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ALGAL BIOLOGIST

Microbio Resources, Inc., a company dedicated to the development of chemical products from algae, is in need of an algal biologist to manage the production algal cultures at its facility in the Imperial Valley of southern California. Responsibilities include day-to-day maintenance of cultures, interaction with production personnel, experimentation to optimize production, and coordination of outdoor experimentation with new species and products in the development phase. Background requirements are a Ph.D., M.S., or B.S. in biology (physiology, ecology, etc.) or a related area such as microbiology, mycology, or limnology with experience in algal growth. Salary will vary with background and experience starting at $35,000 per annum. If you are interested in becoming part of this promising area of biotechnology, send a resume with salary requirements to:

Thomas Naylor, Director of Operations
Microbio Resources, Inc.,
250 West Schrimp Road
Calipass, CA 92233
Telephone: 619-348-5244
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ANATOMIST

Anatomy department is seeking an anatomist whose primary responsibilities include gross anatomy. Additional responsibilities will include teaching courses in histology and/or embryology. A Ph.D. or equivalent background is preferred. Qualified applicants should submit a resume to:

Dr. Jean Schrimpf
Department of Anatomy
School of Sciences, Cleve-
land Chiropractic College,
6401 Rockhill Road,
Kansas City, MO 64131.

Immediate opening for broad-based AQUATIC ECOLOGIST with strong background in water quality assessment. The successful candidate will have excellent written and oral communications skills, a strong background in statistical analysis, and microcomputer experience. A knowledge of fisheries and aquatic invertebrate taxonomy and field techniques is required. Experience with NEPA, wetland management is desirable. M.S. and 5 years of Ph.D. and 2 years of experience required. Send letter, resume, and supporting materials to:

Dr. Virgil Bierz, Jr., WAPORA, Inc.,
5700 Hillside Avenue, Cincinnati, OH 45232.

AQUATIC ECOLOGIST/FISHERIES BIOLOGIST

Envirosphere Company, the environmental consulting division of ERA Technologies Inc., located in Lyndhurst, New Jersey, is seeking a senior level AQUATIC ECOLOGIST/FISHERIES BIOLOGIST with a minimum of 5 years experience and/or freshwater systems, population and ecological assessments and im-
port report (EIS) preparation, IFIM/HEP training and supervision experience desirable. Advanced degree preferred. ERA Technologies Inc. offers competitive benefits as well as competitive salaries and a comprehensive benefits package. Please send resume, and salary history/require-
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rment of Physiology. Although we prefer a molecular biologist with experience in gene regulation, consider-
ation will also be given to cell biologist wishing to work with recombinant technology. The individual would collaborate with other researchers on the cell biology, molecular biology, development, and mechanistic aspects of gland lineage in the adult and neonatal infant, and would be strongly encouraged to develop an indepen-
dent program in the cell/molecular biology of lung cancer. Experience in animal models, the ability to work with the possibility of part-time technical assistance. Some postdoctoral train-
ing would be desirable, but recent Ph.D.’s with good training and potential for independent work are encouraged to apply. Please send curriculum vitae and list of references to:

Richard J. King, Ph.D., Professor, Department of Physiology, University of Texas Health Science Cen-
ter, 7703 Floyd Curl Drive, San Antonio, TX 78284-
7756; Telephone: 512-567-4342. The University of Texas Health Science Center is an Affirmative Action/Equal Opportunity Employer.

Haverford College, 2-year position as ASSISTANT PROFESSOR to teach molecular and biochemical biol-
ogy, immunomodulation, electron microscopy, and direct student research. Contact: A. G. Loewer, Haver-

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sin-Madison invites applicants for a tenure-
track position at the assistant professor level in the area of pharmaceutics. Candidates should be capable of developing an independent, aggressive, and fundamental pro-
gram of research on some aspect of physical chemis-
ty of biomolecules (preferably macromolecules). The primary interest should be in generating new knowledge at the molecular level, though the research should have potential application to drugs. Candidates should hold the Ph.D. in physical, analytical, or biological chemistry or in pharmacology. Some relevant postdoctoral research experience. Teaching responsibilities will include undergraduate and graduate courses. Please send curriculum vitae with a description of research interests and names of three references by 1 April 1989 to:

Dr. Kenneth A. Connors, School of Pharmacy,
University of Wisconsin, Madison, WI 53706; telephone: 608-
256-2990.

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ASSISTANT PROFESSOR

Applications are invited for a tenure-track position to begin mid-September 1989. Duties include teaching medical and graduate students and conducting an independent research program. All areas of research will be consid-
ered, but preference will be given to individuals with research interests in neuro or cardiovascular physiology. Qualifications include post-doctoral research experience and a record of excellence in productivity in scholarly work. Send resume and three references to:

Dr. James J. McGrath
Professor
Department of Physiology
Texas Tech University Health Sciences Center
Lubbock, TX 79430

Deadline for application is December 1, 1989.

