Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Rates per line will be at least 2 weeks after date of issue in which ad appears. Also, please note that the advertiser does not discriminate among applicants on the basis of age, sex, religion, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertising to it.

LINE CLASSIFIED ADVERTISING DEADLINES:
Thursday, 10 a.m., 2 weeks prior to issue date (mailed or via phone). Fax advertising, please contact Scherago Associates.

POSITIONS WANTED:
40¢ per word, plus $4 for use of box number, per week, $10 minimum per week. Prepayment required. This rate is available only to individuals seeking jobs.

To ESTIMATE ad cost:
Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Ad titles located within the text are printed in boldface caps and are only 32 characters per line. In estimating the cost, multiply total lines by $38.00. Approximate cost of ad. (This is an approximate cost only. Allow for variations between estimated lines and actual typeset lines and the resulting final cost. Purchase order acceptable. A $5.00 billing address required for all other advertising.

CANCELLATION POLICY:
NOTE: Ads cancelled after Thursday, 2 weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m. Tuesday, ONE week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/6 page in size (36 lines) to:
SCIENCE Classified Advertising
1333 H Street, NW, Room 440
Washington, DC 20005
Telephone: 202-326-8558

Send copy for Fractional Display ads, 1/6 page and larger, and all Marketplace ads to:
Scherago Associates, Inc.
1161 Broadway
New York, NY 10036
Telephone: 212-730-1060

Blind ad replies should be addressed as follows:
Box (give number)
SCIENCE
1333 H Street, NW
Washington, DC 20005

$30.00

MAPPING OUR GENES

Genome Projects — How Big, How Fast?
Congress of the United States, Office of Technology Assessment

At the request of Congress, the Office of Technology Assessment (OTA) undertook a study to evaluate the feasibility of a project to map and sequence the entire human genome. This is the full OTA report as presented to Congress and is the complete and current survey of genetic mapping programs in the U.S. and elsewhere. Unique in its breadth, accuracy, and balance, the book contains information gathered systematically by OTA experts from around the world.

$30.00


Physician (Pulmonologist)/Epidemiologist: Seeks position in academic or non-academic research setting. Experience includes longitudinal community studies of determinants of respiratory disease. Box 132, SCIENCE.

POSITIONS WANTED

Cell Biologist, Ph.D. Extensive experience in academic and biotechnology research and development in tumor cell-virus scale and tissue culture, virology, and-immune-mediated tumor cell cytotoxicity. Seeking industrial research position. Box 124, SCIENCE.

Immunologist, Ph.D. Specialist in cellular immunity, hybridomas, monoclonal antibodies, and lymphokines. Experience in biotechnology research and development in cancer immunotherapeutics. Seeking position in industrial or academic laboratory investigating immunological approaches to human disease. Excellent background and references. Box 118, SCIENCE.

Physiologist/Neuroscientist, Ph.D. with proven publication record. Research relating to cerebral blood flow and metabolism, homeostatic mechanisms, and techniques. Seeking a research or research/teaching position in the southeast. Box 131, SCIENCE.


Translation from Japanese publications, patents, and technical reports. P.O.B. 211063, Columbus, OH 43221.

POSITIONS OPEN

ANIMAL DEVELOPMENTAL BIOLOGIST/ELECTRON MICROSCOPIST: Assistant professor, tenure-track position, for fall 1989, contingent upon budgetary approval. The successful candidate will teach one course in his/her area of expertise, serve as director of the departmental electron microscopy facility (one technician, two students), and teach TEM and SEM to seniors and graduate students. Development of an independent research program in some facet of animal developmental biology is expected. Applicants must have significant postdoctoral experience, thorough knowledge of electron microscopy, a commitment to excellence in teaching and research, and enthusiasm for interactions with a diverse biology faculty. Please send curriculum vitae, statement of research goals, and three letters of reference before 6 October 1988 to: Dr. Kathryn Vogel, Biology Department, The University of New Mexico, Albuquerque, NM 87131. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR, BIOCHEMISTRY/MOLECULAR BIOLOGY UNIVERSITY OF ILLINOIS

The Department of Biochemistry at the University of Illinois invites applications for a tenure-track faculty position which will be available starting in August, 1989. Salary is dependent upon qualifications. Candidates must have demonstrated exceptional research ability in dynamic areas of biochemistry or molecular biology, and must be prepared to establish an independent research program and to contribute to graduate and undergraduate teaching programs. A Ph.D. and postdoctoral experience in biochemistry or a related field are required. For full consideration, applicants should submit a curriculum vitae, a brief description of their research interests and three letters of reference by 1 November 1988 to: Professor Richard J. Gunport, Chairman, The Biochemistry Committee, Department of Biochemistry, University of Illinois, 1209 West California Street, Urbana, IL 61801. Telephone: 217-333-2013.

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

ASSISTANT RESEARCH PHYSIOLOGIST Se-pulveda area, $3000 per month. To perform studies on the regulation of muscle tone in REM sleep and catabolism. Required: Ph.D. in physiology, 2 years of exper- tise with fluorescent microscopy and labeling, decre- ration surgery, monitoring of cardiovascular para- meters, intracranial microstimulation, use of polygraph, metabolic testing, stimulus plus brain mapping, single unit recording, knowledge of brainstem motor control mech- anisms. Send this ad and your resume to: Dr. J. M. UCLA Department of Psychiatry, VAMC 1813, Sepulveda, CA 91434.
**ASSISTANT DIRECTOR OF CYTOGENETICS**

Clinical cytogeneticist with experience in chorionic villi sampling and a solid background in molecular biology is sought to direct a CVS program. Applicants should have a Ph.D. in medical genetics or related field and 3 years of human cytogenetics. Responsibilities will include clinical service, initial planning of a molecular diagnostic laboratory and independent research on genetic counseling and in situ hybridization. Successful candidate will be expected to pursue Board certification. Submit curriculum vitae and three references by 15 September 1988 to: Dr. S. W. Cheung, Department of Obstetrics and Gynecology, Washington UniversityMedical School, 4911 Barnes Hospital Plaza, St. Louis, MO 63110. Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR**

Two entry-level, tenure-track positions are open in the Department of Anatomy, Uniformed Services University of the Health Sciences. Candidates must have postdoc- toral training in cellular, molecular, or developmental biology. Teaching responsibilities for one position will include neuromyotax and a portion of either microsco-pic or genetics. Responsibilities for the second position will include microscopic anatomy. Faculty members have access to excellent research facilities, including equipment for laser microscopy, protein purification, computer-enhanced videomicroscopy, an ACAS 470 laser work station and oligonucleotide and peptide synthesizers. A conjunctional microscopy facility is available. New faculty members are provided with adequate laboratory space, a technician, and access to substantial start-up funds. Send curriculum vitae, brief statement of research interests, and the names and addresses of three references before 15 September 1988 to: David C. Beebe, Ph.D., c/o Civilian Personnel, USUHS, 4301 Jones Bridge Road, Bethesda, MD 20814-4799.

**ASSOCIATE PROFESSOR COGNITIVE NEUROBIOLOGY UNIVERSITY OF CALIFORNIA, IRVINE**

Applications are invited for a tenure-track position at the level of assistant professor in cognitive neuroscience. Preference will be given to applicants who have demonstrated expertise in the organization of neural systems underlying cognition, cognitive changes induced by disease and aging, and/or neural modeling or cognitive processes. The Department of Psychology emphasizes interdisciplinary approaches to the study of the nervous system and behavior. Current research themes of the Department are development, reorganization following injury and disease, and learning and memory. Please submit by 1 October 1988, curriculum vitae, description of research interests, and three confidential letters of recommendation to: Dr. James L. McGeagh, Chair, Department of Psychology, University of California, Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employer.

**ASSOCIATE PROFESSOR NEUROPHOTONTOLOGY UNIVERSITY OF CALIFORNIA, IRVINE**

The Department of Marine Sciences, The University of Connecticut, invites applications at the assistant professor position in phytophotonology, antici- pated for 1 September 1989. Preference will be given to candidates who have demonstrated expertise in applying molecular biology to research problems within the themes emphasized by our Department. The Department of Psychology emphasizes inter-disciplinary approaches to the study of the nervous system and behavior. The current major research themes of the Department are development, reorganization following injury and disease, and learning and memory. Please submit by 1 October 1988, curriculum vitae, description of research interests, and the names of three references to: R. B. Whitch- latch, Head, Department of Marine Sciences, The University of Connecticut, Groton, CT 06340. Closing date for applications: 1 November 1988. The University of Connecticut is an Equal Opportunity Employer. (Search #A430).

The Department of Neurosciences, University of California, San Diego, is seeking qualified applicants for a position as ASSISTANT RESEARCH NEUROSCI- ENTIST. The successful candidate will have extensive experience with single-cell physiology and retinal histology, skilled in the application of immunohistochemistry ONL in situ hybridization, and experience with the study of a variety of mammalian and amphibian retina. Experience in intracellular single-cell recording, as well as in single-cell fills in retinae and in vitro cultures, particularly of avian brain, computer application of morphometric techniques for data collection on avian retina. M.D. or Ph.D. required with at least 5 years of experience. Send curriculum vitae, a description of research interests and the names of three references by 9 September 1988, to: Dr. L. B. Dreyer, Department of Neurosciences, University of Cali- fornia, School of Medicine, Duthu, MN 55812. The University of Minnesota is an Equal Opportunity Educator and Employer.

**ASSOCIATE RESEARCH SCIENTIST**

The Department of Pharmacology is seeking an associate research scientist with an M.D. or Ph.D. degree to participate in studies of cardiac electrophysiology and pharmacology and of the mechanisms of action of antiar- rhythmic drugs. The successful candidate will be required to have a background in biochemistry with emphasis on receptor-effector coupling, receptor binding assays in- cluding those for adenosine cyclic and ADP ribosylation and experiences in the design of new compounds. Applicants must have expertise in cell biology and in use of patch clamp methods and internal dialysis to study membrane ionic currents of single isolated mammalian cardiac cells. Interested persons should send curriculum vitae and the names of three references to: Dr. Brian F. Hoffman Department of Pharmacology College of Physicians and Surgeons Columbia University 630 West 165th Street New York, NY 10032 Columbia University is an Equal Opportunity/Affirmative Action Employer.

**ASSOCIATE PROFESSOR PHOTOBIONT BIOTECHNOLOGY UNIVERSITY OF CALIFORNIA, IRVINE**

Applications are invited for a tenure-track position at the level of assistant professor in molecular neurobiology. Preference will be given to individuals who have demonstrated expertise in applying molecular biology to research problems within the themes emphasized by our Department. The Department of Psychology emphasizes inter-disciplinary approaches to the study of the nervous system and behavior. The current major research themes of the Department are development, reorganization following injury and disease, and learning and memory. Please submit by 1 October 1988, curriculum vitae, description of research interests, and the names of three references to: Dr. James L. McGeagh, Chair, Department of Psychology, University of California, Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employer.

**BIOCHEMISTRY/PHARMACOLOGY**

Applications are invited for POSTDOCTORAL POSITIONS in signal transduction, metabolism and brain plasticity and conduct research on brain membrane lipid metabol- ism in response to neurotransmitters, particularly cholines- terase inhibitors. The Department of Pharmacology has a strong commitment to this area of research and a related field is required. Send curriculum vitae, a description of research interests, and the names of five references by 9 September 1988, to: Dr. R. D. Wells, Director, Department of Biology, University of California, School of Medicine, Duthu, MN 55812. The University of Minnesota is an Equal Opportunity Educator and Employer.

