postdoctoral experience would be desirable. Modern biochemical laboratories with cell culture facilities, complete pilot plant with abattoir, and excellent facilities for work with laboratory and meat animals will be available to the successful candidate. Salary commensurate with qualifications and experience. Candidates should submit a letter of intent, up-to-date curriculum vitae, and three letters of reference to: **D. R. Campion, Head, Department of Animal Sciences, University of Illinois at Urbana-Champaign, 1301 West Gregory Drive, Urbana, IL 61801, telephone: 217-333-3462** by 15 May 1991 or until a suitable candidate is found. *The University of Illinois is an Affirmative Action/Equal Opportunity Employer.*

POSTDOCTORAL POSITION. Available immediately for doctoral-level candidate to work with the direction of Dr. J. K. Hilliard in our Department of Virology and Immunology. Studies to elucidate basic genomic organization and physical mapping of nonhuman primate herpesvirus DNA's to produce/characterize recombinant probes and gene expression products. Candidates must have experience in recombinant DNA technology. Salary ranges from \$22,339. Send curriculum vitae and names of three references to: **Personnel Director (107), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147.** *Equal Opportunity Employer, M/F.*

POSTDOCTORAL POSITIONS. NIH-funded postdoctoral research fellowships are available to study the cell and molecular biology of inflammation. Ongoing research projects focus on regulation of transcription of cell adhesion molecules, molecular regulation of lipid mediator biosynthesis, and cytokine-regulated leukocyte movement and activation. Applicants who hold a Ph.D. or M.D. should send curriculum vitae and references to: **M. J. Holtzman, Co-Director, Respiratory and Critical Care Division, Washington University School of Medicine, 660 South Euclid, Box 8052, St. Louis, MO 63110.** *Washington University School of Medicine is an Affirmative Action/Equal Opportunity Employer. We encourage applications from minorities and women.*

POSITIONS OPEN

POSTDOCTORAL POSITION. Available to study integrin regulation of gene expression. Background in protein chemistry and/or molecular biology desirable. Salary is competitive and U.S. citizens or permanent residents may be appointed to an NIH-sponsored training grant. Send curriculum vitae, relevant reprints, and three letters of recommendation to: **Dr. Stephen Haskell, Lineberger Comprehensive Cancer Center, University of North Carolina, Chapel Hill, NC 27599-7295. Equal Opportunity/Affirmative Action Employer.**

TWO POSTDOCTORAL POSITIONS. Available immediately. To use steady-state and presteady-state kinetic analyses, spectroscopy, and electrochemistry to study the mechanistic enzymology of either anaerobic CO₂ fixation or bioremediation. Expertise in these areas desired. Interested applicants should send curriculum vitae and names of three references to: **Stephen W. Ragsdale, Department of Chemistry, P.O. Box 413, University of Wisconsin, Milwaukee, WI 53201.**

POSTDOCTORAL POSITION. Available to participate in the large-scale purification of siderophore receptor membrane proteins and the physical and chemical study of their properties. Ph.D. in chemistry, biochemistry, or microbiology. Experience with FPLC protein purification is essential. Send curriculum vitae and the names of three references to: **Dr. D. van der Helm, Department of Chemistry and Biochemistry, University of Oklahoma, Norman, OK 73019-0370. FAX: 405-325-6111. Telephone: 405-325-5831.**

TWO POSTDOCTORAL POSITIONS IN PLANT MEMBRANE BIOLOGY

To understand the molecular structure, function, and regulation of (i) Ca transporters (Ca-ATPases, H⁺/Ca antiporter) or calcium channels, and (ii) the vacuolar H⁺-ATPase from plants, using biochemical and molecular approaches, including purification, reconstitution, and cloning (*J. Biol. Chem.* 262, 3944; 263, 16731). Send curriculum vitae, publications, transcripts, and names of three references by 31 March 1991 to: **Heven Sze, Department of Botany, University of Maryland, College Park, MD 20742. FAX: 301-314-9082.**

POSITIONS OPEN

POSTDOCTORAL POSITION. A position is available to study monocyte-specific cytokine/receptor interactions at the molecular level. Experience in molecular biology techniques is required. Send curriculum vitae and the names of three references to: **Dr. Barrett Rollins, Dana-Farber Cancer Institute, 44 Binney Street, Boston, MA 02115. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION. Available to study the role of heat shock proteins in steroid hormone action. Experience in biochemistry and/or molecular biology required. *Must be U.S. citizen or permanent resident.* Please send curriculum vitae and the names of three references to: **Dr. Clark W. Distelhorst, Department of Medicine, Case Western Reserve University, Cleveland, OH 44106. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION IN PLANT COMMUNITY ECOLOGY

The University of Georgia's Savannah River Ecology Laboratory has a postdoctoral position in plant community ecology. The position will have prime responsibility for the plant community response in a new multi-investigator research program concerned with the impact of current and anticipated forest management activities on forest biodiversity. Experience in contemporary plant community analysis techniques, southeastern forest ecosystems, and forest land management practices are essential. Managed habitats range from bottomland hardwood to loblolly and longleaf pine plantations to longleaf pine-scrub oak forests. Candidates must have completed their Ph.D. degrees and be U.S. citizens. A strong field orientation is essential. Salary is negotiable, depending on ability and experience. The ability to work collaboratively with and supervise other personnel will be weighed heavily in evaluating candidates. Applicants should send résumés, statements of research and career objectives, and the names, addresses, and telephone numbers of three references to: **Dr. Kenneth W. McLeod, Savannah River Ecology Laboratory, P.O. Drawer E, Aiken, SC 29802. Applications will be accepted until the position is filled. An Equal Opportunity/Affirmative Action Institution.**

POSITIONS OPEN

POSTDOCTORAL POSITIONS. Available immediately in the Institute of Molecular Biology, Academia Sinica. Areas of current research include regulatory elements and gene expression, especially in plant molecular biology, molecular virology, parasitology, oncology and immunology, cell biology, molecular biology of development, and structural biology. Salaries are internationally competitive. Free housing. Detailed information on request. Send letter, curriculum vitae, and names of three references to: **I.M.B., Academia Sinica, Nankang, Taipei 11529, Taiwan, R.O.C.**

The Beckman Laser Institute and Medical Clinic, University of California, Irvine, is seeking to fill **POSTDOCTORAL POSITIONS** (Ph.D. or M.D./Ph.D.) in the areas of photochemistry, biophysics, cell biology, oncology, cardiology, and surgery. Candidates should have interest or experience in working with lasers.

Please reply to: **Michael W. Berns, Ph.D., Beckman Laser Institute and Medical Clinic, University of California, Irvine, 1002 Health Sciences Road East, Irvine, CA 92715. The University of California, Irvine, is an Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION. Available immediately to study expression and regulation of proteases and protease inhibitors. Background in cell/molecular biology would be helpful. Send curriculum vitae and names and addresses of three references to: **Dr. David H. Perlmuter, Department of Pediatrics, Cell Biology, and Physiology, Washington University School of Medicine, 400 South Kingshighway Boulevard, St. Louis, MO 63110.**

POSTDOCTORAL POSITION. One-year position to work on incorporating foraging theory into population ecological models. Ph.D.'s in math or ecology are encouraged to apply. Starting date: between 1 July and 30 September 1991; Salary: \$23,000 per year. Send curriculum vitae, statement of research interests, and reprints before 15 April 1991 to: **Peter Abrams, Department of Ecology, Evolution, and Behavior, University of Minnesota, 318 Church Street, S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.**

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Ph. D or post doctoral level

The successful candidate has long experience in receptor binding techniques and autoradiography. Experience in industry is welcome but creativity and independence are more important. Experience with peptide receptors is of advantage.