ASSISTANT PROFESSOR

Environmental scientist/landscape ecologist, 12-month, assistant professor, tenure-track position at the assistant professor level to teach two courses in Environmental Studies Program and build research program in Kansas Biological Survey. Suitable research specialties include: land/water interface; remote sensing/geographic information systems; wetland ecosystem analysis; water pollution assessment; or related area. Salary: $38,000 to $40,000. Ph.D. required. Postdoctoral research and teaching experience preferred. Start 1 July 1989. Send application letter, curriculum vitae, copies of publications, statement of research goals and three letters of recommendation to: Dr. Leonard C. Ferrington, Jr., Kansas Biological Survey, 2291 Ir-
ing Hill Drive, Lawrence, KS 66045. Application must be postmarked by 1 March 1989. Equal Opportu-
nity/Affirmative Action Employer.

ASSISTANT PROFESSOR—CELL BIOLOGIST

Research interests in cell and molecular structure and function; areas include, but are not limited to, morphology, cell-cell interactions, receptor/ion receptor sig-
aling. Tenure-track, to begin, August 1989. Candidates must have a Ph.D., 2 years of postdoctoral training, teaching experience desirable, and proven ability as an independent researcher. Teaching cell biology to under-
graduates, participation in allied staff courses, and gradu-
ate program is expected. Start-up funds available. Cam-
pus facilities include hybrid houses, X-ray crystallography, and EM center. Curriculum vitae and names of three references are to accompany application. Position remains open until filled. Screening begins 1 March 1989. Dr. Charles J. Amlander, Jr., Chair, Department of Zoology, SCEN 632, University of Arkansas, Fayetteville, AR 72701.

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Plant Physiologist, Ph.D. Biochemist—published work on the isolation and action of plant hormones and plant lectins. Some experience in molecular biology, gene cloning, immunoassay—seeks research fellowship. Box 21, SCIENCE.
ASSISTANT PROFESSOR. We announce the availability of a non-tenure-track, 12-month, faculty position to fill an opening as of 1 May 1989. The position will include a cross-appointment in the Department of Medical Biochemistry and the Department of Chemistry and Biochemistry. Applicants will develop a portion of an active research program, complementary with existing programs in biophysics and/or molecular biolo- gy. The position will involve directing muscle contraction, or (ii) protein and DNA structure and interactions. Facilities include both wide-bore 300-MHz and narrow-bore 500-MHz NMR instruments. Tenured faculty members are eligible for the full spring semesters at the undergraduate and/or graduate level. Minimum qualifications are a Ph.D. degree and postdoctoral research experience. Salary is competitive, and will be set up with a 75% fiscal-year assignment allowing further increases with external funding. The official title for this position is visiting assistant professor. It is renewable up to 4 years. Interested candidates should send curriculum vitae, an outline of interests, and three letters of reference, preferably before 1 May 1989, to: Dr. John Shiver, Department of Medical Biochemistry, School of Medicine, Southern Illinois University, Carbondale, IL 62901. Telephone: 618-453-5721. Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF BIOLOGY—The Department of Biology, Hofstra University, is seeking a comparative physiologist for a tenure-track assistant professor position. The appointee will teach undergraduate animal physiology and, possibly, cell biology and will be expected to develop an active research program. The exact area of research is open but the Department is particularly interested in comparative physiology and neurophysiology. Teaching and postdoctoral research experience are desirable. Curriculum vitae, selected papers, and at least three letters of reference should be submitted to: Dr. Carleton J. Phillips, Chairman, Department of Biology, Hofstra University, Hempstead, NY 11550. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BOTANY/BIOLOGY. Ph.D. required—teaching experience preferred. The position, tenure-track, includes teaching courses in the areas of plant biology (botany, plant anatomy, eco-physiology), biochemistry, as well as involvement in the introductory biology courses. Please send curriculum vitae and three letters of recommendation before 3 March 1989 to: Dr. Edmund Y. Tong, Chair Department of Biology Whetton College Berea, M.D. University of North Carolina, Chapel Hill, NC 27514. Whetton College is an Affirmative Action/ Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR—MICROBIOLOGY The St. Louis College of Pharmacy invites applications for a full-time (9-month) tenure-track position in microbiology starting fall 1989. Applicants should possess a Ph.D. with postdoctoral experience in medical microbiology. Responsibilities include teaching a survey course for nursing students and a two-semester sequence for pharmacy students. Send curriculum vitae, transcripts, and names, addresses, and telephone numbers of three references by 1 March 1989 to: Dr. R. J. Cooper, Director, Division of Biological Sciences, St. Louis University, 8050 Natural Science Building, St. Louis, MO 63110. An Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR MEDICAL COLLEGE OF OHIO The Department of Surgery, Medical College of Ohio is searching for a G.I. (preferably hepatic) physiologist. Teaching duties include animal diversity, ecology, human anatomy/physiology and electives in specialty. Research emphasis will be on studies in cell biology and immunology. Applicants should have a Ph.D. in physiology, immunology or cell biology, and should have experience in independent research. Send curriculum vitae, current publications and names and addresses of three references to: Dr. Thomas E. Bennett, Chairman, Department of Surgery, P.O. Box 10008, Toledo, OH 43699-0008. The Medical College of Ohio is an Equal Opportunity Employer.