**BIOCHEMISTS**

Tenure-track faculty positions are available for candi- dates interested in developing strong and independent research programs with long-term growth potential. All areas will be considered. The Department of Pharmacy has a strong commitment to this area of research. The candidate will be expected to teach, do research and develop a strong graduate program. Salary is commensurate with experience. Curriculum vitae, brief statement of present and future research interests, and three letters of recommendation should be sent to: Dr. R. D. Wells, Department of Biochemistry, The Uni- versity of Alabama at Birmingham, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

**BIOENGINEERING**

Applications are invited for a tenure-track position at the level of assistant professor in molecular neurobiology. Preference will be given to individuals who have demonstrated expertise in applying molecular biology to research problems within the themes emphasized by our Department. The Department of Psychology emphasizes inter-disciplinary approaches to the study of the nervous system and behavior. The current major research themes of the Department are development, reorganization following injury and disease, and learning and memory. Please submit by 1 October 1988, curriculum vitae, description of research interests, and the names of three references to: Dr. James L. McGeagh, Chair, Department of Psychology, University of California, Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employer.

**BIOENGINEERING**

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**BIOTECHNOLOGIST**

Applications are invited for POSTDOCTORAL POSITIONS in signal transduction, metabolism and brain plasticity and conduct research on brain membrane lipid metabol- ism in response to neurotransmitters, particularly cholines- terase inhibitors. The Department of Pharmacology has a strong commitment to this area of research and a related field is required. Send curriculum vitae, a description of research interests, and the names of five references by 9 September 1988, to: Dr. R. D. Wells, Director, Department of Biology, The Uni- versity of Alabama at Birmingham, Birmingham, AL 35294. An Equal Opportunity/Affirmative Action Employer.

**BIOTECHNOLOGY SCIENTIST**

Ciba Corning Diagnostics, a leader in the develop- ment, manufacture and marketing of clinical diagnostics products, has an immediate opening for an individual to work in a new electronics development Position requires a Bachelor's degree and 2 to 5 years of hands-on experience with nuclear acid separation and analysis in a molecular biology setting. Located in the beautiful San Francisco Bay area, we offer an excellent salary and benefits package. Send resume to: Personnel, Ciba Corning Diag- nostics Corporation, 490 San Antonio Road, Palo Alto, CA 94306. Equal Opportunity Employer.

**CELLULAR BIOPHYSICS AND MOLECULAR PHYSIOLOGY**

Applications are invited for a tenure-track position in cellular biophysics and molecular physiology. The position is available in the Department of Physiology at the University of Virginia School of Medicine that is to be expanded in the area of development. The Position requires a Ph.D. in molecular biology and a new area of focus on the biology of the cardiovascular system and cancer. Send curriculum vitae and a list of four references to: Physiology Department Search Committee, School of Medicine, Box 449, Charlottesville, VA 22908. University of Virginia is an Equal Opportunity/Affirmative Action Employer.

**CELLULAR BIOLOGY AND MOLECULAR PHYSIOLOGY**

Applications are invited for tenure-track positions in cellular biology and molecular physiology. The position is available in the Department of Physiology at the University of Virginia School of Medicine that is to be expanded in the area of development. The Position requires a Ph.D. in molecular biology and a new area of focus on the biology of the cardiovascular system and cancer. Send curriculum vitae and a list of four references to: Physiology Department Search Committee, School of Medicine, Box 449, Charlottesville, VA 22908. University of Virginia is an Equal Opportunity/Affirmative Action Employer. 893
BIOHAZARDS SAFETY OFFICER

The Johns Hopkins University is seeking applicants for a Biohazards Safety Officer for its Office of Safety and Environmental Health. The successful candidate will join a multidisciplinary safety department and will be responsible for biosafety program planning, biosafety training, risk assessment, and program development. The full-time position will involve the development and implementation of biocompliance training programs and a biocompliance training database. The position requires the ability to recognize areas of potential biocompliance problems, and to recommend corrective actions. The position requires the ability to develop and implement training programs for biocompliance, and to provide assistance to laboratory directors and other biocompliance activities. The position requires the ability to identify areas of potential biocompliance problems, and to recommend corrective actions. The position requires the ability to develop and implement training programs for biocompliance, and to provide assistance to laboratory directors and other biocompliance activities. The position requires the ability to identify areas of potential biocompliance problems, and to recommend corrective actions. The position requires the ability to develop and implement training programs for biocompliance, and to provide assistance to laboratory directors and other biocompliance activities.

CELL BIOLOGIST

Alkermes, Inc. is a private start-up bio-technology company dedicated to the research and development of innovative medicines to address brain disorders. We are presently seeking Ph.D. and M.S. levels of cell biologists with extensive backgrounds in tissue culture. Experience growing endothelial cells is especially desirable. Alkermes offers a competitive salary and benefits package. Please send curriculum vitae and names of three references to: Carmen A. Paladino, M.D., Director, Alkermes, Inc., 26 Landstowne Drive, Cambridge, MA 02139. Alkermes is an Equal Opportunity Employer.

CELL BIOLOGY/ANATOMY

BIOMEDICAL LASER RESEARCH

Ph.D. in anatomy or cell biology to head a state-of-the-art Laser Research Laboratory performing basic and applied studies of laser interaction with cellular tissues. Harvard Medical School appointment possible. Please send curriculum vitae and names of three references to: Carmen A. Paladino, M.D., Director, Laser Research Laboratory, Massachusetts Eye and Ear Infirmary, 243 Charles Street, Boston, MA 02114. Telephone: 617-573-3438. MEEF is an Equal Opportunity Employer.

CHAIRPERSON, DEPARTMENT OF ANATOMY

The University of Medicine and Dentistry of New Jersey—Robert Wood Johnson Medical School (formerly Rutgers Medical School) invites applications and nominations for the position of Professor and Chairperson of Anatomy. The applicant or nominee should be an outstanding scientist with an international reputation in the areas of cellular, molecular, developmental biology or neurobiology. Current faculty research interests in the department are: Development, Neuroendocrinology, muscle, and cell motility, and reproductive endocrinology. The appointed chairperson will have the opportunity to appoint additional faculty. Rutgers Medical School is a part of a large academic health care system in the New Jersey area. The University of Medicine and Dentistry of New Jersey is an Equal Opportunity Employer.

CHEMICAL ENGINEER

Postdoctoral Associate, Chemical Engineering. Perform experimental research in new synthetic methodologies relating to polycarbonate chemistry of alpha dicarbonyl systems; develop new methodologies based on chelating-stabilized carbonium ions. Requires: Ph.D. or equivalent organic chemistry and/or experience using IR, NMR, MS, CNMR, GC, LC and interpreting derived data; original research in chelating-stabilized carbonium systems, and applications of natural products demonstrated by theses or reputable journal publications. Salary: $17,600 per year, plus $600 per year for health insurance. Application deadline: February 15, 1999. Address correspondence to: Mr. P. H. Dayton, 115 Ontario Street, Albany, NY 12206. Refer to job order #0044465, DOTE CODE 086.018-016.

DIRECTOR, CENTER OF EXCELLENCE—FIELD BIOLOGY, Ph.D., experimental ecology, 12 months. Develop an externally funded research program. Fifty percent administration, 50% research. Successful background in external funding required. Salary commensurate with experience. Send transcripts, curriculum vitae, and three letters of recommendation to: Dr. B. P. Stone, Chairman, Biochemistry Department, Austin Peay State University, Clarksville, TN 37044. Closing date: 15 December 1998 or until filled. Appointment 1 August 1999. APSU is an Equal Opportunity/Affirmative Action Employer. Minorities, women and members of other protected groups are encouraged to apply.

DIRECTOR, CYTOMETRIC LABORATORY:
The Division of Medical Genetics at the Mount Sinai Medical Center is seeking an experienced Ph.D. or M.D. cytogeneticist. Board eligibility or certification by the ABMG is required. Responsibilities include: (i) direction of a busy clinical cytogenetics laboratory, (ii) independent clinical and/or basic research and (iii) teaching. Reasonable salary negotiable. Send curriculum vitae and letters of reference to: R. J. Desnick, Ph.D., M.D., Mount Sinai School of Medicine, Fifth Avenue at 100th Street, New York, NY 10029.

DIRECTOR, MOLECULAR DIAGNOSIS LABORATORY:
The Mount Sinai School of Medicine is seeking a Director of a newly established Molecular Diagnosis Laboratory. Responsibilities will include (i) implementation of molecular diagnostic and quality control systems, (ii) participation in external quality assessment programs, and (iii) participation in reagent development programs. Submit curriculum vitae and names of three references to: Carmen A. Paladino, M.D., Director, Alkermes, Inc., 26 Landstowne Drive, Cambridge, MA 02139. Alkermes is an Equal Opportunity Employer.

DIRECTOR, PROVASOLI-GUILARD CENTER FOR CULTURE OF MARINE PHYTOPLANKTON

With the scheduled retirement of Dr. R. L. Guillard in 1989, the Bigelow Laboratory seeks an experienced research scientist to become the second director of the Center for Culture of Marine Phytoplankton (CCMP). Applications should be capable of maintaining a laboratory and associated staff with an annual core budget of about $200,000, and of developing an independent research program and maintaining a program consistent with the objectives of the CCMP. At least 6 months salary a year, negotiable according to age and experience, is provided. Send curriculum vitae and names of three references to: Carmen A. Paladino, M.D., Director, Bigelow Laboratory, P.O. Box 2, Northeast Harbor, ME 04657. The Bigelow Laboratory is an Equal Opportunity/Affirmative Action Employer.
HEART RESEARCH INSTITUTE, SYDNEY, AUSTRALIA

MOLECULAR BIOLLOGIST, BIOCHEMISTS AND CLINICAL RESEARCHERS
Macrophage pathology and physiology and free radical biochemistry

The Heart Research Institute, Sydney, Australia has newly been established to promote research into mechanisms and consequences of atherosclerosis. It is an autonomous Institute, with laboratories adjacent to Sydney University and the Royal Prince Alfred Hospital, both of which are closely involved with the Institute.

The Director Elect, Professor Roger T. Dean, is now seeking group leaders, post doctoral workers, research assistants and technicians, to start work in 1989 at dates to be agreed. There will later be opportunities for visiting workers and PhD students. Persons interested in any of these positions are requested to apply to the Director.

Salaries and conditions are based on the National Health & Medical Research Council, Australia, scales and the practice in other autonomous Australian research institutions. Contracts will be for periods up to 5 years, and in many cases renewable on the basis of performance. Post-doctoral workers will be accorded appropriate academic status in the University of Sydney.

The scientific programme of the Institute will concern, firstly, the role of the macrophage in the generation of foam cells in the atherosclerotic lesion; and secondly, the roles of free radicals in the deposition of lipid in such atherogenic processes and in damage subsequent to myocardial infarction. The objective of the Institute will be to seek preventive and prophylactic measures useful in relation to atherosclerosis. The work will be done at molecular biological, biochemical, cell biological, epidemiological and clinical levels.

Researchers with interests in these areas are invited to apply to:

Prof. Roger Dean
at the Cell Biology Research Group
Brunel University
Uxbridge, Middlesex, UB8 3PH
UNITED KINGDOM (Fax: + 44 895 32806)

within 6 weeks of the appearance of this advertisement. Please send a full curriculum vitae, names of two referees, two representative recent publications, and a brief statement of future research interests which relate to the above scientific programme. Interviews will be held in Sydney, London and the U.S.A.

EniChem Americas Inc.

has a postdoctoral position available in its Plant Molecular Biology Group at their Research Center near Princeton, N.J. EniChem Americas Inc is the American affiliate of EniChem—the chemical arm of ENI (Ente Nazionale Idrocarburi).

This vacancy presents a unique opportunity to join a group of highly motivated scientists developing programs on crop improvement through biotechnology. We are particularly interested in candidates with expertise in molecular biology to work in the area of gene expression in plants and/or plant transformation.

Successful candidates will enjoy the benefits of joining a new research team in a well-equipped, custom designed facility supported by a major European corporation.