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27, route des Gardes - 92190 MEUDON - FRANCE

CONFERENCE DIRECTOR THE NEW YORK ACADEMY OF SCIENCES

The New York Academy of Sciences, with an international membership of 35,000 scientists, promotes science through its conferences, lectures, and publications, its work with schools, and the recognition of outstanding achievement in all areas of science.

The conference department plans 18 to 20 conferences per year, which are held in the U.S. and abroad.

Candidates for this position must hold a Bachelor's degree and meet the following requirements:

- A proven record of conference acquisitions.
- A proven record of proposal writing and fundraising.
- A minimum of 5 years experience in conference design and meeting management.
- Excellent follow-through and supervisory skills.
- Excellent public relations skills, including demonstrated oral and written proficiency.
- The ability to work well with people at all levels, including scientific organizations and committees.

A background in science is desirable, but not required.

The position is year-round with 4 weeks vacation each year. Salary is competitive and based on qualifications and experience. Excellent benefits package.

Qualified candidates must send a letter describing experience and qualifications along with a resume and three references to:

**ADMINISTRATIVE DIRECTOR
The New York Academy of Sciences
2 East 63rd Street
New York, NY 10021**

Complete information must be received by
April 8, 1991. NO PHONE CALLS PLEASE.

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THOMAS JEFFERSON UNIVERSITY

Jefferson Cancer Institute,
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Molecular Genetics, Immunology, Microbiology, Molecular Pharmacology and Structural Biology

Students will take a common core curriculum consisting of courses in biochemistry, molecular biology and cell biology, followed by specialized courses in their particular area of concentration, leading to a Ph.D. degree in Genetics, Microbiology/Immunology, or Pharmacology. Facilities include oligonucleotide synthesis and automated DNA sequencing, peptide synthesis and microsequencing, cytometry and transgenic mouse production, two-dimensional nuclear magnetic resonance, X-ray crystal structure analysis, molecular modelling and graphics, utilizing high performance Silicon Graphics and Convex computers.

Current areas of research interest of the faculty include:

Molecular genetics of growth control, oncogene activation and cancer suppression (Drs. David Abraham, Renato Baserga, Timothy Block, Arthur Buchberg, Bruno Calabretta, Eli Canaani, Linda Cannizzaro, Mann-Jy Chen, Carlo Croce, Garrett DuBois, Robert Korngold, Danuta Kozbor, W. Edward Mercer, Veena Rao, E. Shyam Reddy, Linda Siracusa, and Tapan Som)

Genome structure and transcriptional and developmental regulation (Drs. Martyn Darby, Tadaatsu Goto, Kay Huebner, Eric Kmiec, Alexander Mazo, and Laura Steel)

Molecular and structural biology of receptors and signal transducers (Drs. Jeffrey Benovic, Catherine Calkins, Thomas Friele, Robert Harrison, Bradford Jameson, Madhu Kalia, James Keen, Gerald Litwack, Bice Perussia, Wolfgang Vogel, and Irene Weber)

Mechanisms of DNA repair and chemical carcinogenesis (Drs. Jon deRiel and David Jensen)

Thomas Jefferson University has an excellent library system and is located in an attractive and historic part of Center City Philadelphia. Recreational facilities including gyms and a full-size pool are available on the campus. Students accepted into the program will be provided with predoctoral support including waiver of tuition and a stipend of \$14,000 per year. For interested and qualified students, an M.D./Ph.D. program is available.

For further information regarding September 1991 entrance call Joanne Balitzky at (215) 221-2399 or write:



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University

Joint Graduate Programs
College of Graduate Studies
Thomas Jefferson University
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Philadelphia, PA 19107-6799

PCR DNA PROBE DIAGNOSTICS

Several opportunities have recently become available for researchers interested in joining Hoffmann-La Roche's DNA probe development program. A multidisciplinary group is in place, and is developing semiautomated and automated assays for the detection of viral and bacterial pathogens, using the polymerase chain reaction (PCR).

GROUP LEADER: Heads a group responsible for the development of infectious disease diagnostic assays. PhD, experience in the development of DNA probe assays and at least five years of industrial experience are required. Please refer to Position JL-GL on resume.

SENIOR SCIENTIST: This position involves bacterial or viral assay development. PhD or MS/BS with well developed skills and scientific experience required; industrial experience preferred. Please refer to Position JL-SS on resume.

SCIENTIST: Develop DNA probe diagnostic products. BS or MS and a solid research background in one or more of the following areas required: diagnostic assay development, microbiology/virology, biochemistry or molecular biology. Please refer to Position JL-SC on resume.

We offer competitive salaries commensurate with experience and education, a generous benefits package and the opportunity to join the leading edge of scientific research. For confidential consideration, please send your resume, indicating the code for your position of interest and present salary (those without this information will not be acknowledged), to: **Mrs. Eleanor M. Malone, Staffing and Employee Services, Department EM051JL, Hoffmann-La Roche Inc., Nutley, New Jersey 07110.** We are an equal opportunity employer.



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POSITIONS OPEN

POSTDOCTORAL POSITIONS

Postdoctoral positions are available in the Epstein-Barr virus (EBV) group laboratories at St. Jude Children's Research Hospital (SJCRH), Memphis. SJCRH is deeply committed to biomedical research, with a large basic science division consisting of the Departments of Biochemistry, Tumor Cell Biology, Immunology, Pharmacology, and Virology and Molecular Biology, supported by a state-of-the-art Molecular Resource Center and other excellent facilities. In April 1991, we will move to a new 240,000-square-foot research building. Highly attractive stipends in the form of 3-year institutional fellowships will be awarded on a competitive basis. An understanding of basic molecular biological techniques and experience in cell culture are desired but not necessary; training in advanced molecular biology/virology/immunology will be provided. Faculty research interests are:

- **Dr. John Sixbey:** EBV pathogenesis
- **Dr. Cliona Rooney:** Deregulation of EBV gene expression in virus-induced disease
- **Dr. Clare Sample:** Mechanisms of lymphocyte transformation by EBV
- **Dr. Jeff Sample:** Regulation of EBV gene expression in B lymphocytes and Burkitt lymphoma

Applicants should send a brief statement of research interests, curriculum vitae, and the names, addresses, and telephone numbers of three references to one of the above individuals at: **Department of Virology and Molecular Biology, St. Jude Children's Research Hospital, 332 North Lauderdale, P.O. Box 318, Memphis, TN 38101.**

Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN PERINATAL METABOLISM

Available to study developmental molecular biology of insulin action in mammalian species. Joint training and collaboration with Dr. Richard Hansen, Chairman, Department of Biochemistry, Case Western Reserve University School of Medicine. Studies to include determination of insulin-sensitive gene transcription and transgenic mammalian models of developmental insulin action. Background: biochemistry, molecular biology, and analytical laboratory methods helpful. Position open to Ph.D. or M.D. with laboratory experience. Send curriculum vitae and names of three references to: **Dr. Robert M. Kliegman, Department of Pediatrics, Case Western Reserve University, Rainbow Babies and Childrens Hospital, 2074 Abington Road, Cleveland, OH 44106.**

POSTDOCTORAL POSITION, MOLECULAR RETROVIROLOGY. Available immediately to participate in multi-investigator study of the molecular mechanisms of type D simian retrovirus (SRV)-induced immunodeficiency (simian AIDS). The project involves the molecular cloning, sequencing, and site-directed mutagenesis of several pathogenic type D SRV serotypes and nonpathogenic variants. The successful candidate is required to have experience in recombinant DNA technology and background in retrovirology, preferably with simian retroviruses. Salary will be commensurate with experience. Excellent location, modern open laboratory-design research facility, and joint appointments in the Division of Neuroscience and Primate Medicine available. Send curriculum vitae and three references to: **Dr. Curtis A. Machida, Division of Neuroscience, Oregon Regional Primate Research Center (ORPRC), 505 N.W. 185th Avenue, Beaverton, OR 97006. Telephone: 503-690-5509. FAX: 503-690-5384. The ORPRC is an Equal Opportunity/Affirmative Action Employer.**

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POSITIONS OPEN

POSTDOCTORAL POSITION. Available to study Rickettsia-host interaction. Experience in bacteriology and molecular biology is essential. Please send curriculum vitae and names of three references to: **Dr. Abdu F. Azad, Department of Microbiology and Immunology, University of Maryland School of Medicine, 655 West Baltimore Street, Baltimore, MD 21201.**

POSTDOCTORAL POSITION. Available in September to join in the investigation of the mechanisms of gene expression in trypanosomes. We are working toward understanding mRNA transcription and RNA splicing signals using DNA transfection technology and molecular genetics. Experience in molecular biology is required. Send curriculum vitae and two letters of reference to: **Dr. Vivian Bellofatto, Laboratory of Molecular Parasitology, The Rockefeller University, 1230 York Avenue, New York, NY 10021.**

ROCKEFELLER UNIVERSITY POSTDOCTORAL POSITION

Available immediately to participate in research on the molecular basis of lymphocyte-mediated killing. Project emphasizes biochemical and molecular biological approaches to characterize proteins and/or genes involved in cell death. Applicants should have a strong background in one or more of the following: molecular biology, protein expression and purification, membrane biology. Ph.D. in chemistry, biochemistry, cell biology, or molecular biology desirable. Send curriculum vitae and the names of at least two references to: **D. M. Ojcius, Laboratory of Cellular Physiology and Immunology, The Rockefeller University, 1230 York Avenue, New York, NY 10021-6399.**

POSTDOCTORAL POSITIONS IN DRUG ABUSE RESEARCH

The NIDA Addiction Research Center is the intramural research program of the National Institute of Drug Abuse. IRTA and visiting fellowship positions are available in the Behavioral Pharmacology and Genetics Laboratory. One or more positions will be available in a recently established rhesus monkey self-administration and physical dependence laboratory. Additional positions are available to study the cardiovascular effects of abused drugs, behavioral assessment of transgenic mice, and/or biochemical changes associated with chronic drug administration. Experience with intravenous drug self-administration, drug discrimination procedures, neurochemistry, genetics, computers, and/or primates (rhesus and squirrel) is desirable, but not essential. Duties include conducting experiments and writing manuscripts and reports. A Ph.D. is required, preferably in pharmacology or psychology. For the IRTA Fellowships, *U.S. citizens* who have less than 3 years of postdoctoral experience are eligible. For the visiting fellowship, *foreign nationals* with less than 3 years relevant postdoctoral experience are eligible. Salary ranges from \$25,000 to \$29,000 depending on experience. *The NIDA Addiction Research Center is an Equal Opportunity Employer and specifically invites and encourages applications from women, minorities, and the handicapped.*

If interested, please send curriculum vitae and statement of interest to:

**Dr. Steven R. Goldberg, Chief
Behavioral Pharmacology and Genetics Laboratory
NIDA Addiction Research Center
P.O. Box 5180
Baltimore, MD 21224**

The Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) is an Equal Opportunity Employer. ADAMHA is smoke-free.

YALE UNIVERSITY SCHOOL OF MEDICINE DEPARTMENT OF THERAPEUTIC RADIOLOGY

POSTDOCTORAL FELLOWSHIP. Exciting opportunity for Ph.D. with background in molecular biology, protein biochemistry, or immunology and an interest in vascular biology or cell motility to join a vascular and tumor cell biology laboratory at Yale Medical School. Currently, we are studying the mechanism of action of a unique new cell motility factor. Please send curriculum vitae to: **Dr. Eliot M. Rosen, Department of Therapeutic Radiology, 132 HRT, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510.**

Predocutorial Fellowship Awards For Minority Students

**Sponsored by the National Institute of General Medical Sciences
National Institutes of Health**

The National Institute of General Medical Sciences announces a new predoctoral fellowship program for minority students. This program provides up to 5 years of support for research training leading to a Ph.D. or combined M.D.-Ph.D. degree in the biomedical sciences.

Eligible for this award are highly qualified students who are members of minority groups that are underrepresented in the biomedical sciences. These groups include African Americans, Hispanics, Native Americans, and Pacific Islanders. Applicants must be enrolled in a Ph.D. or M.D.-Ph.D. program or have been accepted by and have agreed to enroll in such a program in the following academic year. Students must also be U.S. citizens, non-citizen nationals, or have permanent resident status.

The award includes tuition, fees, \$2,000 to cover travel to scientific meetings and laboratory and other expenses, and a stipend of \$8,800 per year. Award recipients must fulfill a payback requirement by engaging in a defined period of health-related biomedical or behavioral research and/or teaching.

Receipt date for applications: May 10, 1991

(subsequent receipt dates will be announced at a later time)

For further information or application forms, contact:

Dr. John Norvell, (301) 496-7260

Dr. Classie Hoyle, (301) 496-7941



POSTDOCTORAL RESEARCH SCIENTIST CNS Diseases Research

The Upjohn Company, a recognized leader in pharmaceutical research and development, is currently offering a very attractive Postdoctoral Research Scientist (PRS) position in our CNS Diseases Research Group. The PRS Program reflects Upjohn's commitment to encourage creative science, to stimulate the development of new medicines, and to provide an excellent training environment for our PRS scientists.

A new or recent doctorate in science, medicine, or veterinary medicine is sought plus a strong record of academic and scientific excellence in research. The specific program concerns the effects of centrally acting drugs on the flux of calcium using in-vitro models of cerebral ischemia and epilepsy. The incumbent must have experience with calcium-sensitive dyes and computer-assisted measurements of intracellular calcium concentrations. Publication and presentation of results are integral parts of the position. PRS appointments are for one year, renewable for a second year, with an excellent salary and benefits package.