BIOLOGIST. Tenure-track position, August 1989. Ph.D. required, emphasis in structural and functional aspects of animals (including human). Teaching duties include animal diversity, ecology, human anatomy/ physiology and electives in specialty. Excellent opportunity to teach in two of the following areas: botany, developmental biology, cell and molecular biology, immunology. It is possible that the position will include two half-time appointments. Equal Opportunity Employer. Applications from women and minorities are encouraged.

Assistants and professors in cell physiology and evolutionary biology The Department of Zoology, University of Tennessee, Knoxville, invites applications for tenure-track positions. The present professor with Ph.D. in physiology, evolution, and animal behavior. Applicants must be in the fields of cell physiology and evolutionary biology. Applicants must have a Ph.D. in physiology, evolution, or ecology and a record of teaching and research in these areas. Applications should be sent to: Dr. John Shiver, Department of Medical Biochemistry, School of Medicine, Southern Illinois University, Carbondale, IL 62901. Telephone: 618-453-5721. Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

Washington State University invites applications and nominations for the position of CAMPUS DEAN, Washington State University at Tri-Cities. The institution, currently Tri-Cities University Center, will become a campus of WSU on 1 July 1989. The Campus Dean is the senior administrative officer for the campus and reports directly to the Provost of Washington State University, Pullman. Duties include personnel management, budget, program planning and evaluation, creating and maintaining effective relationships with civic, legislative and industry audiences including an advisory committee; providing general leadership to the campus and managerial skill in administering the work of WSU Tri-Cities academic and administrative staff. Applicants must have an earned doctorate, a documented record of scholarship and research accomplishments consistent with an appointment at the senior level; successful administrative experience in higher education at the level of dean, department chair or program director; commitment to high academic quality; and a belief in shared governance. Salary and rank will be commensurate with experience and qualifications.

For more information, to nominate others, or to make application, call or send letter of application, curriculum vitae, and a list of five references to:
Dr. Rom J. Markin, Dean
College of Business and Economics
Washington State University
Pullman, WA 99164-4720
Telephone: 509-335-3596

Applications and nominations will be received until 1 March 1989 or until the position is filled. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Protected group members are encouraged to apply.

CANCER RESEARCH SCIENTIST—Ph.D. plus 8 to 10 years of experience in the area of chemotherapy research. Candidate must possess experience in the development of anti-idotype vaccines with potential applications in cancer and other areas of human health. Background and experience shown must be evidenced by publications and record of independent funding. Salary: $40,000. Reply to: Box 19, SCIENCE. Equal Opportunity Employer/Affirmative Action.

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The Department of Physiology invites applications for tenure-track faculty positions at the level of ASSISTANT PROFESSOR.

Outstanding candidates working in any area of contemporary physiology will be considered, but those in smooth muscle, reproduction and development, endocrinology, sensory transduction, and the cardiovascular system are encouraged to apply. Successful candidates are expected to have a Ph.D. or M.D. with postdoctoral experience, to provide evidence that they can pursue a vigorous, independent research program and to participate in our teaching program.

Resources and an excellent environment exist for developing an academic career within an interactive community. Interested scientists should send their curriculum vitae, a statement of present and future research interest, and names of three references to: Ernest M. Wright, D.Sc., Professor and Chairman, Department of Physiology, UCLA School of Medicine, Los Angeles, CA 90024—1751.

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We are seeking a scientist with expertise in structural protein chemistry to undertake projects involving the characterization of mammalian and bacterially expressed proteins. Candidates must possess a Ph.D. in a chemical or biochemical discipline and appropriate training and experience in structural protein chemistry (e.g., protein sequencing, amino acid composition analysis, peptide mapping, protein modification, etc.). Candidates with additional experience in protein structure-function relationships, structural biology, physical biochemistry, biomolecular mass spectrometry or computer analysis of protein structures are especially encouraged to apply. The successful candidate will be expected to assume responsibility for the planning and execution of scientific projects involving blood cell differentiation factors and thrombolytic agents. Since this position involves substantial interaction with scientists from other disciplines (e.g., carbohydrate chemistry, biomolecular mass spectrometry, protein purification), applicants must have excellent interpersonal skills as well as excellent oral and written communication skills.

Located in Andover, Massachusetts, the Structural Protein Chemistry laboratory is fully equipped for the structural characterization of proteins and includes a state-of-the-art high mass, four-sector mass spectrometer.

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An opportunity exists for a motivated individual to join our Hematopoiesis laboratory. The ideal candidate will be responsible for several research projects including screening cell lines for growth factors. Candidates should possess a Bachelor's or Master's degree in Biology or Biochemistry and several years' experience in Biochemistry. Tissue culture experience will be considered a plus.