Please send Curriculum vitae, statement of research interests and names of three references to:

Personnel Coordinator
Dr. D.A. Pierce
Group Leader Molecular Genetics

EniChem Americas Inc.
2000 Princeton Park Corporate Center
Monmouth Junction, N.J. 08852
Equal opportunity employer m/f

Fisheries Biologist

The SAVANNAH RIVER SITE offers three clear advantages: CAREER CHALLENGE, CAREER OPPORTUNITY, AND LOCATION NEAR AIKEN, SOUTH CAROLINA.

Operated for the United States Department of Energy, the Savannah River Site produces radioactive isotopes for national defense, medicine, and America’s space program. While this outstanding environment broadens your professional horizons, our geographical location offers a mild climate with access to some of the Southeast’s most attractive cultural and recreational resources.

The Savannah River Laboratory is seeking a freshwater fisheries biologist to join a multidisciplinary team of ecologists. Initial responsibilities will include writing and reviewing environmental reports and administration of environmental monitoring contracts. Long-term opportunities exist for applied research related to the effects of industrial effluents (thermal and/or chemical) on fish populations in reservoirs and coastal plain streams/wetlands. Strong statistical background and good writing skills are required. Minimum requirements include a Ph. D. degree in Fisheries or related field and two years experience in freshwater fisheries biology.

Salary is commensurate with your training and experience. Our highly regarded benefits program includes relocation assistance. For confidential consideration, please send letter of inquiry, curriculum vitae, and statement of research interests to: Professional Staffing, Building 719-4A, Room 1120, Savannah River Plant, Aiken, SC 29808.

An Equal Opportunity Employer M/F/H/V
U.S. Citizenship Required
**POSITIONS OPEN**

**ELECTRICAL AUDITORY PROSTHESSES PSYCHOPSYCHICS**
The House Ear Institute invites applications for Assistant or Director of Electrical Auditory Prosthesis Research. A senior staff position equivalent to associate or full professor. Candidates should have a Ph.D. in either audiology or psychology with postdoctoral research training and research experience in assessment of deafness in patients, psychophysics of prostheses, and test development. Preference will be given to candidates with current NIH funding and experience in conforming to FDA protocols and regulations. The Director will lead a team of junior and senior-level personnel involved in the design and implementation of prostheses evaluation projects and in test development to improve prosthetic evaluation. The applicant should be responsible for research with both adults and children and adhering to conformity to FDA regulations. The Director will supervise current and future psychophysical research on cochlear and cochlear nucleus implants as well as conduct his/her own research on electrical auditory prostheses. Salary and rank depend on experience. Please send resume and letter of interest to: Donald W. Nielsen, Ph.D., Executive Vice President, Research, House Ear Institute, 258 South Lake Street, Los Angeles, CA 90057. The House Ear Institute is an Equal Opportunity/Affirmative Action Employer.

**ELECTRON MICROSCOPE**
The Division of Molecular Virology and Immunology (DMVI), Department of Microbiology, Georgetown University Medical Center is recruiting for an electron microscopist with research interests in cell biology/animal virology to manage a core EM facility. The activities of the core unit involve collaborative interactions with scientists of the DMVI in research on the pathobiology of HIV and hepatitis viruses, immune hypersensitivity/mast cell/basophils and host defense mechanisms/mechanisms of apoptosis. Applicants with a strong background and supporting publications in animal virology are preferred. Academic appointment to the research track and salary commensurate with experience. Send letter of application, curriculum vitae, selected reprints to:

Dr. John L. Gerin Director, Division of Molecular Virology and Immunology Georgetown University Medical Center Rockville, MD 20852

An Equal Employment/Affirmative Action Employer.

**FACULTY POSITION IN BIOCHEMISTRY MEDICAL COLLEGE OF OHIO**
The Department of Biochemistry, Medical College of Ohio, invites candidates to apply for a tenure-track position at the assistant professor level. The Department is expanding its faculty to include those with research interests that extend its present programs, which include regulation of gene expression, mechanisms of hormone action, protein structure-function relationships, antimicrobial peptides, protein kinases, posttranslational modification of proteins, protein hormone analogues, neuroendocrine regulation, membrane receptors, growth factors, and oncogene function. Candidates who employ molecular approaches to their research problems are particularly encouraged to apply. Responsibilities will include establishment of an active research program and participation in the teaching of medical and graduate students. Research facilities will include a core laboratory with state-of-the-art equipment for peptide and oligodeoxynucleotide synthesis, and for protein sequence and functional analyses. The application deadline is 15 October 1988. Send curriculum vitae, brief summary of research goals, and three letters of reference to:

Dr. Larry Gentry Chairman, Search Committee Department of Biochemistry Medical College of Ohio P.O. Box 99 Toledo, OH 43699

An Equal Opportunity Employer.

**ENVIRONMENTAL SPECIALISTS**
Limnologists, wetland and estuarine ecologists, environmental scientists. The Saint John's River Management District has several openings in applied research and research management for surface water restoration and preservation programs. Appropriate areas of emphasis include aquatic ecology, limnology, wetland and estuarine ecology, and environmental sciences. Starting salaries are commensurate with experience and vary approximately $20,000 to $28,000. Each individual's degree, experience, and related sciences required. Send resume to: Saint John's River Management District, Office of Employee Relations, P.O. Box 21708, Monticello, FL 32307-1429. Equal Employment Opportunity/Affirmative Action/Veteran Preference Employer.

**ENZYME IMMOLIZATION**
Immediate position available for RESEARCH SCIENTIST with experience in immobilization of proteins to biocompatible membranes. Position focuses on the development of bioreactors for use during surgery to study cell adhesion and spread of cancer cells. Experience in micro- and immobilized enzyme technology required. Starting salary will be commensurate with experience and vary approximately $20,000 to $28,000. Each individual's degree, experience, and related sciences required. Send resume to: Saint John's River Management District, Office of Employee Relations, P.O. Box 21708, Monticello, FL 32307-1429. Equal Employment Opportunity/Affirmative Action/Veteran Preference Employer.

**FACULTY POSITION IN BIOCHEMISTRY OF THE UNIVERSITY OF NEBRASKA MEDICAL CENTER**
The Department of Biochemistry of the University of Nebraska Medical Center at Omaha is seeking a qualified individual to fill an assistant professor position. All applicants should hold a Ph.D. in biochemistry or a related discipline and should have postdoctoral experience in structural biology. Salary will be commensurate with education and experience. We are primarily interested in an individual who will be able to set up a research program in protein structure and who will oversee a protein crystallography laboratory. The successful applicant will be expected to develop a new biochemistry-related program and to contribute to building a strong graduate program in biochemistry. Please forward curriculum vitae, a statement of research goals, and three letters of recommendation to: Dr. Edward Bresnick, Department of Biochemistry and Molecular Biology, University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, NE 68105. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer.

**FACULTY POSITION IN MICROBIOLOGY**
McGill University invites applications for a tenure-track faculty position in the Department of Microbiology and Immunology. The rank of the appointment will be commensurate with experience. Applications are encouraged from candidates who use modern approaches to study molecular mechanisms of microbial pathogenesis. Applications will also be considered from candidates who have a Ph.D. in the fields of environmental microbiology, in vitro microbiology, and epidemiology. All successful candidates will be expected to develop a research program and to supervise the training of graduate students. Additional responsibilities include the participation in the teaching and provision of laboratory courses. In accordance with Canadian immigration requirements, the advertisement is directed to Canadian citizens and permanent residents of Canada. Interviews are expected to take place in May 1989. Applicants should submit curriculum vitae, a one-page statement of research interests, and the names of three references to:

Dr. Robert A. Murgia Department of Microbiology and Immunology McGill University 3777 University Street Montreal, Quebec, H3A 2B4 Canada

**FACULTY POSITION IN MOLECULAR NEUROBIOLOGY AT THE UNIVERSITY OF TEXAS MEDICAL SCHOOL AT HOUSTON**
The Department of Neurobiology and Anatomy is recruiting for a tenure-track position in the area of molecular neurobiology. The Department is expanding its faculty in the general area of neuronal and synaptic plasticity. Preference will be given to an appointment at the associate professor level, but a position will be offered to candidates at higher levels. Existing research programs in the Department include neuronal development, cellular and molecular neuroendocrinology, vision, neuroimmunochemistry, vision, and neuropharmacology. Experimental laboratory facilities and start-up funds and competitive State support for new faculty are available to outstanding individuals who intend to develop a strong and independent research program. Those who wish to be considered should send a resume, letters of reference, and a brief description of research interests to: Dr. Paul T. Kelly, Department of Neurobiology and Anatomy, The University of Texas Medical School at Houston, P.O. Box 20708, Houston, TX 77225. The University of Texas is an Equal Opportunity Employer. Women and Minorities are encouraged to apply.

**FACULTY POSITIONS AT THE GEORGIA INSTITUTE OF TECHNOLOGY**
The School of Chemistry and Biochemistry, Georgia Institute of Technology, invites applications and nominations for the following two positions:

**ANALYTICAL CHEMISTRY.** Candidates in all areas will be considered particularly those interested in separation science, surface analysis, and bioanalytical chemistry.

**BIOCHEMISTRY.** Candidates in all areas will be considered including those interested in physical biochemistry (computational biochemistry, molecular dynamics, protein folding, physical techniques) and organic chemistry.

**ORGANIC CHEMISTRY.** Candidates in all areas will be considered particularly those with interests in new synthetic methods or in advanced materials research. Outstanding scientists with significant laboratory facilities and industry are encouraged to apply. Appointments will probably be at the assistant professor level, but applications for senior positions may be considered.

A complete application must include curriculum vitae, a two to three page description of proposed research, copies of graduate and undergraduate transcripts, and letters from at least three professional references. The closing date for completed applications is 31 October 1988. Candidates who wish to have their materials considered should send applications to: Professor Robert A. Pierotti, Director, School of Chemistry and Biochemistry, Georgia Institute of Technology, Atlanta, GA 30332. Dr. Pierotti is a member of the University System of Georgia and an Equal Opportunity/Affirmative Action Employer.

**HEARING AID RESEARCH**
The House Ear Institute invites applications for Assistant Director or Director of HEARING AID RESEARCH, a senior staff position equivalent to associate or full professor. Candidates should have a Ph.D. in either audiology, psychology, or hearing or speech science, with postdoctoral research training and experience in hearing aid evaluation, assessment of hearing impairment, and test development. Preference will be given to candidates with significant NIH funding and experience conducting confidential research with commercial companies. The Director will lead a multi-disciplinary team in research in the design and development of hearing aid evaluation research projects and in test development to improve hearing aid and other hearing device technology. Applicants should have a Ph.D. or equivalent degree with experience in research and development in the field of hearing aids. Experience in audiology and audiological research in hearing aid technology. A successful candidate will be expected to develop a research program and to supervise the training of graduate students. In addition, the candidate will be expected to design and conduct research in auditory or hearing aid related areas. The candidate will be given the opportunity to conduct research in the area of hearing aids and to develop a research program in collaboration with the current research activities at the House Ear Institute. Salary and rank depend on experience. Please submit resume and letter of interest to: Donald W. Nielsen, Ph.D., Executive Director, Research, House Ear Institute, 256 South Lake Street, Los Angeles, CA 90057. The House Ear Institute is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

**FACULTY POSITION RESEARCH INSTRUCTOR—**Participate in and initiate laboratory studies with members of the reproductive endocrinology division. Two years of postdoctoral experience required. Training or research experience in cell biology or biochemistry with particular emphasis on regulation of steroidogenesis and growth factors. Preference will be given to those with experience in electron microscopy and in situ hybridization. Please submit curriculum vitae to: Dr. Bruce Carr, Professor, Department of Obstetrics and Gynecology, University of Texas Southwestern Medical Center at Dallas, 3323 Harry Hines Boulevard, Dallas, TX 75235–9032. The University of Texas is an Equal Opportunity Employer.