Upjohn Laboratories offers a stimulating, multi-disciplinary research environment at our modern facilities located in Kalamazoo, a southwestern Michigan community located midway between Chicago and Detroit. Qualified candidates are invited to forward their Curriculum Vitae, cover letters and publication listing to: **THE UPJOHN COMPANY, CORP. RECRUITING/POSITION CODE 5737-HA, PRS PROGRAM, 7000 PORTAGE ROAD, KALAMAZOO, MI 49001-0199.** Please refer to position code 5737-HA in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...

Upjohn

Postdoctoral Researchers

At Genentech, Inc., our scientists publish twice as many scientific papers as any other biotechnology company. This clearly demonstrates our commitment to first-class research and accounts for our enormous success. Currently, we are seeking Postdoctoral Researchers to continue this tradition in the following areas:

Immune Cytokine & Inflammation

You will study a new class of immunoregulatory and inflammatory cytokines and their receptors. Requires experience in immunology and molecular biology. Experience with expression cloning, in-situ hybridization or receptor/ligand interactions is helpful.

Process Sciences

We are seeking a Researcher specialized in protein refolding. Requires familiarity with protein chemistry, protein synthesis and structure/functioning relationship.

Research Assistant

Protein Chemistry

This is an excellent opportunity for a highly motivated individual with a BS in Chemistry/Biochemistry and experience in one or more of the following: HPLC, protein isolation, amino acid analysis or protein sequencing. Some computer experience is highly desirable.

We actively encourage publication as well as internal and external research collaborations and scientific conference attendance.

Our extensive benefits package includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and an employee stock purchase plan. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. YDS, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

Genentech, Inc.

Hybritech Incorporated, a division of Fortune 100 Eli Lilly and Company, is a recognized leader in the application of monoclonal antibody technology to human health care needs. We research, develop and manufacture diagnostic assays and are also involved with the research and development of in-vivo imaging products. We have the following needs:

Research Scientist

This scientist will investigate physiological factors affecting the pharmacology of monoclonal antibody-based delivery systems for anti-tumor therapy. This includes establishing parameters for the improvement of two-step delivery in animal models and developing a model system for extrapolation to human kinetics. A Ph.D. with knowledge/experience of tumor physiology, antibody localization in animal models, and mathematical modeling is desirable.

Postdoctoral Scientist

Multiple drug resistance: Research will focus on the study of the mechanisms of MDR utilizing monoclonal antibodies to P-glycoprotein. Also, involvement in the development of imaginative approaches to diagnosis/treatment of drug-resistant neoplasia utilizing monoclonal antibodies. A Ph.D. with knowledge of drug resistance and neoplasia is desirable.

Hybritech offers a stimulating work environment and competitive salaries and benefits. Interested individuals should send their resume to HYBRITECH INCORPORATED, Dept. SM/SM-3/15/91-RS/PS, P.O. Box 269006, San Diego, CA 92196-9006. Equal Opportunity Employer.



Hybritech
INCORPORATED

Join Wyeth-Ayerst Laboratories, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our research facility in Princeton, NJ.

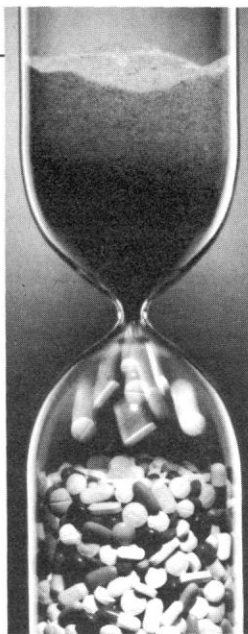
PRINCIPAL SCIENTIST Immunology

If you have energy, drive and commitment, you may be exactly who we're looking for to join a team of 17 scientists in the challenging field of autoimmunity research. Specifically, you will be participating in the research and drug discovery activities in the area of immunosuppression and autoimmunity. Ideally, you will possess the scientific acumen and experience to capitalize and enhance therapeutic opportunities as well as to develop the next generation of immunosuppressive agents to rapamycin. Your background must include a doctoral level degree with a minimum of 5 years post doctoral immunological experience.

Wyeth-Ayerst offers an excellent compensation and benefits package plus opportunities for career advancement. Please forward your resume with salary requirements to: **WYETH-AYERST RESEARCH, Personnel Manager, Position #321, CN 8000, Princeton, NJ 08543-8000.** An Equal Opportunity Employer, M/F/H/V.



**WYETH
AYERST**



A TIME FOR ACHIEVEMENT

The opening of Glaxo Inc.'s \$350 million Girolami Research Center in Research Triangle Park, NC represents a monumental commitment in the pharmaceutical industry to the discovery of drugs for unmet patient needs. Scientists engaged in Glaxo's expanding research and development programs at the Center have a premier facility in which to work. The following opportunity is now available:

DEPARTMENT HEAD- IMMUNOLOGY *Division of Biology*

We seek an Immunologist to head a new research department dedicated to the discovery of novel drugs to treat the serious diseases of mankind. As Cellular Immunology is excellently represented in the established core of this department, it is essential that its new head has a molecular background in immunology or biochemistry, as well as a proven record for scientific innovation and team leadership in research with a minimum of 5 years relevant postdoctoral experience. The company is committed to providing a full range of intellectual and resource support for this exciting career launch opportunity.

Our Research Triangle Park, NC location (near Raleigh, Durham and Chapel Hill) is unequalled for people who seek a well-rounded lifestyle. This world-famous scientific, industrial, and academic community affords access to respected universities, beautiful residential areas, major retail centers, excellent health care and abundant cultural and recreational facilities. Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction and development.

Send your resume, including salary history, to: Human Resources Department, Job #9129B102-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.

Join Wyeth-Ayerst Laboratories, one of the world's largest pharmaceutical research and development groups. Now is your opportunity to become an integral member of our fast-paced, innovative team at our research facility in Princeton, NJ.

POSTDOCTORAL POSITION

This position will study the regulation and pharmacological modulation of potassium channels in airway smooth muscle using electrophysiological, ion flux, and fluorescent calcium indicator techniques. The project will be carried out in collaboration with investigators in the Department of Animal Biology at the University of Pennsylvania. The ideal candidate will have a recent Ph.D. in Physiology or Pharmacology. Experience with voltage-clamp or ion flux techniques is desirable.

We offer an excellent compensation and benefits package. Forward resume and salary requirements to: **Wyeth-Ayerst Research, Personnel Manager, Position #324, CN 8000, Princeton, NJ 08643-8000.** An Equal Opportunity Employer, M/F/H/V. Principals only.



MOLECULAR EVOLUTIONARY BIOLOGIST

PRINCETON UNIVERSITY

Department of
Ecology and Evolutionary Biology

The Department of Ecology and Evolutionary Biology at Princeton University plans to appoint a molecular evolutionary biologist. Rank is open. The appointment can begin any time between July 1991 and Sept. 1992. The closing date for applications is April 15, 1991. Applicants should send a curriculum vitae and arrange for three letters of reference to be sent to:

Dr. Henry S. Horn, Search Committee
Dept. of Ecology and Evolutionary Biology
Princeton University
Princeton, NJ, 08544-1003.