**Technical Services Manager**

This position is responsible for managing the centralized technical services which provide technical support to our research and development laboratories in our two locations, Cambridge and Andover, Massachusetts. Areas of responsibility include managing the operation of glassware washing, media preparation and the animal facility, monitoring all equipment and building alarm systems, directing the use of the pure water systems, overseeing the administration of biological sample requests, supervising contract services related to laboratory support functions, and implementing new support services to meet the changing needs of the company. This position will have budgetary responsibility and should be familiar with GLPs and cGMPs, and OPPR, USDA, and IACUC policies, practices and regulations. Strong computer skills are a plus.

This position reports to the Director of Facilities and Technical Services. Qualifications include a Bachelor's in a science related field, a minimum of 5 years' laboratory and technical services experience, and demonstrated management skills working in a fast-paced, changing environment.

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The Laboratory of Immunoregulation of the National Institute of Allergy and Infectious Diseases is seeking applicants for one position in the outpatient AIDS Research Clinic. To be eligible, a physician must be a United States Citizen and have completed three years of residency in internal medicine. Subspecialty training in infectious diseases, immunology or hematology/oncology is also desirable.

The AIDS Research Clinic is organized to design and implement studies on all aspects of AIDS with emphasis on protocols exploring novel antiretroviral, immunomodulatory and anti-infecive therapies. The clinic is staffed by 7 clinical nurses and supported by full-time social work, mental health, clinical pharmacology, and research study nurse personnel. Extensive laboratory services in retroviral and immunology and computerized data entry and retrieval systems are integral parts of this state-of-the-art clinic facility.

The Laboratory of Immunoregulation is seeking a junior staff physician to participate in protocol design, daily clinical care, and data analysis. Excellent opportunities are available to learn clinical investigations, to perform clinical trials, and to contribute to progress in the therapy of AIDS. The successful applicant will hold a civil service position with an annual salary that will be determined by credentials ($32,000/$50,000 + Physicians Comparability Allowance if applicable). The position is available July 1989.

For further information please contact (301-496-7196) or send Curriculum Vitae to:

H. Clifford Lane, M.D.
Deputy Clinical Director
National Institute of Allergy and Infectious Diseases
National Institutes of Health
Bldg. 10, Rm. 11B-09

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Molecular Biologists (PhD/MS/BS)
The Molecular and Cellular Biology Group has positions available for Molecular Biologist/Biochemists at both the PhD and MS/BS levels.

BS/MS candidates should have extensive laboratory experience and a working knowledge of molecular biology techniques. Experience with expression systems, protein purification techniques, cDNA cloning is desirable. These positions would also include work with transgenic animals. This is an excellent opportunity for scientific growth and development with the opportunity for considerable independence. Refer to position ADI #1.

PhD candidates should have completed two or more years of postdoctoral training. These individuals will be expected to initiate and direct a basic research program aimed at understanding the role of growth factors and their receptors in the regulation of animal growth in vivo. In addition, a close collaborative arrangement exists with the Molecular Biology Department at Princeton University and it is expected that individuals in these positions would pursue this relationship and establish joint research projects with relevant Princeton University faculty members. Refer to position ADI #2.

Postdoctoral Biochemist
The Biochemistry & Physiology Group, Animal Industry Discovery and Biotechnology Department has a postdoctoral position for a Biochemist. This individual will join a newly formed Immunology Team concerned with identifying and establishing immunological approaches to modulating growth and body composition. The applicant should have a strong background in protein chemistry, immunology and cell biology. He or she will employ monoclonal antibodies and other immunological techniques to investigate the interactions and regulation of hormones and their receptors. Collaboration with other molecular and cellular biologists, both in-house and outside the company, will be encouraged. We provide an opportunity to explore basic research problems in an exciting, goal-oriented and academic-like environment. Appointment is initially for one year and renewable thereafter. Refer to position ADI #3.

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A national search is being conducted to identify a suitable candidate to chair the newly created Department of Atherosclerosis. This position represents an opportunity to develop a research program and lead a group of established investigators in the broad field of atherosclerosis research including vascular cell biology, lipoprotein biochemistry and thrombosis. The department is part of the Research Institute of The Cleveland Clinic Foundation which consists of nine departments comprising over 150 scientists and pre- and postdoctoral trainees. The Cleveland Clinic Foundation is a national medical referral center. Applicants should send their curriculum vitae to: Dr. Mehdi Razavi, Chairman, Search Committee, The Cleveland Clinic Foundation, One Clinic Center, 9500 Euclid Avenue, Cleveland, OH 44195-5066. Affirmative Action/Equal Opportunity Employer.

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The University of Louisville is seeking an individual to serve as Chairperson and oversee the revitalization of the Department of Pathology. Candidates should have demonstrated abilities in educational teaching, as well as the capability to administer the academic and service operations of the Department. Candidates should be Board-certified in pathology and eligible for medical licensure in the state of Kentucky. Interested individuals should send a letter of application and curriculum vitae by 1 April 1989 to: Fred J. Reisner, Ph.D., Chairman, Pathology Search Committee, Department of Anatomical Sciences and Neurobiology, University of Louisville, Louisville, KY 40292. Affirmative Action/Equal Opportunity Employer.