**ENVIRONMENTAL TOXICOLOGY**
**DEPARTMENT**
**UNIVERSITY OF CALIFORNIA, DAVIS**

**GEOCHEMICAL TOXICOLOGIST,** assistant professor of environmental toxicology/assistant geochemical toxicologist in the Agricultural Experiment Station, available starting 1 September 1988. Eleven-month, teaching and research, tenure-track appointment. Requirements include Ph.D. in environmental toxicology or environmental chemistry, or related discipline and/or a strong background in environmental biochemistry. The area of research specialization will be either chemical or biochemical studies on the environmental occurrence, fate, and health effects of toxicants of a primarily inorganic nature. Examples might include inorganic interactions, exposure assessment, and toxic wastes related to agricultural/environmental concerns. Teaching will include the equivalent of two formal courses per year, advising, and supervision of undergraduate and graduate students. By 15 September 1988, send résumé, transcripts (official transcripts if the Ph.D. was granted in the past 5 years), list of publications, and names and addresses of three references to: Chairmain, Geochemical Toxicologist Search Committee, Department of Environmental Toxicology, University of California, Davis, CA 95616.

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

**GEOGRAPHIC MEDICINE**

The Division of Geographic Medicine, Department of Medicine, University of Alabama, School of Medicine, Birmingham, Alabama, announces the availability of additional FACULTY POSITIONS. Academic rank will be determined by the qualifications of the individual appointed. Assistant/associate professors and instructors are being sought. The positions are open to individuals fulfilling these criteria: (i) Having a research background that enables him/her to perform independent research and being committed to major involvement in personal and divisional research programs. (ii) Having a firm commitment to and involvement in teaching programs for medical students, housestaff and fellows. (iii) Adding expertise in the management of patients. To apply send full credentials to: Director, Division of Geographic Medicine, Department of Medicine, 621 Medical Education Building, University of Alabama Medical Center, Birmingham, AL 35294. UAB is an Equal Opportunity/Affirmative Action Employer.

**HEAD, ANATOMIC PATHOLOGY,** Ottawa General Hospital and Faculty, Department of Pathology, University of Ottawa. A GFT faculty position for an anatomic pathologist with an academic track-record and administrative skills is available at the Ottawa General Hospital, a tertiary care 580-bed hospital where 12,000 surgical and 14,000 cytopathology cases are processed yearly. The hospital is affiliated with the University of Ottawa, School of Medicine. Research facilities are available both in the hospital and the university. Undergraduate and postgraduate teaching are required. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. Send letters of inquiry, curriculum vitae and three references to: Dr. Samuel W. French, Professor and Chairman of Pathology, University of Ottawa, School of Medicine, 14 St. Smyth Road, Ottawa, Ontario, Canada, K1H 8M5.

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**TOXICOLOGISTS**

ICI Americas Inc. has several career opportunities conducting mammalian toxicity studies available at its Environmental Health Center located in Farmington, CT. Responsibilities include participation in the design of studies, preparation of protocols, implementation and overall supervision of studies, evaluation and interpretation of results, and preparation of written reports and summaries. These positions offer excellent opportunities for collaborative work in the pathogenesis of toxic effects.

Qualified candidates should have a Ph.D. or equivalent in toxicology, pharmacology or related life science and strong communications skills. A background in neurotoxicology or inhalation toxicology would be plus. One to three year's experience with agricultural/industrial chemicals in a contract or industrial laboratory is desirable.

ICI Americas Inc offers on-going growth opportunities, excellent salaries and an attractive package of paid company benefits. The Environmental Health Center is adjacent to the University of Connecticut Health Center, in one of the state's most attractive semi-rural towns. To apply, please send your resume, a brief description of your experience, and your salary requirements to: Lois Lumbert, ICI Americas Inc., 400 Farmington Ave., Farmington, CT 06032. We are an Equal Opportunity Employer M/F.

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**Environmental Scientists/Toxicologists**

International Technology Corporation, a leader in the environmental management field, is expanding its capabilities in the area of health and environmental risk evaluation.

We have immediate openings for Ph.D.'s in toxicology, environmental chemistry and biology, public health and epidemiology. The ideal candidates will have a minimum of two years' post-doctoral work experience and knowledge of:

- the conduct of health and environmental risk assessments
- federal environmental and hazardous waste regulations including CERCLA and RCRA

Computer literacy and excellent communication skills are essential.

The positions in Knoxvile, TN and Pittsburgh, PA are with multi-disciplinary groups that provide opportunities to contribute to the success of large environmental restoration projects. The persons selected will also be involved in resolving technical issues with regulatory agencies and representing the company at scientific and trade association meetings.

We offer a salary commensurate with experience and education and an attractive fringe benefit program. Candidates should forward their resumes in confidence to: Tony Dury, International Technology Corporation, 2790 Mossede Boulevard, Monroeville, PA 15146. An Equal Opportunity Employer M/F/H/V.
AERONOMER - BRANCH CHIEF
SPACE SCIENCE LABORATORY
NASA/George C. Marshall Space Flight Center
Huntsville, Alabama 35812

The Solar-Terrestrial Physics Division is seeking a highly qualified individual to serve as Chief of the Atomic Physics and Aeronomy Branch. The Branch is involved in an active research program in the physics and chemistry of the upper atmosphere and ionosphere. Research Programs are currently underway in stratospheric, meso-thermospheric, and lower magnetospheric photochemistry, energetics, and dynamics. Instruments for Space Shuttle, satellite, and high altitude balloon investigations of these regions currently emphasize state-of-the-art optical systems over wavelengths extending from the extreme ultraviolet to the infrared. Well-equipped laboratory facilities are available within the Branch to support instrument design, development, and calibration. Computer facilities available include VAX minicomputers together with IBM and CRAY machines. Extensive theoretical modeling of the thermosphere, ionosphere, and plasmasphere is underway, and efforts are being made to strengthen modeling of the middle atmosphere. In addition to performing his/her own research, the incumbent will be expected to guide the work of the Branch and to pursue new directions as appropriate. Salary will be $46,679 - $71,377, depending on experience and qualifications. Further technical information concerning the position can be obtained by calling Dr. M. R. Torr (205-544-7678).

Qualifications: The successful candidate must be a recognized research scientist with administrative interest. In addition, candidates must have completed an appropriate professional academic background in science and/or engineering, plus have increasing responsibility experience directly related to the duties of the position.


An Equal Opportunity Employer
U.S. Citizenship Required

ANALYTICAL BIOCHEMIST

Continued expansion at the Lever Research and Development Center, the principal research arm of Lever Brothers, a wholly owned subsidiary of Unilever, the world's largest consumer package goods company, creates an immediate need for a qualified Biochemist in Analytical Chemistry.

The responsibilities will include establishing new analytical methods for biomolecules with emphasis on enzymes and collaborating effectively with scientists from other departments.

The position requires a Ph.D in Biochemistry or a related area of chemistry with experience in the analysis/characterization of enzymes, modern methods of protein purification and sequencing. A strong background in chemical reaction mechanisms is a plus.

As a member of the Lever Research and Development team, you will work with state-of-the-art instrumentation in an exciting, growth oriented organization, and will also have the opportunity to interact with Scientists associated with Unilever's European Research Laboratories. If you wish to be considered for this position, submit your resume to: Mr. Robert S. Blevins, Manager of Personnel, Lever Research Inc., 45 River Road, Edgewater, New Jersey 07020.

An Equal Opportunity Employer

The science of a great career.

Liposome Technology, Inc. (LTI), develops and manufactures innovative liposome-based products. These products are designed to improve efficacy, safety and convenience of pharmaceutical products. Impressive technological breakthroughs have created an exciting opportunity in our San Francisco Peninsula research headquarters for a:

Physical Chemist

Your primary responsibility will be to conduct method development research on the physical characterization of liposomes. You will focus on particle size determination, surface charge and liposome structure. In addition, you will recommend new equipment acquisition for these studies. Requires a PhD in physical chemistry and a knowledge of dynamic light scattering, electron microscopy, electrophoretic mobility and thermal and spectroscopic methods.

LTI is committed to providing its employees with both sophisticated facilities and a competitive salary and benefits package. For immediate consideration, please send your resume, to: LTI, Dept. HR/PC, 1050 Hamilton Court, Menlo Park, CA 94025. Principals only; please, no phone calls. LTI is an equal opportunity employer.
Research Scientists

Triton Biosciences Inc. is a biotechnology company focused on diagnostics and pharmaceuticals for cancer and other life threatening diseases. This entrepreneurial subsidiary of Shell Oil Company is seeking goal-oriented researchers with experience in the diagnostics industry to help create high quality products that fill critical medical needs. Current opportunities include:

**Infectious Disease**
Requires a PhD in Microbiology or equivalent experience. Duties will include the purification and antigenic analysis of viral proteins, evaluation of monoclonal antibodies and the construction of sensitive immunoassays. Refer to Box SC.

**Molecular Immunology**
Requires a PhD in Immunology or Biochemistry with further postdoctoral experience in the immunological and molecular characterization of protein antigens. Background in tumor markers, cancer immunology and immunoassay development desirable. Refer to Box RW.

**New Cancer Marker**
Requires a PhD in Cancer Biology, Immunology or equivalent experience with expertise in the evaluation of cancer markers. Duties include effective interaction with a multidisciplinary team in evaluating new cancer markers for diagnostic use. Refer to Box GL.

**Histopathology/Oncogene**
Requires a PhD in Biological Sciences or equivalent with experience in immunohistochemistry. Duties will include the evaluation of antibodies to oncogenes, mucins and other new cancer markers as well as developing immunohistochemical reagents. Refer to Box YT.

Triton offers competitive salaries and benefits including relocation assistance. For consideration, send CV, with salary history and references to: Triton Biosciences Inc., 1501 Harbor Bay Parkway, Alameda, CA 94501. An Equal Opportunity Employer.

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**PHARMACOLOGY RESEARCH SCIENTISTS**

The Dermatological Research Group of the Bristol-Myers Pharmaceutical Research and Development Division has two career opportunities for Research Scientists at our state-of-the-art laboratories in Buffalo, New York.

**SENIOR RESEARCH SCIENTIST**

This position requires a Ph.D. in Biochemistry or Pharmacology with 3-5 years experience in general pharmacological techniques. The successful candidate will be expected to develop an independent research effort to develop new models of cutaneous disease. This scientist also will be responsible for identifying new drugs for the treatment of psoriasis and acne. Experience in the biology of retinoids would be especially helpful. Supervisory experience and leadership skills are important since this position will supervise other scientists.

**RESEARCH SCIENTIST**

To qualify for this position a Ph.D. in Biochemistry, Pharmacology, or related area and 1-3 years experience is required. This scientist will be responsible for initiating a research program on skin aging. Responsibilities include cutaneous model development and screening of potential drugs. Research experience in photobiology would be desirable.

These positions offer an opportunity to work on exciting scientific programs in Dermatology. A very attractive and competitive salary and comprehensive benefits package is available. Submit resume and salary requirements in confidence to:

Manager, Human Resources

Bristol-Myers Company
Pharmaceutical Research & Development Division

100 Forest Avenue
Buffalo, NY 14213

An Equal Opportunity Employer M/F/H/V
POSITIONS OPEN

MOLECULAR BIOLoGIST

Tenure-track position at the assistant/associate rank beginning August 1998 for a molecular biologist. Ph.D. required. Candidates must demonstrate a commitment to teach undergraduate students, a desire to involve undergraduates in scholarly activity, and a willingness to teach non-major service courses. The candidate will be expected to develop and teach an undergraduate molecular biology course and establish an independent research program. Salary and fringe benefits are excellent. Send letter of application, curriculum vitae, transcripts, a statement of goals for research and teaching, and three letters of recommendation to: R. Scott Coggeshall, Department of Biology, 2712 University, University of California, Davis, CA 95616.