**An Equal Opportunity/Affirmative
Action Employer**

POSITIONS OPEN

POSTDOCTORAL POSITIONS. Available for investigating the cellular and molecular biology of dopamine receptors. Cell biology projects include studying mechanisms of receptor-effector coupling, G protein interactions, and receptor regulation in clonal cell lines. Molecular biology projects involve cloning novel receptor subtype cDNAs/genes, analysis and characterization of gene structure, and regulation of gene expression. Please send curriculum vitae and at least two letters of recommendation to: **Dr. David R. Sibley, National Institutes of Health, Building 10, Room 5C-108, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity Employer.**

GLOBAL CHANGE POSTDOCTORAL FELLOWSHIPS

Global Change Distinguished Postdoctoral Fellowships provide opportunities related to the U.S. Global Change Research Program. This program encompasses the full range of earth system changes including physical, chemical, biological, geological, and social. Fellowships are tenable at approved federal and university laboratories including those of the Department of Energy, NASA, NCAR, USDA, and other agencies. Stipends are \$35,000. A doctoral degree received after 1 May 1988 is required as is U.S. citizenship or PRA status. Deadline is 1 May 1991. Contact: **Global Change Distinguished Postdoctoral Fellowships, Science/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-4805.**

POSTDOCTORAL FELLOW, MOLECULAR GENETICS. Laboratory examines the pattern of spontaneous germline and somatic mutation in humans and other organisms; substantial effort is devoted to developing better PCR-based methods. Sample references: "Ectopic gene expression/rapid cross-species sequencing of factor IX," *Science* 244, 331-334 (1989); "Pattern of mutations in hemophilia B," *Am. J. Hum. Genet.* 47, 202-217 (1990); "Are most mutations endogenous," *Nature* 346, 22-23 (1990). Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Steve S. Sommer, M.D., Ph.D., Associate Professor, Department of Biochemistry and Molecular Biology, Mayo Clinic and School of Medicine, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.**

ASSISTANT SCIENTIST OPHTHALMIC RESEARCH

A vision scientist is sought to collaborate with clinical and research faculty in the Department of Ophthalmology at the University of Florida on research projects involving surgical trauma, compatibility of biomaterials, and drug delivery systems. Previous experience in ophthalmic research and surgery and experience with electron microscopy is desirable. Candidates must have a Ph.D. and/or M.D. degree and appropriate postdoctoral experience. Recruiting deadline is 31 March 1991, to start 1 May 1991. Submit curriculum vitae, list of publications, and names of three referees to: **George A. Stern, M.D., Professor, Department of Ophthalmology, Box J-284 JHMH, University of Florida, Gainesville, FL 32610-0284. The University of Florida is an Equal Opportunity/Affirmative Action Employer.**

TOXICOLOGIST

The Division of Biochemical Toxicology of FDA's National Center for Toxicological Research (NCTR) has an opening for a **STAFF SCIENTIST**. Ongoing research in the division is concentrated on the role of DNA adducts in mutagenesis and carcinogenesis, the importance of genetic heterogeneity in carcinogen activation and deactivation, drug-induced hypersensitivities, and the development of new NMR and mass spectral methods to detect toxic responses. NCTR is seeking an individual with research interests that complement these areas; however, we will consider applicants with research interests in other areas related to biochemical mechanisms of toxicity. The opening is a civil service position at the GS-12 (\$37,294) to GS-14 (\$52,406) level and is dependent upon peer review. Please send a résumé including an outline of proposed research to: **Frederick A. Beland, Director, Division of Biochemical Toxicology, NCTR, Jefferson, AR 72079. DHHS/PHS/FDA/NCTR is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are especially encouraged to apply.**

POSITIONS OPEN



TECHNICAL SALES REPRESENTATIVE

Stratagene, an innovative supplier of molecular biology research products, is in search of qualified and experienced technical sales representatives. Positions are available immediately in the greater Washington, D.C., New York, and the New Jersey/Pennsylvania areas. Candidates should have strong practical experience in molecular biology or related field. Prior sales experience is beneficial. Sales representatives will attend an extensive 1-month training program at our beautiful coastal location in La Jolla, California. Stratagene offers a competitive salary and incentive program.

STAFF SCIENTIST (CELL BIOLOGIST) #052

The growth of mammalian cells in culture often depends on poorly defined serum factors. The successful candidate will be asked to lead a research and development program to engineer cell lines to be less dependent on growth factors. Experience with genes governing stages of the cell cycle is desired. A doctoral degree and at least 4 years of postdoctoral experience are required.

Stratagene offers excellent company benefits including a 401(K) Plan and a competitive salary. All qualified candidates should forward résumé of qualifications to:

**Stratagene
Attention: Human Resources
11099 North Torrey Pines Road
La Jolla, CA 92037**

Stratagene is an Equal Opportunity/Affirmative Action Employer.

FOREST PHYSIOLOGICAL ECOLOGY, FOREST ECOSYSTEMS. POSTDOCTORAL RESEARCH ASSOCIATE position with Oregon State University (OSU) College of Forestry, and the USFS, Pacific Northwest Research Station Silviculture Laboratory, Bend, Oregon. To participate in interdisciplinary research on ponderosa pine forests of central Oregon, based at Bend Silviculture Laboratory. Conduct research on carbon and nutrient allocation in pine forest ecosystems. Strong background required in plant physiological ecology and biochemistry, emphasizing carbon and nutrient allocation to photosynthesis, plant growth, and plant biochemical defenses. Must be able to travel and conduct research independently in the field. Demonstrated ability to publish in refereed journals. Full-time, fixed-term, 12-month position. Salary: \$24,000 to \$30,000 depending on qualifications. For more information contact: **Kermit Cromack, Jr., telephone: 503-737-2244 or Joan Landsberg, telephone: 503-388-7426.** Send application letter, complete résumé, academic transcripts, and three letters of reference by 1 April 1991 to: **Dr. Logan Norris, Department of Forest Science, Oregon State University, Corvallis, OR 97331-5705. OSU is an Equal Employment Opportunity/Affirmative Action Employer and is responsive to the needs of dual-career couples.**

ASSOCIATE RESEARCH SCIENTIST. To supervise and execute behavioral pharmacological studies in laboratory animals, with a focus on drug addiction research. The goal is to interface behavioral measures with ongoing molecular, biochemical, and electrophysiological investigations. Several years of experience in behavioral methodologies required; prior experience in drug self-administration preferred. Salary commensurate with experience. Send curriculum vitae and three references to: **Dr. Eric J. Nestler, Department of Psychiatry, Yale University School of Medicine, 34 Park Street, New Haven, CT 06508. Equal Opportunity Employer.**

ASSOCIATE SPECIALIST. Position available March 1991. Requires M.S. or Ph.D. degree in biomedical engineering or related discipline, 3 years of experience in the design and manufacture of technology related to implantable devices, or equivalent education/experience. Send curriculum vitae and names, addresses, and telephone numbers of three references to: **Michael M. Merzenich, Ph.D., Research Director, Department of Otolaryngology, Box 0732, University of California, San Francisco, CA 94143-0732. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSITIONS OPEN

RESEARCH SCIENTIST (Ph.D.)