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Applications are invited at the level of systems administrator in the Department of Genetics/Advanced Computational Methods, University of Georgia. The successful candidate will be expected to establish and maintain a molecular biology network comprising 48 laboratories, to assist in the development and maintenance of software for DNA sequence analysis and molecular graphics, and to develop a user support program for laboratory personnel. Salary will depend on experience. Application should supply a résumé, any reprints, three letters of reference, and salary requirements. Send materials by 15 March 1989 to: Personnel Services Division, The University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

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Scientific consulting firm offering assistance in analysis of data and communication of findings in written reports and public presentations to a variety of forums seeks Ph.D.'s in biomedical and biological sciences and M.D.'s interested in consulting opportunities. Disciplines of interest include epidemiology, biostatistics, toxicology/pharmacology, research design, pathology, immunology, allergy, etc., and any of the medical specialties. Applicants will provide assistance on various projects depending on the qualifications of the person looking to supplement ongoing activities. Travel can be minimized. Retired individuals are welcome as are all academic positions. Please send résumé and rate structure to: Vice President, Suite 206, 5421 M Street, NW, Washington, DC 20007.

DIRECTOR OF THE KELLOGG BIOLOGICAL STATION
MICHIGAN STATE UNIVERSITY
Michigan State University seeks a resident director of its Kellogg Biological Station. The responsibility of the director is to build at the Station a program of excellence in research, education and extension directed toward the comprehensive understanding of the interdependence of natural and managed terrestrial and aquatic systems and the conservation of natural resources.

Applications and nominations are invited for the position of Resident Director of the Kellogg Biological Station. Applicants should have an earned Ph.D. in biology or a closely related discipline, and be familiar with the Station's research, education and extension programs. In addition, applicants should have demonstrated capability for leadership, management and administration, and the ability to stimulate and direct research, teaching, and extension programs. Nominations, letters of application and curriculum vitae should be addressed to: Dr. William J. Knapp, Program Director, Kellogg Biological Station, Michigan State University, East Lansing, MI 48824.

POSITIONS OPEN
DEAN OF THE COLLEGE OF BIOLOGICAL SCIENCES
THE OHIO STATE UNIVERSITY
Applications and nominations are invited for the position of Dean of the College of Biological Sciences. The Dean is responsible for academic leadership, resource management, and productive synergistic relationships with other University units including Agriculture, Mathematical and Physical Sciences, Medicine, Pharmacy and the Biotechnology Center. The Dean also plays a major role in the development and public relations activities. Candidates should have an earned Ph.D. degree and a record of research accomplishment that warrants a faculty appointment at the rank of Full Professor in the College. The position is available 1 September 1989. Salary is negotiable and commensurate with background and experience. Nominations or letters of application, curriculum vitae, and telephone numbers of four references should be addressed to: Dean C. William Kern, Chair, Biological Sciences Search Committee, Office of Academic Affairs, The Ohio State University, 203 Bricker Oval Mall, Columbus, OH 43210. Telephone: 614-292-2874.

The Search Committee will begin screening dossiers of potential candidates in early 1989 and will continue to receive applications and nominations until the Dean is selected. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

The David Mahoney Institute of Neurological Sciences (INS) of the University of Pennsylvania is recruiting a DEVELOPMENTAL NEUROBIOLOGIST at the rank of assistant or associate professor. We are particularly interested in people working at the molecular or cellular level, either in vivo or in vitro, in other aspects of nervous system development. The INS has over 100 members and already has several excellent laboratories working on cellular, molecular and genetic aspects of neural development and regeneration. Applicants should send their curriculum vitae and addresses of three references to: Michael E. Selzer, M.D./Ph.D., Department of Neurology Hospital of the University of Pennsylvania 3400 Spruce Street Philadelphia, PA 19104-4283 The University of Pennsylvania is an Equal Opportunity/ Affirmative Action Employer.

THE OHIO STATE UNIVERSITY
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U.S. PATENT AND TRADEMARK OFFICE

POSITION: Microbiologist/Patent Examiner Opportunity involves the scientific and legal evaluation of patent applications involving recombinant DNA, molecular and cellular immunology, molecular genetics, microorganisms, cell biology, cell culture, fermentation, enzymology or clinical chemistry.

QUALIFICATIONS: A full 4-year or longer professional curriculum in an accredited college or university leading to a Bachelor's Degree or higher with specific study in Molecular Biology, Biochemistry, Immunology, Enzymology, Embryology, Protein Chemistry, Microbiology or Cell Biology.

A Ph.D. or M.S. degree with relevant research experience is preferred. A B.S. degree with significant research experience will be considered.

Research Experience in any of the following areas would be beneficial: DNA cloning, protein chemistry, gene expression, sequencing techniques, mutagens, hybridoma technologies, monoclonal antibody applications, mammalian or plant cell lines, cell culture, immunosassays, hybridization techniques, fermentation, enzymatic reaction, diagnostics and automation of clinical analysis.