NEUROPHARMACOLOGIST/ELECTROPHYSIOLOGIST: Independent faculty position in expanding Neuroscience Program. Interest in psychopharmacology and neuroelectric drug mechanisms desirable. Expertise in extra- and intracellular recording techniques essential. Rank commensurate with experience. Send curriculum vitae, research statement of research plans, and names of three references to: Dr. Robert Schwarz, Ph.D., Maryland Psychiatric Research Center, P.O. Box 13160, Baltimore, MD 21228.

NEUROSCIENTIST

Applications are invited for a position as assistant professor (tenure-track) in the Department of Neurobiology and Anatomy at the University of California, San Diego. We are searching for a neuroscientist whose research involves the developmental and functional organization of neuronal systems. We are particularly interested in the use of genomics to elucidate the cellular and molecular basis of behavior. Initial appointment will be at the assistant professor level. Applications should include a curriculum vitae, a statement of research interests, and the names of three references to: Dr. John C. Kwan, Department of Neurobiology and Anatomy, Box 2165, La Jolla, CA 92037.

POSITIONS OPEN

NMR SPECTROSCOPY

RESEARCH POSITION AVAILABLE

An NMR scientist is being sought to join the faculty of the University of Michigan, Department of Radiology. Faculty rank and tenure/research track are dependent on qualifications and interest. A background in biochemical and/or physiological applications of NMR and a Ph.D. degree in a field such as biochemistry, physiology, biophysics, or related field such as chemistry, or physics are required. Experience with in vivo NMR spectroscopy is preferred. Current facilities include a 2.0T, 31 cm bore spectroscopy and imaging system, 1.5T head and body imagers, a 1.5T head and whole body imaging/spectroscopy system, 20 and 60 MHz spectroscopy and an image processing computer system. An additional, very high field NMR research system is anticipated, as is a substantial research initiation package. Please write and send curriculum vitae to: William M. Schutz, M.D., Professor and Chairman, Department of Radiology, University of Michigan Hospitals, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0030.

The University of Michigan is an Equal Opportunity Employer.

The Department of Pediatrics at the University of Michigan is seeking an individual who is sub-board certified in PEDIATRIC NEUROLOGY. The position requires the skills likely to support a career in academic medicine. Interested physicians are requested to send their curriculum vitae with a statement of personal goals to: Dr. C. E. H. Johnson, Department of Pediatrics, University of Michigan Hospitals, 1500 East Medical Center Drive, Ann Arbor, MI 48109-0038.

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

Organic Chemist

The Position

Organic chemists are needed to perform research and development of new pharmaceuticals. The candidate will be expected to have experience with advanced organic chemistry and be able to work in a team of researchers.

Responsibilities

- Conduct research in the area of organic chemistry
- Prepare and purify organic compounds
- Maintain laboratory equipment
- Write reports and technical documentation

Qualifications

- Ph.D. in organic chemistry
- At least 3 years of experience in the field
- Excellent communication and interpersonal skills

Please submit a resume and cover letter to: OrganicChemistryDept@PharmaCo.com

The Agricultural Research Service, of the U.S. Department of Agriculture, seeks a POSTDOCTORAL ASSOCIATE IN BIOCHEMICAL NUTRITION to assist in the research area of nutrition and metabolism. The position is for a period of 2 years with the possibility of extension. The selected candidate will conduct research in the area of nutrition and metabolism, focusing on the regulation of carbohydrate and lipid metabolism in the body. The position is open to candidates with a Ph.D. in biochemistry, nutrition, or related fields. Current funding is available. Salary is commensurate with qualifications, with a minimum of $27,000 annually. For further information concerning the position, contact: Dr. Michael J. Murphy, Chief, Division of Biochemistry, U.S. Department of Agriculture, Agricultural Research Service, Beltsville, MD 20705.

The U.S. Department of Agriculture is an Equal Opportunity Employer.
POSTDOCTORAL POSITIONS

Weis Center for Research-Geisinger Clinic

Applications are encouraged from individuals with backgrounds in cell biology, biochemistry, physiology or molecular biology. Areas currently under investigation by staff scientists include:

- Role of extracellular matrix in growth and development of glial and vascular smooth muscle cells.
- Structure and function of G-proteins involved in neuro-hormonal signaling.
- Control of CAMP production and ribosome formation in response to cellular deformation and pressure overload in the heart.
- Isoprenoid synthesis and post-translational protein modification in relation to cell cycling and differentiation.
- Fatty acid metabolism and coenzyme A synthesis in cardiac muscle.
- Mechanisms of cell damage during myocardial ischemia.
- Structure, function, regulation and molecular genetics of vascular smooth muscle cell surface and extracellular proteoglycans.
- Regulation of the turnover of ribosomal RNA and proteins in cardiac hypertrophy.
- Molecular and biochemical mechanisms of action of angiotensin peptides in the cardiovascular system.

The Weis Center is a new basic research institution affiliated with the Geisinger Clinic. We offer superb facilities, competitive salaries and benefits, and an interactive environment. The Center is located in an attractive, semi-rural setting in Northeastern Pennsylvania.

For consideration please send curriculum vitae, brief statement of research interests, and names of three references to:

Howard E. Morgan, M.D.
Senior Vice President for Research
Weis Center for Research
Geisinger Clinic
Denville, PA 17812

Equal Opportunity Employer M/F/H/V

Opportunities For

MOLECULAR VIROLOGISTS

Committed To Scientific Excellence

The Sterling Research Group announces several openings in the expanding antiviral research program in the Microbiology Department at the Sterling-Winthrop Research Institute in Rensselaer, NY.

The successful candidates will possess a Ph. D. degree in virology or molecular biology with relevant postdoctoral experience. The scientists will be expected to apply current molecular techniques to the analysis of the replication and pathogenesis of several viruses of biomedical importance. Supervision of other scientific staff is expected and strong interpersonal and communication skills are required.

Located near Albany, NY, we offer an attractive salary and benefits package as well as opportunities for professional development in a dynamic environment utilizing a multidisciplinary approach to research. Interested scientists should send curriculum vitae in confidence to:

Mr. John P. Harvey
Employment Relations Administrator

STERLING-WINTHROP RESEARCH INSTITUTE
Sterling Research Group
A Division of Sterling Drug Inc.
Rensselaer, NY 12144

Equal Opportunity Employer M/F/H/V

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
POSTDOCTORAL POSITION available immediately to study thyroid hormone (T3) action on keratin gene expression during development, when T3 appears to act via regulatory genes, as opposed to its action in adult tissues where it directly activates tissue-specific genes. Experience with molecular techniques required. Send curriculum vitae to: Dr. Leo Miller, Laboratory for Cell, Molecular and Developmental Biology, M/C 056, University of Illinois at Chicago, Box 4348, Chicago, IL 60680.

POSTDOCTORAL POSITION now available for collaborative studies of growth factor synthesis and function in hormone responsive and unresponsive prostate cancer cells. Molecular studies of hormonal regulation of gene expression and biochemical studies of growth factor function will be pursued with Dr. Sydney A. Shain. Candidates must have strong background and laboratory experience in cell biology and/or molecular biology. Appointments are for 1-year periods up to 3 years. Send curriculum vitae and the names and telephone numbers of three references to: Personnel Director (847), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78284. Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION available to study interactions of glycosaminoglycans with serine proteinase inhibitors and cell adhesion molecules. Ongoing projects include investigation of ligand-binding sites of heparin cofactor II by site-directed mutagenesis of the cDNA, elucidation of the structures of heparin and dermatan sulfate oligosaccharides that stimulate heparin cofactor II, and sequence analysis of dysfunctional variants of heparin cofactor II. In addition, phosphorylation of a serine residue in the heparin-binding domain of vitronectin is being investigated. Experience in protein chemistry or molecular biology is desirable. Send curriculum vitae and the names of three references to: Dr. Douglas M. Tollefsen, M.D., Ph.D., Hematology-Oncology—Box 8125, Washington University Medical School, 660 South Euclid, St. Louis, MO 63110.

POSTDOCTORAL POSITION available immediately to study the alkaline phosphatase (APase) gene family of B. subtilis. Studies include (i) analysis of the overlapping regulation by sporulation control and the phosphate regulation on the individual APase genes and (ii) analysis of factors determining the final destination of the mature APase proteins. Experience in biochemistry and/or molecular genetics is desirable. Send curriculum vitae and names of three references to: Dr. F. Marion Hulet, Laboratory of Cell, Molecular and Developmental Biology, University of Illinois at Chicago, P.O. Box 4348 m/c-067, Chicago, IL 60680. An Equal Opportunity Employer.

POSTDOCTORAL POSITION available 15 September 1988 for studies of calcitonin gene regulation (including transcription and alternative RNA processing). Position is cooperative effort between the Departments of Medicine, Cell Biology, and Biochemistry of the Baylor College of Medicine. Candidate must have completed work for Ph.D. or equivalent degree. Send curriculum vitae and letter describing current scientific interests and names of three references to: Dr. Robert F. Gagel Baylor College of Medicine 200 Holcombe Boulevard (111E) Houston, TX 77030 Equal Opportunity/Affirmative Action Employer.

OLIGONUCLEOTIDE CHEMIST

We seek an individual to operate a central facility in nucleic acid chemistry in the Cancer Center of the Worcester Foundation for Experimental Biology. This position, and the facility, is supported by a NCI Cancer Center core grant (Dr. Thoru Pederson, Principal Investigator). The appointee will be responsible for automated synthesis of oligonucleotides for cloning, sequencing and hybridization projects in the Center, and for organic synthesis of modified nucleotides and oligonucleotides. The facility is associated with a group working on therapeutic applications of antisense oligonucleotides (Dr. B. Marshall and John Goodchild), and the appointee will have scientific interactions with this and other nucleic acid expression research groups in the Center. A Ph.D. degree in Organic Chemistry is preferred although other candidates with relevant experience in oligonucleotide chemistry will be considered. The Worcester Foundation is a nonprofit, basic research institute located on a 400-acre wooded campus 38 miles west of Cambridge. Send curriculum vitae and a synopsis of research interests and career objectives including the names of three individuals who could be contacted to: Oligonucleotide Chemist, C/O Personnel Office. Worcester Foundation for Experimental Biology 222 Maple Avenue Shrewsbury, MA 01545 USA AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER M/F

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

Five positions, supported by the PHS Neuroscience Program, are available for studies related to neuronal transplantation beginning September 1, 1988. Investigative areas include:

- allogeneic and xenogeneic fetal transplants.
- peripheral neural and paraneural transplants.
- immunobiology of neuronal transplants.
- development of cell lines for transplantation.

Mentors for these studies include Drs. David Felen, Don Gash, Ira Shoulson and John Stadler. Stipends $20,000 and up depending on background and experience. Send vita, summary of research interests and names of three references to: Professor Don M. Gash Primate Transplantation Program Department of Neurobiology and Anatomy, Box 603 University of Rochester School of Medicine Rochester, New York 14642

An equal opportunity employer.

UNIVERSITY OF ROCHESTER MEDICAL CENTER
Biotechnology Research

For the most advanced research opportunities in protein drug delivery and genetically engineered human therapeutics, consider California Biotechnology Inc. Our focus on the union of innovative science and good business has attracted some of the most respected researchers in the industry. Currently we have positions available in the following critical research areas:

Staff Scientist
Senior Scientist
Scientist
Diabetes & Obesity
A PhD and knowledge of the sciences relating to diabetes and/or obesity (e.g. animal models of these diseases or insulin chemistry, biosynthesis or action) is essential for all positions. Expertise in molecular biology and/or protein chemistry is strongly desired. Staff and Senior Scientist positions require post-doctoral experience.