Applicants are invited for a research scientist position in a young and fast-growing neuroscience biotechnology company. Candidates must have at least 2 years of postdoctoral experience and demonstrate a high potential for success in establishing a research program related to animal and cell culture models of neurodegenerative diseases. Direct training and experience in mouse molecular genetics is preferred. Please submit curriculum vitae, letter of interest, and the names and addresses of three references to: **Dr. Richard W. Scott, Cephalon, Inc., 145 Brandywine Parkway, West Chester, PA 19380.**

UNIVERSITY OF FLORIDA BIOLOGICAL SCIENTIST

Involves studies with Honey Bee RFLPs and laboratory supervision. Requires experience in DNA isolation, Southern blot, and hybridization. Prefer experience also with PCR and sequencing. Monday to Friday, 8 a.m. to 5 p.m. Minimum qualifications: B.S. and 1 year of professional experience. Send résumés to: **Debbie Brennan, CEC, Stadium W, University of Florida, Gainesville, FL 32611. Due by 5 April 1991. Affirmative Action/Equal Opportunity Employer.**

Immediate position available for **CYTOGENETIC TECHNOLOGIST.** The Genetics Institute of Florida, a comprehensive genetic counseling and prenatal diagnostic facility in the West Palm Beach area, has an immediate opening for the position of Cytogenetic Technologist. Both entry-level and experienced technologists will be considered. The cytogenetics laboratory is fully equipped with state-of-the-art technology and offers an excellent opportunity for a career-oriented cytogenetics technologist. Genetics Institute of Florida offers a competitive salary, excellent benefits, and a warm friendly environment. Interested individuals should contact: **Dr. Anwar Iqbal, Genetics Institute of Florida, 1401 Forum Way, #210, West Palm Beach, FL 33401. Telephone: 407-697-4200.**

MOLECULAR BIOLOGIST

Full-time position for a skilled molecular biologist to carry out diagnostic work in molecular genetics and pathology in a progressive university affiliated medical center.

Qualifications/experience:

- Southern and Northern blotting
- Polymerase chain reaction
- Use of in situ probes
- Oligonucleotide synthesis
- Ph.D. in molecular biology or equivalent experience required

The Berkshires offers an extraordinary array of cultural and recreational activities.

Contact: **Barbara M. Patzwahl, Recruitment Specialist, 725 North Street, Pittsfield, MA 01201. Telephone: 413-447-2784; outside Massachusetts, call: 1-800-648-1036.**

STAFF SCIENTIST, for manufacturer in Cincinnati area. Design and synthesize new chemical entities for the treatment of diseases. Design biologically active compounds, synthesize small amounts of these materials for biological screening, and prepare large amounts for broad-scale testing. Use modern methodology for functional-group and enantiospecific synthesis, synthesize natural products (including carbohydrates) and their derivatives. Employ an understanding of the chemical/physical nature of compounds and how this relates to biological performance in the design of drug actives. Use modern instrumental methods, especially 500-MHz nuclear magnetic resonance, liquid and gas chromatography, and mass spectrometry to purify and identify new chemical entities. Require Ph.D. in organic chemistry plus 1 year of experience in the job described or 1 year of experience in pre- or postdoctoral organic-synthesis and natural-product research involving the synthesis of natural products, the development of new methodology for the enantiospecific synthesis of molecules, the synthesis of carbohydrates and their derivatives, the scale-up production of chemicals using pilot-plant equipment and running/interpreting nuclear magnetic resonance spectra on a 500-MHz instrument. Forty hours per week, 8:00 to 4:30; salary: \$49,000 per year. *Must have proof of legal authority to work permanently in the United States.* Send résumé in duplicate (no calls) to: **C. Bussard, JO #1099761, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

NATURAL RESOURCES RESEARCH

ASSISTANT DIRECTOR/GM-15

Intermountain Research Station
USDA/Forest Service
Ogden, Utah

JOB INFORMATION

Member of the Forest Service Intermountain Research Station's leadership team, consisting of a Station Director, three Assistant Station Directors for Research Programs, and an Assistant Station Director for Administration. The Station's \$15 million research program is organized into 21 teams, each lead by a senior scientist, located in Idaho, Montana, Utah and Nevada. Scientific specialties in the teams include: physics, chemistry, mathematics, statistics, economics, botany, ecology, wildlife biology, hydrology, soils, silvics, genetics, operations research, fishery biology, entomology, plant physiology, plant pathology, geology, engineering, and others. Program includes fundamental, applied, and developmental studies designed to solve problems involved in protection and management of forests, rangelands, watersheds, and wildlife habitats of the interior west.

This position is one of the three Assistant Station Directors for Research. It provides leadership and direct supervision to seven of the twenty one research teams. It is located at Ogden, Utah. Frequent travel to field locations, Washington, D.C., and various meetings is required.

QUALIFICATIONS

Candidates should have a PhD degree in a field of physical, biological, social, or engineering science. Also must have had personal experience in planning and conduct of independent research.

SALARY

The position is rated at grade GM-15 in the federal service (Civil Service) with a salary range of \$61,643 to \$80,138.

CONTACT

Interested persons should contact: **Dr. Laurence E. Lassen**, Director, Intermountain Research Station, 324 25th St., Ogden, UT 84401. Phone 801-625-5412.

The Intermountain Research Station is an Equal Employment Opportunity employer.

PharmaGenics, Inc.

RESEARCH SCIENTISTS

PharmaGenics, Inc., a new company located in Northern New Jersey, is engaged in exciting new programs for the development of oligonucleotide therapeutics, in collaboration with several outstanding academic investigators. We seek highly motivated individuals to carry out research in the following departments:

Nucleic Acid Chemistry

Senior Scientists: A Ph.D. in organic chemistry is required, preferably in the areas of oligonucleotides or nucleic acids. Strong synthetic skills are essential. Postdoctoral research experience is desirable, and industrial or supervisory experience, together with good communication skills, would be beneficial.

Assistant/Associate Investigators: A B.S. or M.S. degree in chemistry is required, together with experience in synthetic organic chemistry. Familiarity with a wide range of standard laboratory techniques is essential, and experience with oligonucleotides would be highly desirable.

Molecular and Cellular Biology

Senior Scientists: Candidates should have a Ph.D. in molecular biology with expertise in one or more of the following technologies: gene cloning, polymerase chain reaction, DNA sequencing, in vitro transcription and translation, mammalian cell culture. Prior research focus in oncology or virology is desirable.

Assistant/Associate Investigators: Candidates should have a B.S. or M.S. degree, preferably with prior research experience in one or more of the techniques described above.

PharmaGenics, Inc. is located in a 13,500 sq ft state of the art facility located in a pleasant, suburban environment in Bergen County, New Jersey, approximately thirty minutes from New York City. We offer an attractive salary and benefits package, along with the growth opportunities and challenges of a leading-edge technology company. Please send your resume and the names of three references to: Ms. Joyce Mecionis, PharmaGenics, Inc., 4 Pearl Court, Allendale, NJ 07401.