SALARY: Dependent upon experience and qualifications.

LOCATION OF POSITION: Arlington, VA

For further information contact:
Patent and Trademark Office
Office of Personnel, C&E
CPK 1, Suite 700
Washington, D.C. 20231
703-557-3631
Toll free: 800-368-3064

BS/MS SCIENTISTS
Virology Research

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. In 1988, Lilly invested over $500 million in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking self-motivated, innovative scientists for the newly established Virology Research Division. The ideal candidate will have the following qualifications:

- Bachelor's or Master's degree in virology, microbiology, or a related discipline.
- Two to five years experience with virology or molecular virology research.
- Experience with tissue culture and aseptic techniques.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate's experience.

For prompt consideration, please forward your resumé to:

Maria L. Poor
Science Recruitment (AV-1)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

Director
Molecular Biology
(Canada)

Merck Frosst Canada Inc., the Canadian subsidiary of Merck & Co. Inc. U.S.A., is expanding the Merck Frosst Center For Therapeutic Research located in Montreal, Canada.

We invite applications from experienced molecular biologists to head up a newly created department of molecular biology. As our successful candidate, you will establish a molecular biology program which will complement our current research activities in respiratory diseases and inflammation. You have a Ph.D. and/or M.D. degree, a proven record of achievement in molecular biology and biochemistry, a sound publication record and strong leadership and communication skills.

We offer an excellent salary and benefits package, including a non-contributory pension plan and major medical and dental coverage. Enjoy the charm and tranquility of life in Canada's most cosmopolitan city.

Reply, in confidence, providing a curriculum vitae and list of publications to: The Employment Manager, Merck Frosst Canada Inc., P.O. Box 1005, Pointe-Claire, Dorval, Quebec, Canada H9R 4P8.
DIRECTOR, undergraduate biology laboratories, for fall 1989. Lecturership, salary negotiable. Candidate should have a Ph.D. in life sciences with strong interest in undergraduate teaching. Includes working with faculty, coordinating and developing new laboratories, supervising teaching assistants. In addition, there is the option to develop and teach new lecture or laboratory courses. Applications should submit curriculum vitae, teaching experience/interest, and addresses of three references to: Cynthia Johnson, Undergraduate Program in Biological Sciences, Northwestern University, Hogan Hall, 2153 Sheridan Road, Evanston, IL 60208.

The University of California, San Diego (UCSD), Department of Pediatrics is seeking a DIRECTOR for the Division of Immunology. Appointment will be at the associate to full professor (tenure-track). The applicant should be a pediatrician who has a strong research background in either basic immunology or a related field (i.e., allergy, rheumatology, etc.). The successful candidate should have a record of research and teaching, with a large group of molecular geneticists. Curriculum vitae to: Aubrey Milhunsky, M.D., D.Sc., Director, Center for Human Genetics, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118.

DIRECTOR DIVISION OF IMMUNOLOGY IMMUNOLOGY PROGRAM

The University of Texas Medical Branch (UTMB) invites applications and nominations for the Director of the Immunology Division in the Department of Microbiology. The University is undergoing a phase of vigorous growth in immunology. This includes the establishment of a strong Immunology Division which will spearhead development of our campus-wide Program in Immunology. The Director will be responsible for establishing a research program, recruiting a number of new faculty, providing scientific leadership to the campus-wide Immunology Program; coordinating graduate and medical education, and establishing collaborative and interdisciplinary research efforts. Applicants should have a Ph.D., D.Sc., and/or M.D., and a national/international reputation in research and academic leadership in any area of immunology. UTMB is a large state-supported medical center with an excellent basic science environment, start-up funds, competitive salaries, and modern facilities located in Galveston in close proximity to the Houston metropolis. Applicants should send curriculum vitae; reprints of recent publications; and names, addresses, and telephone numbers of five references to: Immunology Search Committee, c/o Dr. Gary Klimpel, Department of Microbiology J-19, UTMB, Galveston, TX 77550.

UTMB is an Equal Opportunity M/F/H/V/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

DIRECTOR OF WEBB-WARING LUNG INSTITUTE

Applications are solicited for candidates with demonstrated capacity for leadership in scientific research and administration of institute affairs. The Institute’s mission is to study the lung and its diseases and to disseminate what is learned. It contains 30,000 square feet of space. All investigators are active members of the University of Colorado medical school faculty. The Institute is an Equal Opportunity/Affirmative Action Employer. Interested individuals write to: Dr. Henry W. Toll, Jr., Chairman, Search Committee, Webb-Waring Lung Institute, Box C321, UCHSC, Denver, CO 80262 by 1 May 1989.

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RESEARCH SCIENTIST POSITIONS

GEO-CENTERS, INC., a rapidly growing professional services R&D firm, specializing in chemical, materials, biological, and optical sciences, has immediate openings for Senior Technical Staff Members and Support Personnel.