Scientist
Drug Delivery Formulation
Major responsibilities include the physicochemical characterization of proteins and peptides in solution, bioanalytical method development, investigations into the mechanisms of protein transport across mucous membranes and alternative dosage form design. A PhD in biochemistry, physical chemistry, or pharmaceutical chemistry is required; post-doctoral experience preferred.

Scientist
Neurotrophic Factors
This position calls for someone with a PhD and expertise in protein purification/characterization and immuno assays to work with a group applying biotechnology to the development of novel therapeutics for neuropathies and neurodegenerative diseases. Familiarity with the characterization of polypeptide hormones and their receptors is a plus.

Sr. Research Associate
Alzheimer’s Disease
Requirements for this position include a BS/MS, as well as recombinant DNA and tissue culture experience. Research experience in neurobiology is a plus.

Research Associate
Monoclonal Antibodies
Handle all aspects of hybridoma tissue culture, including conducting cell fusions, developing clonal lines, and maintaining, expanding, and freezing cells. Requirements include a BA/BS with coursework in immunology, 1-3 years’ experience, and sterile tissue culture expertise.

Our excellent compensation and benefits program includes a flexible time-off plan. For immediate consideration, please forward your curriculum vitae, indicating position of interest, and three references (Scientist positions require 3 letters of reference) to Liza Mingione, California Biotechnology Inc., Human Resources, 2450 Bayshore Parkway, Mountain View, CA 94043. We are an equal opportunity/affirmative action employer.

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1515 BROADWAY
NEW YORK, N.Y. 10036

Senior Research Scientist
Toxicology

G.D. Searle is a worldwide leader in the pharmaceutical industry with a constant innovation and continuing commitment to high performance standards. To ensure progress in our Product Safety Assessment Department, we seek an experienced Toxicology Research Scientist for a Senior position.

Reporting to the Director of Toxicology, the selected candidate will manage the scheduling, conduct and reporting of assigned general toxicology projects and studies, including short and long-term rodent and nonrodent systemic toxicity studies. Initiating task forces to solve technical/mechanistic problems will also be involved in addition to providing toxicology expertise for various internal functions and external groups.

To qualify, you should possess a Ph.D. in Toxicology or related discipline and have an understanding of applicable regulations for IND and NDA submissions and GLP conformance. 8-10 years of industrial toxicology experience, with direct involvement in laboratory operations is required, as is a supervisory/management background. We prefer an individual who is a Diplomat of the American Board of Toxicology with knowledge of broader requirements for product development on a worldwide basis. Experience with managing toxicology of related areas in drug safety evaluation and designing and conducting special studies is also desired.

We offer a stimulating scientific environment, strong growth potential, and excellent compensation and benefits. For consideration, please send resume and salary history to: G.D. Searle & Co., Human Resources Dept. CMZ, 4901 Searle Parkway, Skokie, IL 60077. Equal Opportunity Employer M/F.
POSTDOCTORAL POSITION available immediately, for involvement in research on folic acid metabolism and endothelial damage. Applicants with a background in protein purification and molecular genetics are encouraged. Send vitcme and reprints to: Dr. David Kang, Department of Pediatrics, Genetics Section, Rush Medical College, Chicago, IL 60612. Telephone: 312-942-6298.

POSTDOCTORAL POSITION available at the Department of Plant Pathology, University of California, Davis, from 1 September 1988, for the biochemical analysis of RNA polymerase II in vitro transcription in Neurospora. Applicants should have solid experience in protein chemistry, plus ideally some experience with DNA binding proteins or DNA/RNA techniques. Send curriculum vitae plus names of three references to: Brett Tyler, Present address: Research School of Biological Sciences, Australian National University, P.O. Box 478, Canberra ACT 2601, Australia.

POSTDOCTORAL POSITION IN FETAL PHYSIOLOGY/ENDOCRINOLOGY

Available January 1989, position supported by USPHS-NIH Training Grant. Regulation of several fetal endocrine systems and the cardiovascular system are under investigation. Studies include: development of the hypothalamic-pituitary-adrenal axis, the hormonal and nervous control of the onset of labor, and cardiovascular-endocrine interactions, and placentonal transport of ions. Studies involve the use of in vitro and in vivo methods, and classical and mathematical modeling. Applicants should have a strong background in endocrinology, physiology, or cell biology. Send curriculum vitae and names of three references to: Dr. D. Longo, Division of Perinatal Biology, Department of Physiology, School of Medicine, Loma Linda University, Loma Linda, CA 92350. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN PEPTIDE CHEMISTRY now available. Will design and do synthesis, purification, characterization, and use of peptides for immunochemical studies related to HIV vaccine development. Work will be coordinated by Dr. Patrick Kanda. Requisite experience in peptide or protein purification and characterization with Ph.D. in biochemistry or related area. Area of expertise from $20,500 to $23,920, dependent upon experience. Please mail curriculum vitae and telephone number of three references to: Personnel Director (868), Southwest Foundation for Biomedical Research, P.O. Box 38147, San Antonio, TX 78284. Equal Opportunity Employer M/F.

POSTDOCTORAL POSITIONS (two) available immediately, to study molecular mechanisms underlying hormone transcriptional regulation. Applicants will be paid to mitigate hormone action and regulation of cellular phosphorylated metabolism. One position will be filled with a person interested in protein purification. Send curriculum vitae and names of three references to: Dr. L. M. Fredrik Leeb-Lundberg, Department of Biochemistry, The University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7760. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROENDOCRINOLOGY

A postdoctoral position is available 1 December 1988 for the study of biosynthetic mechanisms involved in opioid peptide production in chromaffin cells [13, 25, 48 (1988)] and cell lines transfected with opioid peptide cDNA. An additional position is available to work on the purification and molecular cloning of an enkephalin-generating trypsin-like enzyme. Experience in protein purification and/or molecular genetics is helpful in this environment, and funding for these studies are excellent; starting date is negotiable. Send curriculum vitae and names, addresses and telephone numbers of three references to: Dr. Iris Lindsberg, Department of Biochemistry and Molecu- lar Biology, Louisiana State University Medical Center, 1901 Perdido Street, New Orleans, LA 70112. LSU/MC 23501. Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately for postdoctoral training in interdisciplinary programs dealing with insect biology. Research areas include biochemistry, behavior, immunology, genetics, molecular biology, neurobiology, physiology, and systematics of insects. Stipends will be commensurate with experience. Applicants should have Ph.D.s. Send curriculum vitae and names, addresses and telephone numbers of three references to: Dr. John H. Law, Department of Entomology, University of Arizona, Biosciences West 364, Tucson, AZ 85721. The University of Arizona is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available to study: (i) DNA photolyase and the mechanism of enzyme microprotein of DNA damaged by ultraviolet light; (ii) structure/function relationships in bacterial sarcosine oxidase, a multisubunit, tetrahydrofolate-binding protein containing both covalent and noncovalent flavin. Applicants should have an interest in enzymes and/or photochemistry. Please send curriculum vitae, names, and telephone numbers of three references to: Dr. M. Jorns, Department of Biochemistry, Hahnemann University, Broad and Vine, Philadelphia, PA 19102.

POSTDOCTORAL POSITIONS in immunology available immediately. One position is for a cellular immunologist who will be generating B cell hybridomas and utilizing a variety of immunochemical techniques for the subsequent detection, purification and analysis of virus such antibodies. The second position is for a molecular immunologist who will utilize the techniques of in vitro methods and join research groups to study idioype altered antibody molecules. Send curriculum vitae to: Dr. Constantini Rona, Box 1124, Department of Microbiology, The Mount Sinai School of Medicine, One Gustave Levy Place, New York, NY 10029-6574.

Several POSTDOCTORAL POSITIONS available, now and in July 1989, in cellular and molecular immunology in the laboratories of Susan Swain and Richard Dutton. Projects include molecular and cellular analyses of the role of lymphokines and the cell biology of T cell B cell interactions in the regulation of the immune response. Experience in cell biology, biochemistry, cellular or molecular immunology required. Send curriculum vitae and names, addresses, of three references to: A. Schwartz, Department of Biology, Q-063, University of California San Diego, La Jolla, CA 92039. The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS UNIVERSITY OF PENNSYLVANIA

Positions are available in the following areas: (i) molecular biological and immunological studies of β-adrenergic, dopaminergic, and muscarinic cholinergic receptors [Drs. Barry B. Wolfe or Larry M. Bolotin]; (ii) molecular biological, biochemical and electrophysiologi- cal studies of ion channel and receptor function; biosyn- thesis and assembled ion channel and receptors [Dr. Michael C. White]; (iii) biochemistry and molecular pharmacology of G protein effector systems in ciliary epithelia [Dr. Martin B. Wax], recently renovated research facilities. Competitive salaries and benefits. Send curriculum vitae and letters of recommendation to: Postdoc- toral Search Committee, Department of Pharma- cology, University of Pennsylvania Medical School, Philadelphia, PA 19104-6084. Affirmative Action/Open Employment Employer.

POSTDOCTORAL POSITIONS: Conduct immu- nochemical and cellular immunological studies in vivo and in vitro of interactions between parasites and hosts of varying ages. Must have background in immunology and biochemistry.

Dr. Julia W. Albright
Department of Microbiology
George Washington University Medical Center
23501 30th Street
Washington, DC 20037

POSTDOCTORAL POSITIONS available immediately for Ph.D. or M.D. in immunology and molecular biology. The applicant will be involved in studies on cellular and molecular mechanism of human B cell differentiation. This area includes (i) Biochemical purification and molecular cloning of various factors, such as lymphokine regulation of lymphocyte development; (ii) Functional characterization of growth factor receptors. Salary is negotiable. The interested candidate is en- couraged to send curriculum vitae and three references to: Dr. Y. S. Choi
Director, Laboratory of Cellular Immunology
Alton Ochsner Medical Foundation
1520 Jefferson Avenue
New Orleans, LA 70121

POSTDOCTORAL POSITIONS available to work on the cellular biology of lymphokines and related heme biosynthetic enzymes and diseases: cloning, gene struc- ture, expression, site-directed mutagenesis and structure/ function analyses. Applicants should have a strong back- ground in recombinant DNA technology and/or bio- chemistry. Send curriculum vitae and two letters of reference to: Dr. R. J. Denisck, Division of Medical Research, University of California School of Medicine, San Diego, California 92109.

POSTDOCTORAL POSITIONS: Two positions are available for study of lymphocyte activation and differentiation. Investigation will focus on the role of B cell membrane Ig, lymphokines, and cognate B cell-T cell interactions in the induction of antibodies in vivo and the regulation of cellu- lar immunology experience. Send curriculum vitae and names of three references to: Dr. Fred Finkelman, o/c Civilian Personnel, Uniformed Services University of the Health Sciences, 4301 Jones Bridge Road, Be- thesda, MD 20814-4799. USUHS is an Equal Opportu- nity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH—Applications are invited from Ph.D.s with training in yeast genetics to work on a project in which the yeast systems will be used to study the molecular genetics and biochemistry of retrotranscription. The successful candidate will have the op- portunity to expand his/her training in areas of molecular genetics and retrovirology as a member of an established, interactive group in an outstanding Philadelphia institu- tion. Send curriculum vitae and a list of references to: Dr. Anna Marie Skalka, Director, Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Fox Chase Cancer Center is an Equal Opportunity Employer.