"Do it differently, do it better"

THE DOE HUMAN GENOME PROGRAM ANNOUNCEMENT OF SPECIAL RESEARCH GRANTS

In support of the Human Genome Program, the U.S. Department of Energy (DOE) announces* its 1991 Special Research Grants Program Notices 91-7 and 91-8; Human Genome Program. Several research goals are encompassed in the **February 20, 1991, Federal Register** Notice supporting research and conferences for:

(1) Development of innovative technologies and resources necessary for the physical mapping of human chromosomes, including improvements in cDNA technologies and YAC technologies;

(a) The objective of the cDNA technology development is the identification of human DNA sequences, suitable for sequence tagged sites (STS) and having the added value of representing expressed loci (see 16 Nov 1990 Science, pg 913). Appropriate subtopics include improved production of cDNA libraries, normalization of cDNA libraries, rapid assignment of cDNAs to chromosomes and sub-chromosomal regions so that optimally spaced cDNAs for STS definition can be chosen, limited or complete cDNA sequencing supporting identification of candidate STS sites, and validation of the utility of candidate sites. All participants in cDNA projects must contribute to a coordinated resource of data and materials which will serve to minimize redundant efforts by identifying already characterized cDNAs across distinct libraries.

(b) The objective of the YAC technology development is the creation of improved libraries of human YAC clones with large stable inserts, the elaboration of better methods for the assignment of YACs to chromosomes and chromosomal regions and related inter-laboratory resource and information transfer.

(2) Development of advanced DNA sequencing technology, particularly innovative new approaches with potential for rapid, more economical sequencing;

(3) Development of data management systems for use in DNA mapping, and sequencing, including data structures, retrieval schemes, user interfaces, and advanced database theory;

(4) Addressing ethical, legal and societal issues that may arise from applications of knowledge and materials resulting from the Human Genome Program. For a more detailed description of issues and specific research topics to be addressed relative to this goal, please also see the announcement in the NIH Guide to Grants and Contracts, Vol. 19, No. 4, January 26, 1990, entitled "Ethical, Legal, and Social Implications of the Human Genome Initiative."

APPLICATION AND PREAPPLICATION INFORMATION: There are two application and review cycles. [Formal applications that relate specifically to cDNA technology will be evaluated during May 1991.] For the second review cycle which will cover all topics, potential applicants are encouraged to first submit a brief preapplication in accordance with 10 CFR 600.10(d) (2) which consists of two to three pages of narrative describing the research project objectives and method of accomplishment. These will be reviewed relative to the scope and the research objectives of the DOE Human Genome Program. Preapplications should be received by April 19, 1991, and sent to the following address: Dr. Benjamin J. Barnhart, Office of Health and Environmental Research, ER-72 (GTN), Washington, D.C. 20585, (301) 353-5037. Telephone and telefax numbers are required to be part of the preapplication. A response to the preapplications discussing the potential program relevance of a formal application will be communicated within 45 days. Formal applications **subsequently** submitted must be received by August 9, 1991 to be accepted for a October 1991 review.

Application kits and copies of 10 CFR Part 605 are available from the U.S. Department of Energy, Office of Energy Research, Division of Acquisition and Assistance Management, ER-64, Room G-236, Washington, D.C. 20585. Formal applications submitted for the May 1991 review on cDNA technologies should reference Program Notice 91-7. Formal applications on all topics submitted for the September 1991 review should reference Program Notice 91-8. Applications should be addressed to: U.S. Department of Energy, Office of Energy Research, Division of Acquisition and Assistance Management, ER-64, Room G-236, Washington, D.C. 20585, ATTN: Program Notice 91-7 or 91-8. [The express mail address is U.S. Department of Energy, Office of Energy Research, Division of Acquisition and Assistance Management, ER-64, 19901 Germantown Road, Germantown, MD 27804.]

*The announcement first appeared in the February 22, 1991 issue of **Science**.

POSITIONS OPEN

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

ENVIRONMENTAL CHEMIST. Atmospheric transport of organic pollutants. Career position is available immediately in the environmental chemistry laboratory to conduct investigations on the environmental movement of pesticide chemicals. Research focuses on the processes controlling the waterborne and airborne environmental dispersion of agricultural chemicals, with special emphasis on quantitative measurements of volatilization, atmospheric transport, and redeposition of pesticides. Expertise in physical, organic, and analytical chemistry desired. Salary: commensurate with experience (\$37,294 or \$44,348). For information about the research program, contact/submit applications to: **Dr. Philip Kearney, USDA-ARS, Natural Resources Institute, Room 233, Building 001, Beltsville Agricultural Research Center, 10300 Baltimore Avenue, Beltsville, MD 20705-2350. Telephone: 301-344-3030.** For application procedures and forms, contact: **Rose Cunningham, telephone: 301-344-2948.** Applications in response to this ad should be marked. **2 E 001.** Women and minority candidates are encouraged to apply. Deadline on applications is 1 May 1991. *ARS is an Equal Employment Opportunity Employer.*

RESEARCH ASSOCIATE I position. Research and publication to study molecular recognition-based sensors and electrochemistry in unconventional media using electrode modification, STM, UHV spectroscopy, plasma chemistry, and Langmuir Blodgett techniques. Ph.D. in physical and analytical chemistry required. Forty-hour week; \$22,000 per year. Send résumé to: **New Mexico Department of Labor, Cost Center 1001, 501 Mountain Road, N.E., Albuquerque, NM 87102.** Job order number: 334007.

RESEARCH SCIENTIST IN MOLECULAR BIOLOGY PARASITOLOGY RESEARCH LABORATORY COLORADO STATE UNIVERSITY (CSU)

A Ph.D. scientist with a minimum of 4 to 5 years of post-Ph.D. experience is sought to participate in research into molecular cloning and expression of parasitic nematode antigens.

Molecular biology expertise is essential. Experience in construction of cDNA libraries, eukaryotic gene expression, and supervision of technical staff in related areas will be required. The incumbent will also be expected to interact extensively with parasitologists and immunologists involved in the same overall project.

Salary commensurate with credentials. Deadline: 1 May 1991 (search may be extended if suitable candidate is not found). Please send application materials to: **Dr. Robert B. Grieve, Professor, Department of Pathology, Colorado State University, Fort Collins, CO 80523. Telephone: 303-491-4964.**

CSU is an Equal Opportunity/Affirmative Action Employer. E.O. Office: 314 Student Services Building.

TRANSPLANTATION IMMUNOBIOLOGY

The Transplant and Immunogenetics Laboratory at Oregon Health Sciences University is recruiting a recent graduate of a Ph.D. program in immunology, who has had at least one postdoctoral position, to conduct research in human immunobiology as it relates to organ transplantation. A recruitment package of salary, space, and start-up funds is available. The individual should be self-supporting within 3 years. Contact: **D. J. Norman, M.D., Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**

ASSISTANT RESEARCH IMMUNOLOGIST. Program in Transplant Immunology is offering a position for a molecular/cellular immunologist with expertise in human immunogenetics and transplantation immunology. Candidate must have a Ph.D. degree with at least 3 years of postdoctoral employment and/or training in human immunogenetics and HLA system involving: serology or cellular immunology, T cell cloning, molecular genetics as related to histocompatibility, immunochimistry. Responsibilities will include: Studies on antisense gene regulation, human tolerance induction, and immune monitoring of transplant recipients. Salary range: \$41,600 to \$52,400 depending on experience. Send curriculum vitae and reference to: **Marvin R. Garovoy, M.D., University of California, San Francisco, 520 Health Sciences East, Third and Parnassus Avenues, San Francisco, CA 94143-0508.**