BONE GROWTH

A senior staff member is sought to conduct histological analyses of bones and various cells that metabolize bone, and measurement of indices of bone growth and bone quality in conjunction with selected growth factors to evaluate their effect on bone growth. The successful candidate will possess a Ph.D. in Histology/Pathology or a related field, with demonstrated practical laboratory experience. Code 2094

Support personnel are also needed to prepare specimens for histological evaluations, and to perform biochemical assays which may include the use of radioisotopes. Some computer analysis will be required. Successful candidates will possess a B.S./M.S. in Histology/Pathology or a related field with 1-3 years of practical experience in a laboratory environment. Code 2095

SEPTIC SHOCK

A senior staff member is required to conduct research on the pathophysiology of septic shock, and to take a lead role in conducting clinical evaluations of potentially useful therapeutic drugs. The successful candidate will possess a Ph.D. in Pharmacology or Physiology, with demonstrated practical experience in drug evaluations, experimental design, and statistics. Code 2096

WOUND REPAIR

Support personnel are required to assist in the evaluation of novel polypeptides, proteins, growth factors, and biopolymers for use in enhancing wound repair. This position involves the preparation of materials and models needed for the studies, and to assist in the evaluation of their effects on wound repair. Successful candidate will possess a B.S./M.S. in Biochemistry/Biology or a related field, with 1-3 years of practical experience, and a working knowledge of cellular mechanisms. Code 2097

CELL SORTING

A senior staff member is required to assist in the development of fluorescence activated cell sorting. This position will involve the utilization of state-of-the-art instrumentation, and will focus on the development of novel methodologies related to this technique. The successful candidate will possess a Ph.D. in Molecular Biology or a related field, and a strong chemistry background. Code 2117

A support staff member is also required to assist in the operation of various cell sorting instrumentation. The successful candidate will possess a B.S./M.S. in Molecular Biology or a related field, with 1-3 years of demonstrated practical experience with cell sorting instrumentation. Code 2118

GEO-CENTERS, INC. offers competitive salaries, relocation assistance, and an outstanding benefits package. U.S. CITIZENSHIP REQUIRED. Qualified candidates are urged to send their resume, salary history/requirements, and professional references in confidence to:

GEO-CENTERS, INC.
10903 Indian Head Highway
Ft. Washington, MD 20744
Attn: Deborah Hall-Greene/Code _______.
POSITIONS OPEN

ECOLOGIST—Visiting assistant professor of biology for the academic year 1989–90, beginning in August 1989. Responsibilities include teaching two courses each semester: limnology and advanced ecology in semester one, both with laboratories; basic ecology and human ecology in semester two, supervised by independent study projects and laboratories. Ph.D. required; women and minorities are encouraged to apply. Send curriculum vitae, undergraduate and graduate transcripts, and three letters of reference to Dr. Robert C. Klimpel, Search Committee, Department of Biology, Lafayette College, Easton, PA 18042. An Equal Opportunity Employer.

ECOLOGY AND EVOLUTION: Stony Brook—Tenure-track. We seek a JUNIOR CANDIDATE in evolutionary or ecological theory, behavior, molecular evolution, or systematics (ideally combined with theoretical or molecular expertise) or an outstanding senior individual in any area complementary to our present faculty. Send curriculum vitae, research and teaching plans, and three letters of recommendation to: Search Committee, Ecology and Evolution Department, SUNY, Stony Brook, Stony Brook, NY 11794, by 10 March 1989. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Employer. AK 3.

ELECTRON MICROSCOPE FACILITY DIRECTOR: Full-time, nontenure-track position available 1 June 1989. Experience in preparative procedures (conventional and immunoelectron microscopy, in hybridization, visualization of macromolecules, molecular mass analysis) and operation of high-resolution microscopes is desired. Ability to collaborate with other investigators in biological/agricultural sciences, and develop own extramurally funded research programs. Subsequent curriculum vitae, statement of research interests, and three letters of reference to: Dr. Carol V. Gay, 108 Althouse Laboratory, The Pennsylvania State University, University Park, PA 16802, by 15 March 1989. An Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

ENDOCRINOLOGY AND METABOLISM

The Division of Endocrinology and Metabolism, 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 but assistant/associate professors and instructors are being sought. The positions are open to individuals fulfilling these criteria: (i) Having a research background, being able to perform independent research, and having a record of major involvement in personal and divisional research programs, (ii) Having a firm commitment to and involvement in teaching programs for medical students, residents, and fellows, (iii) Demonstrating the ability to manage research programs. To apply, send full credentials to: J. Claude Bennett, M.D., Department of Medicine, University of Alabama Medical Center, Birmingham, AL 35294. UAB is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION CELLULAR AND MOLECULAR BIOLOGY GROUP

The Department of Biology at WVU invites applications for a tenure-track position at the assistant professor level to start 16 August 1989. A Ph.D. and a minimum of 2 years of postdoctoral experience are required. We are seeking a cellular/ molecular biologist working on cysnetic systems. Special consideration will be given to individuals interested in regulatory biology. The successful candidate will be expected to develop an independent research program, to develop graduate and teaching, and to develop a funded research program. Please submit curriculum vitae, a brief description of future research plans, and the names and telephone numbers of three individuals who can provide letters of recommendation to: Dr. Dennis C. Quinan, P.O. Box 6057, Department of Biology, West Virginia University, P.O. Box 6057, Morgantown, WV 26506. Applications must be received by 1 April 1989. WVU is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority group members.