POSTDOCTORAL AND RESEARCH APPOINT- MENTS are occasionally available in the Department of Biochemistry, at Emory University School of Medicine, Atlanta, GA 30322. Appointments are normally made for 1 year, but with the possibility of renewals for a maximum of 2 more years. A description of the research interests of the faculty is available from the department upon request, and highly qualified persons are invited to apply directly to the faculty member with whom they wish to work. If no position is available with that faculty member, the application may be circulated to others in the department with similar research interests. Applica- tions should include a résumé, a brief statement of research plan and objectives, and three letters of reference. Emory University is an Equal Opportu- nity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE POSITION is available to study the molecular basis of organ preference of cancer metastasis. These studies involve the purification and characterization of hormones and other host endogenous compounds and the control of receptor expression by components of the extracellular matrix. The successful candidate will have a Ph.D. in biochemistry with a strong background in cell surface protein purification techniques. Please send cur- riculum vitae and three letters of recommendation by 30 September 1988 to: Dr. Bendict H. Pauli, Cancer Cell Biology Laboratory, Department of Pathology, Cornell University College of Veterinary Medicine, Ithaca, NY 14853-6401.
Pharmacological Sciences

Genentech, Inc., a leader in the field of biotechnology, is currently seeking the following individuals.

**Scientist**

An opportunity is available for an Enzymologist to undertake studies utilizing his/her 2-3 years' post-doctoral experience in enzyme inhibition, isolation and characterization and the development of enzyme inhibition assays. Additional requirements include a BS in Chemistry or Biology, a PhD in Biochemistry and a knowledge of receptor binding techniques/methodologies as well as second messenger studies. Knowledge of HPLC, radioreceptor and in vivo assessment of enzyme inhibition techniques is desirable. Reference position #1664.

**Senior Research Associate**

We are also seeking an individual to participate in preclinical studies of assessment of IFN-8 as a therapeutic for pulmonary infections in the immunocompromised host. These studies will characterize impairment of macrophage activation during immunosuppression and the ability of IFN-8 to overcome the suppression. Requirements include a BS/MS in Cell Biology, Microbiology, Immunology, Virology or related science and 5-8 years' experience in cell culture techniques including RNA/DNA extraction. Experience with ELISA assays and gel electrophoresis would be a plus. Reference position #2371.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume, indicating reference number on the outside of the envelope, to Eric Mankuta, Human Resources Department, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

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**EcoScience Laboratories**

**CAREER OPPORTUNITIES IN THE BIOLOGICAL CONTROL OF PESTS**

EcoScience Laboratories is committed to the development and marketing of ecologically compatible products for the biological control of plant pathogens, insect pests and weed plants.

- We have immediate openings for the following key positions:
  - **PLANT PATHOLOGIST** - PhD with several years industrial or field experience and knowledge of genetic engineering technologies.
  - **INSECT PATHOLOGIST** - PhD with several years industrial or field experience and knowledge of genetic engineering technologies.
  - **FERMENTATION BIOCHEMIST** - MS or PhD with industrial experience in developing pilot scale processes.

Reference Associates (BS/MS) who are interested in a level of responsibility and challenge beyond the normal are also encouraged to apply.

- We are located in beautiful central Massachusetts within a five college community. We offer a competitive salary and benefits package.

Interested parties should send their resumes to:

Dr. David W. Miller  
**Director of Research and Development**  
EcoScience Laboratories, Inc.  
PO Box 300, Amherst, MA 01004

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**Find Fast-Paced Opportunity As An Abbott Regulatory Affairs Professional.**

A $4.4 billion worldwide leader in the health care and related products field, Abbott Laboratories continues to put a heavy emphasis on new product development. Now we're looking for individuals with the ability to manage the fast-pace of new product introductions in our Chemical & Agricultural Products Division. With this challenge, you'll find a career opportunity with a company recognized for exceptional growth and top-quality management.

**Regulatory Affairs Managers**

**Domestic and International**

One of the candidates we seek will focus on domestic (U.S. and Canada) agricultural regulatory affairs, and the second on international regulatory affairs. A minimum of 7 years experience in Agricultural Product Development and product registration and/or regulatory affairs experience is required. A PhD in Chemistry, Biochemistry, Toxicology, Entomology or Agronomy is desired. The international position requires a minimum of 5 years international experience. Travel will be required for both positions.

Abbott Laboratories offers an outstanding career environment with strong growth potential, plus an excellent compensation package that includes profit sharing and retirement programs. For consideration, please send resume with salary history, indicating job preference, to: Keith Allen, Dept. RA, Corporate Placement, Abbott Laboratories, Abbott Park, IL 60064. Abbott is an affirmative action employer.

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**Abbott Laboratories**

100 Quality Health Care Worldwide  
1888-1988
POSTDOCTORAL RESEARCH ASSOCIATE

A 2-year position is available immediately for a Ph.D. immunologist (Dr. A. Lucas) on projects involving the ontogeny and expression of human cross-reactive idiotypes, the regulation of anti-poly saccharide immunity and idiotype vaccines. Send complete curriculum vitae and the names and addresses of three references to: Children's Hospital Oakland, Research Institute, Human Resources Department 2037, 747 52nd Street, Oakland, CA 94609. Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study the biochemical mechanisms of hormone action in membranes and the cellular mechanisms of urinary acidification. Preference given to Ph.D. in the area with expertise in one or more of the following areas: enzymology, receptor assays, flow cytometry, lipid chemistry. Salary negotiable depending upon expertise; excellent benefits. Send curriculum vitae and the names and addresses of three references to: Sandra Sabatini, Department of Internal Medicine, Texas Tech University HSC, Lubbock, TX 79430. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

In CELLULAR IMMUNOLOGY: to study the role of lymphokines in mucosal immunity, including analyses of lymphokines produced by T cells from small intestine and lymphoid organs (Peyer's patches, mesenteric lymph nodes, and spleen). Background in basic cellular immunology would be desirable but is not required. Salary $20,000 to $23,000 depending upon qualifications. Send curriculum vitae and names of three references to: Susan L. Tonkonogy, College of Veterinary Medicine, Department of Microbiology, Pathology, and Parasitology, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.

POSTDOCTORAL RESEARCH FELLOW

Postdoctoral training position in molecular pharmacology on regulation of Na-K ATPase gene expression in developing myocardium and relationship to cardiac function. Interested persons should send curriculum vitae and the names of three references to: Dr. Michael R. Rosen Department of Pharmacology College of Physicians and Surgeons Columbia University 630 West 168th Street New York, NY 10032

Columbia University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITIONS

Opening available for two post-doctoral associates in the Department of Pharmacology to study aspects of drug resistance in human cancers. Areas of interest include regulation of glutathione S-transferase, isozyme expression and enzyme characterization in patients before and after drug therapy; studies on microtubule associated proteins (MAP's) and human tumors and in cells with acquired resistance to etoposide. Send curriculum vitae and three references to: Dr. Kenneth D. Tew, Chairman, Pharmacology Department, c/o Personnel Department, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

POSTDOCTORAL STUDY IN RADIATION BIOEFFETS—The Center for Basic Research in Radiation Bioeffects has an immediate opening in a project examining the interaction between ionizing and nonionizing (microwave) radiation. Experience in cytogenetics and tissue culture is preferred, but individuals trained in nucleic acid molecular biology or NMR techniques will be considered. The position is for a minimum of 1 year, with the possibility of advancement into a staff position in radiobiology. Send résumé and names and telephone numbers of three references to: Dr. Martin L. Melia, Ph.D., CBRR, B. W. Stewart Radiological Research and Education Center, Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284. Telephone: 512-567-5550. UT-SCSA is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

The Department of Chemistry, Yale University, invites applications for a tenure-track position at the level of PROFESSOR in the area of synthetic or bioorganic chemistry. An outstanding, established teacher-scholar is sought to teach introductory and advanced courses in general chemistry, and the current staff. The position is to be occupied in the academic year 1989 to 1990. Applicants should submit curriculum vitae, and a list of publications to: Peter B. Moore, Chair, Senior Search Committee, Department of Chemistry, Yale University, 225 Prospect Street, P.O. Box 6666, New Haven, CT 06511. December 1, 1988. Yale University is an Equal Opportunity/Affirmative Action Employer.

PROFESSOR AND HEAD, Department of Soil Science, University of Minnesota. Qualifications: Ph.D. in soil science or related field; 8 years of professional experience. Send letter of application, 1-page summary of career goals, curriculum vitae, and names of three referees by 30 September 1988 to: George Foster, 213 Agricultural Engineering, University of Minnesota, St. Paul, MN 55105. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

PROFESSOR OF NEUROSCIENCE

Massachusetts General Hospital and Harvard Medical School are seeking to recruit a Senior Neuroscientist to direct the Neuroscience Unit of the Howard Hughes Medical Institute Laboratory at Massachusetts General Hospital. The successful candidate will be appointed as Professor of Neuroscience at Harvard Medical School. The candidate will be expected to direct a human laboratory and to train graduate students and postdoctoral fellows. The search committee invites applications from outstanding candidates. Women and minority candidates are encouraged to apply. Applicants should submit curriculum vitae and a statement of research interests to: Professor Richard L. Wurtman, M.D., Ph.D., Department of Neurology, Massachusetts General Hospital, 32 Fruit Street, Boston, MA 02114. Harvard Medical School/Massachusetts General Hospital are Affirmative Action/Equal Opportunity Employers.

PROTEIN CHEMIST

The Department of Biological Sciences at Stanford University is seeking a person with a Ph.D. or equivalent experience in protein chemistry to establish and operate a molecular biology service laboratory with primary responsibility for peptide sequencing and synthesis and a secondary role in DNA sequencing and sequencing. The person will be responsible for operation of the facility, supervision of technical assistants, periodic updating of equipment and techniques, and for providing instruction to faculty and students. Applicants should provide curriculum vitae and the names of three referees to: Professor Richard W. Stroud, Department of Biological Sciences, Stanford University, Stanford, CA 94305–5020. Stanford University is an Equal Opportunity Employer and encourages applications from minorities and women.

RESEARCH PH.D.

Immediate opening for Ph.D. with interest in basic and clinical research work in cardiac physiology, electrophysiology/biochemistry. The successful candidate should have interest and experience in cardiovascular animal research. Experience in handling various biochemical techniques including HPLC, RIA, radiation and electrophysiology desirable. This challenging position offers opportunity for growth in clinical as well as basic cardiovascular research. Winthrop-University Hospital is a 533-bed teaching affiliate of SUNY, Stony Brook School of Medicine, offering competitive salary, comprehensive benefits package and a professional working environment. For immediate consideration, submit cover letter and resume to the Institution for Research and Education, Electrophysiology, invasive cardiac and cardiac surgical facilities. Send résumé or contact: Steven Zeldis, M.D., or Kui D. Chadda, M.D. Winthrop-University Hospital 289 First Street Mineola, Long Island, NY 11501 or call: Dr. The Human Resources Department, Telephone: 516-567-4811. Equal Opportunity Employer M/F/H.

RESEARCH ASSISTANT/ASSOCIATE

The Laser and Applied Technology Laboratory, Charlotte Memorial Hospital and Medical Center, invites applications for a full-time research associate position. The position will involve research in cardiovascular applications of lasers. Individuals applying should have previous experience in small animal cardiac surgery, cardiac catheterization, cardiopulmonary bypass perfusion of canines, and the use of lasers. A 2- or 4-year degree in a related field is also required. Salary range $24,000 to $34,000. Interested candidates should submit curriculum vitae and letters of recommendation by 15 September 1988 to: Dr. George Tantis, Laboratory Research Manager, P.O. Box 32861 Charlotte, NC 28222 Equal Opportunity Employer.