POSITIONS OPEN

TOXICOLOGISTS

The California Department of Food and Agriculture seeks staff toxicologists and associate toxicologists in its pesticide regulatory program. Incumbents will evaluate toxicology studies and/or conduct risk assessments. Positions exist for individuals with master's and/or doctorate degrees in toxicology pharmacology or a closely related field with suitable experience in animal toxicology. Salary ranges begin at \$4398 per month for staff toxicologist (minimum: Ph.D. and 3 years of experience) and \$3320 per month for associate toxicologist (minimum: M.S. and 4 years of experience or Ph.D.). Comprehensive benefits package. Continuous testing, oral exam required. Submit résumés to:

**Department of Food and Agriculture
Examinations Unit
1220 N Street, Room 154
Sacramento, CA 95814**

RESEARCH ASSOCIATE. Medical facility in northeastern Ohio. Conducts research to elucidate the mechanism of the anticancer, antiviral, and anticellular actions of interferons. Research involves the preparation of antibody, antiviral studies in vivo and in vitro, and assays for reverse transcriptase and DNA polymerases. Uses techniques of transient transfection, isolation of permanent cell transfectants by positive co-selection of an antibiotic resistance gene, assays for chloramphenicol acetyl transferase and neomycin phosphotransferase II, immunoprecipitation, Northern and Western blotting, nuclease protection assay, nuclear run-off transcription, viral plaque assay, and focus formation assay. Must have knowledge of the growth and purification of viruses, the purification of viral antigens, and immune targeting of antiviral agents as evidenced by published materials or work experience. Requires Ph.D. in microbiology or virology and 1 year of experience in job offered or as microbiology research fellow in antiviral research. Forty-hour week, 8 a.m. to 5 p.m.; \$23,775 per year. *Must have proof of legal authority to work permanently in the United States.* Send résumé in duplicate (no calls) to: **J. Davies, JO #1255668, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.**

RESEARCH ASSISTANT. To perform studies on the active intracellular metabolites (6-thioguanine nucleotides and methotrexate polyglutamate) for treating childhood leukemia: (i) to develop assay of 6-thioinosinic acid and 6-thioguanine nucleotides, active metabolites of 6-mercaptopurine, in human red blood cells by high-performance liquid chromatography; (ii) to develop assay of methotrexate and its metabolites-methotrexate polyglutamate in human red blood cells by separation from high-performance liquid chromatography, collecting functions and assay by Riodio Enzyme Assay; (iii) pharmacokinetics and cytotoxicity study on 6-thioguanine nucleotides and methotrexate polyglutamate for treating childhood leukemia. Applicant must have a Pharm.D. degree or equivalent with 2 years experience. Annual salary: \$25,025. Mail résumé to: **Mike Daniels, Job Serv Prog & Tech Support*, Tennessee Department of Employment Security, Nashville, TN 37245-1200, Job Ref. #1235853.** *Job Service Program and Technical Support.

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ANNOUNCEMENTS

Parry Sound High School is seeking high school science departments that are interested in exchanging research data and sharing in joint studies or projects on the Great Lakes ecosystem on a regular basis. Parry Sound is located in the heart of the 30,000 islands on the east coast of Georgian Bay. Contact: **R. Poole, Head of Science, Telephone: 705-746-5888, FAX: 705-746-7367, or write to: R. Poole, Parry Sound High School, 111 Isabella Street, Parry Sound, Ontario, P2A 1N2 Canada.**

ALFRED P. SLOAN FOUNDATION SABBATICAL AWARDS IN MOLECULAR STUDIES OF EVOLUTION

Molecular or evolutionary biologists at U.S. and Canadian institutions are invited to apply for sabbatical awards for academic year 1992 to 1993, for development of interdisciplinary knowledge needed for molecular studies of evolution. Awards include matching funds for sabbatical salary and expendables allowance. Deadline: 28 June 1991. Contact: **Dr. Michael S. Teitelbaum, 630 Fifth Avenue, Suite 2550, New York, NY 10111. Telephone: 212-649-1649.**

CHRISTOPHER COLUMBUS DISCOVERY AWARDS IN BIOMEDICAL RESEARCH CALL FOR NOMINATIONS

The Christopher Columbus Medical Sciences Committee of the National Institutes of Health (CCMSC/NIH) and the CCMSC/Genoa, under the auspices of the Quincentenary Jubilee Commission, will award eight to ten prizes for scientific discoveries that have contributed significantly to the alleviation of disease and disability. The prizes will be awarded only in 1992 in conjunction with two scientific meetings that are being held as part of the international activities celebrating the 500th anniversary of the Old World discovery of the New World.

The Awards Subcommittee of the CCMSC/NIH hereby invites and encourages nominations of outstanding scientists, of any nationality, from all areas of science that have an impact on health, for this award. The closing date for nominations is 30 June 1991. For information regarding the nomination process and selection criteria, please contact: **Dr. James C. Hill, Deputy Director of the National Institute of Allergy and Infectious Diseases, and Chairman, Awards Subcommittee, 655 15th Street, N.W., Suite 300, Washington, DC 20005. Telephone: 202-639-4524.**

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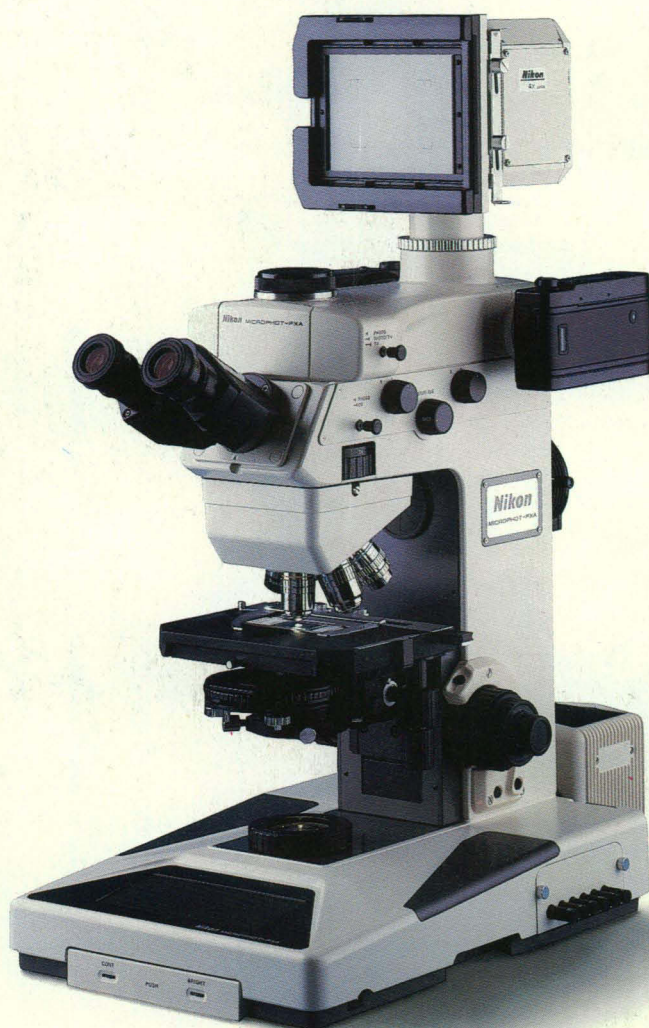
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