ASSOCIATE IN RESEARCH DEPARTMENT OF SURGERY

Division of Thoracic Surgery at the Brigham and Women’s Hospital has an opening for a research associate to study electrophysiology of gastrointestinal smooth muscle. Applicant should be familiar with in-vivo experimentation and chronic animal preparations and basic electrophysiological techniques. Experience with techniques of blood flow measurements are a plus. Candidates should have a Ph.D. in a related field and capacity for interdisciplinary research and growth. Please send resume, letter of interest and names of references to: David J. Sugarbaker, M.D., Chief, Department of Thoracic Surgery, Brigham and Women’s Hospital, 75 Francis Street, Boston, MA 02115.

RESEARCH BIOLOGIST/POSTDOCTORAL FELLOW to participate in the study of mechanisms of chemical carcinogenesis. Successful candidate must possess a Ph.D. in biology and must have experience in light, scanning and transmission electron microscopy techniques, immunohistochemistry and cytochemistry, and cell and organ culture, and measurement of morphometric parameters. Duties include establishment and characterization of normal and animal epithelial cell cultures; in vitro study of transformations of these cultures; elucidation of mechanisms of chemical carcinogenesis; study of the regulation of growth and differentiation of normal and transformed cells; writing research proposals and reports; experimental design; and supervision and training of junior students. Salary $26,400 per year for 40-hour week. Qualified applicants should send: Mr. George Johns, Alabama State Employment Service, 1816 8th Avenue, North, P.O. Box 12046, Birmingham, AL 35204–1206, 205-834-1181. Job Order #: A10542755. Affirmative Action/Equal Opportunity Employer.

SENSORY NEUROPHYSIOLOGIST: Tenure-track possibility for position available at assistant professor level. Serious commitment to collaborative work within the Microsurgical Research Center. Experience required to characterize electrophysiologically the properties of central axons which have arrived by afferent axons along peripheral nerve implants. Preference given to applicants experienced in spinal cord neurophysiology and tract- and thalamic and cerebellar sensory functions. Send curriculum vitae with three letters of recommendation to: Dr. Julia K. Terzis, Microsurgical Research Center, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501.
NOVA PHARMACEUTICAL CORPORATION, a leading Research and Development company in Baltimore, MD, is building a multi-disciplinary team to work on the discovery and development of novel compounds for the treatment of inflammation. The inflammation team has an immediate need for an innovative scientist to contribute expertise especially in the area of in vivo models of inflammation. Qualified candidates will possess a PhD in Pharmacology, Immunology, Physiology or related science plus a minimum of 2 years post doctoral experience in inflammation research.

NOVA PHARMACEUTICAL CORPORATION offers a competitive compensation and benefits package which includes relocation. Interested individuals who seek a challenging work environment please send their CV to: L. Faris – IBLS, Nova Pharmaceutical Corp., 6200 Freeport Centre, Baltimore, MD 21224-2788. EOE.

Readership in Bacteriology

The electors intend to proceed to an election to the Readership in Bacteriology in the Sir William Dunn School of Pathology with effect from 1 October 1989 or such later date as may be arranged. The stipend of the reader is on the scale £20,270 – £22,910.

Applications (ten copies, or one from overseas candidates), naming three referees, should be received no later than 19 September 1988 by the Registrar, University Offices, Wellington Square, Oxford, OX1 2JD, from whom further particulars may be obtained. The University is an equal opportunity employer.

Postdoctoral Fellow Molecular Genetics

The Squibb Institute for Medical Research is recognized internationally as a leader in the research and development of novel pharmaceuticals. We have recently established a Molecular Biology Department to study the molecular basis of human cancer. We are offering a postdoctoral fellowship position to study oncogenes and the control of cellular growth and differentiation.

You will conduct research in a laboratory dedicated to the use of model fungal systems to study mammalian oncogenes through their heterologous expression in yeast as well as fungal analogues of mammalian oncogenes. You will also have multiple opportunities for the application of yeast molecular genetics to problems in metazoan cells. Collaboration with scientists at neighboring academic institutions will be encouraged.

This position is based in Princeton, New Jersey, a pleasant semi-rural community located mid-way between New York City and Philadelphia. For consideration, please submit curriculum vitae to: The Squibb Institute for Medical Research, Human Resources Department 18, P.O. Box 4000, Princeton, New Jersey 08543-4000. An equal opportunity employer.
**POSITIONS OPEN**

**REPLICA OPPORTUNITIES**

Repligen Sandoz Research Corporation, a joint venture between Sandoz Ltd., a multi-national company based in Basel, Switzerland, Sandoz Chemical Corporation, its U.S. based division and Repligen Corporation, a biotechnology company located in Cambridge, Massachusetts needs biochemists (Bachelor's, Master's degrees) with experimentation and enzyme kinetics. We are an exciting new company with fantastic opportunities. Our objective is to develop enzymes for the chemical field (mainly paper, textiles and waste water treatment). Excellent benefits and comprehensive program. Very competitive salary.

Please send inquiries and curriculum vitae to: Dr. Chitra Mishra, Repligen Sandoz Research Corporation, 128 Spring Street, Lexington, MA 02173.

An Equal Opportunity Employer.

**SENIOR RESEARCH ASSOCIATE**

For studies of human heritable disorders of connective tissue (HDCT). Required: Ph.D. in biochemistry with at least 10 years of postdoctoral work including three or more years of postdoctoral experience in collagen. Publications as primary author of at least twenty research papers in peer reviewed journals; demonstrated ability to secure research funding as principal investigator; experience in mammalian tissue culture, HPLC, molecular biology and 2D electrophoretic techniques. Teaching and supervision of biochemistry students will be an integral part of the responsibilities. Salary: $23,484 to $38,436, commensurate with experience. Send curriculum vitae, three references and current salary to:

Dawson O. Ralston, M.D.
Department of Biochemistry
Oregon Health Sciences University
3181 SW Park Road
Portland, OR 97201

OHSU is an Affirmative Action/Equal Opportunity Employer.

The School of Chemical Sciences at the University of Illinois at Urbana-Champaign has openings for two SPECTROSCOPISTS in its mass spectrometry laboratory. Requirements for the first position include a Ph.D. or the equivalent in chemistry or related field, experience with double-focusing mass spectrometers and modern ionization techniques such as CI, FI, FD, and FAB, and in the interpretation of such mass spectra. Experience in the maintenance of mass spectrometers and associated equipment is also highly desirable. Duties, under minimal supervision of the Laboratory Director, will include the operation and maintenance of several double-focusing mass spectrometers, the training of instrument operators, and working with students and faculty using the facility. Requirements for the second position include a minimum of an M.S. in chemistry, physics, electrical engineering, or related field, and experience with state-of-the-art double focusing mass spectrometers, including a VG Instruments ZAB-SE, and a familiarity with modern mass spectrometry using ionization techniques such as EI, CI, FI, FD, and FAB. Experience in the maintenance of mass spectrometers and associated equipment is also desirable. Primary duties, under the minimal supervision of the Laboratory Director, will include the operation and routine maintenance of a VG Instruments ZAB-SE mass spectrometer, providing a variety of routine and non-routine mass spectrometric services such as low and high resolution FABMS and combined HPLC/FABMS. Both positions are regular, full-time positions. The starting dates are 1 January 1988 but other starting dates can be negotiated. Starting salaries will be commensurate with experience. To apply for either position submit a resume and three letters of recommendation, preferably by 1 September 1988 to:

Dr. Richard Milberg
School of Chemical Sciences
Box 81
University of Illinois
100 South Laboratory
Urbana, IL 61801
Telephone: 217-333-2545

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

**POSITIONS OPEN**

**RESEARCH MANAGER IN WETLANDS ECOLOGY**

A full-time research administration position is available in the Division of Wetlands Ecology at the Savannah River Ecology Laboratory (SREL) of the University of Georgia in Aiken, South Carolina. The Research Manager reports to the Head of the Division of Wetlands Ecology and is responsible for the daily management of a large multidisciplinary wetlands research program, including budget and personnel administration and report preparation. The Division Head and Research Manager design and manage SREL wetlands research to achieve program goals. Frequent interaction with SREL research faculty and staff is expected. Both federal, and state personnel is required. Knowledge of federal and state environmental regulations pertaining to wetlands and wildlife, project and personnel management, and contract supervision are essential. Supervisory and communication skills will be weighed heavily in evaluating applicants. Candidates must be U.S. citizens and have Ph.D. degrees and training in ecology or environmental science. Salary is commensurate with qualifications and experience. Applicants should send their résumés, reprints, and the names, addresses, and telephone numbers of four references by 30 September 1988 to: Dr. Rebecca R. Sharratt, Head, Division of Wetlands Ecology, Savannah River Ecology Laboratory, Drawer E, Aiken, SC 29802.

Equal Opportunity Employer

Washington State University (WSU) seeks applicants for a postdoctoral technician position. These are tenure-track positions at the assistant professor level. Duties will include teaching, research and consulting. Teaching will include courses in applied statistics for graduate and undergraduate students primarily in the biological and social sciences area. Providing statistical consulting for research and extension personnel primarily in the College of Agriculture and Home Economics is expected. Independent and/or collaborative research can be in the area of choice. Complete descriptions of the positions and application procedures can be obtained from: Dr. J. K. Hillers, Program in Statistics, WSU, Pullman, WA 99164-6212. Telephone: 509-335-4022. Preference will be given to applications received by 1 October 1988. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

**CURSE**

**MORPHOMETRY AND STEREOLOGY IMAGE PROCESSING LABORATORY COMPUTING**

A series of related practical short courses. Woods Hole, December 1988


**TRAINESHIP**

Applications sought for 3-year-NIH-funded TRAINESHIP to begin 1 July 1989, in multidisciplinary research/education on dental caries, leading to M.S. or Ph.D. Applicants must be U.S. citizens and hold dental, M.D. or Ph.D. degrees. Stipend range $15,996 to $30,000, depending on experience. Equal Opportunity Employer, Affirmative Action. Contact: Dr. L. Messer, 18124 Moon Tower, University of Minnesota School of Dentistry, Minneapolis, MN 55455.

**FELLOWSHIPS**

**ALZHEIMER DISEASE—NEURODEGENERATIVE DISORDERS—POSTDOCTORAL FELLOWSHIP** Positions (two), University of Rochester, state funding allows for starting 1 August 1989. M.D.'s or Ph.D.'s in relevant disciplines including cell biology or molecular biology. Send curriculum vitae to: Robert W. Hamill, M.D., Neurology Department, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642.

**VETERINARY PATHOLOGISTS**

The Department of Veterinary Microbiology and Pathology, Washington State University, seeks two veterinary pathologists for full-time tenure-track appointments. Both positions offer 50% time for research, and the successful candidates will be expected to develop externally supported research programs in areas compatible with existing departmental programs in infectious diseases, host-parasite interactions, and other human disease. One position carries a 50% classroom teaching commitment. The other has a 50% pathology service appointment to the Washington Animal Disease Diagnostic Laboratory. D.V.M. and Ph.D. degrees are required. ACVP certification is desired, and intention to pursue ACVP certification is required. Rank and salary commensurate with training and experience. Applicants should submit curriculum vitae and names and addresses of three references to: Dr. L. Perryman, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164—7040, by 15 November 1988.

WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply. WSU employs only citizens and lawfully authorized non United States citizens. All new employees must show employment eligibility certification as required by the United States Immigration and Naturalization Service.

**FELLOWSHIPS**

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SCIENCE, VOL. 241
The first “Advanced Course in Basic Neurosciences” will cover the following topics:

The course will open on April 2 with a plenary lecture by G.M. Edelman, Vincent Astor Professor, the Rockefeller University, New York, NY, U.S.A.

On April 16, a symposium on “Bridges Between Basic and Clinical Neurosciences” will conclude the course.

Enrollment is limited to 30 students selected on the basis of their scientific merit.

Application deadline: November 1, 1988.

Additional information about applications and travel grants can be obtained from L. Linzi - P.O.B. 818 - 35100 Padova-Italy

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