POSITIONS OPEN

Opportunities for ENVIRONMENTAL SCIENTISTS, CHEMISTS, ENGINEERS, AND MANAGERS are available in several locations throughout the US. All fees are company paid. We are currently searching for project managers, laboratory managers, engineers, technicians, etc. for IC/ICP and data interpretation chemists and environmental engineers at all degree levels. To learn more, call: Karen Lybrook, 401-840-2270 or send your résumé to: Lybrook Associates, Inc., P.O. Box 572, Newport, RI 02840.

ESTUARINE SCIENTIST

The University of Georgia's Marine Institute has an opening immediatley. The position involves working in the field of salt marsh ecology/estuarine studies. This permanent faculty position is at the assistant/associate level; salary and rank are dependent on qualifications. Applications are due to the Dr. James J. Albert, Director, University of Georgia, Marine Institute, Sapelo Island, GA 31327. Deadline for applications is 1 May 1989.

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION ANATOMY, CELL AND MOLECULAR BIOLOGY

The Department of Anatomy and Cell Biology, SUNY Health Science Center at Brooklyn, New York, invites applications for several faculty positions in an actively growing department committed to expanding its faculty in the area of cellular, molecular, and neuro-biology. One of the positions available is for the department of a core faculty in structural biology equipped with a Tracor-Northern digital imaging system analysis and scanning and transmission electron microscopy. Candidates must require teaching in our medical school gross anatomy or histology/cell biology or neuroanatomy and participation in graduate school core curriculum. Excellent laboratory space and a faculty-activated microcomputer program are available for this position. We require a M.D. or Ph.D. degree with postdoctoral experience in cell biology, and demonstrated excellence and independence in their research program. Candidates with research interests in analysis of tissue-specific gene expression, molecular biology of muscle development and neuro muscular diseases, cell surface receptors and membrane channels or signal transduction mechanisms are encouraged to apply. Send curriculum vitae, a statement of research goals, and the names of three references to: Dr. M. A. Q. Siddiqui, Professor and Chairman, Department of Anatomy and Cell Biology, SUNY Health Science Center at Brooklyn, 450 Clarkson Avenue, Box #5, Brooklyn, NY 11203.

Equal Opportunity/Affirmative Action Employer. DMC #CR290.

FACULTY POSITION—BIOLOGY—Mesa State College

Applications are invited from persons with strong backgrounds in development biology, genetics, and molecular biology. Ph.D. required. Appointment beginning fall 1989, for 1 year with expectation that funding will be approved enabling renewal. Send curriculum vitae, names of references, and teaching in the areas mentioned and non-majors' courses. Research is encouraged. Deadline: 17 March 1989. Send letter of application and current résumé to: William Porter, An Affiliate to the President, Mesa State College, Grand Junction, CO 81502. Mesa State College is an Equal Opportunity/Affirmative Action Employer. Applications from members of protected classes are especially invited.

POSITIONS OPEN

ENVIRONMENTAL SPECIALIST to provide technical and scientific support in establishment and maintenance of Ambient Monitoring Network with the State; quality assurance/quality control procedures in groundwater sample collection, laboratory analysis and data transmission and use of statistical and numerical methods to evaluate data; provide scientific rationale to establish chemical and physical criteria for monitoring Ambient Network and to develop computerized statistical software package and maintain database management system to data generated in the Ambient Network. Require M.S. in analytical chemistry with 1 year experience of regulatory monitoring in lieu of M.S. and 1 year's experience. Demonstrated ability to perform stated duties. Salary: $1,979.11 per month. Forty-hour week. 8:00 a.m. to 4:30 p.m. Resumé to: Job Service of Florida, 1307 North Monroe Street, Tallahassee, FL 32303. Job Order #FL-003642.

FACULTY POSITION DEPARTMENT OF BIOCHEMISTRY

The Department of Biochemistry at The University of Texas Health Science Center at San Antonio invites applications for a tenure-track faculty position at the assistant or associate professor level. Candidates with research expertise in any area of contemporary biochemistry or biophysics will be considered. Consideration will be given to candidates whose research would benefit from access to state-of-the art protein sequencing and mass spectrometry facilities. Interested persons should send curriculum vitae, a statement of their research interests, and the names of three professional references to: Dr. Merle S. Olson, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7760. The deadline for applications is 1 April 1989. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN BIOCHEMISTRY, School of Pharmacy, University of Maryland at Baltimore. The Department of Medicinal Chemistry/Pharmacognosy invites applications for a tenure-track faculty position in the area of medicinal chemistry. Areas of research interest include but are not limited to macromolecular biochemistry, chemistry of natural products and medicinal chemistry. Candidates must have demonstrated excellence and independence in their research program. They are expected to develop a research laboratory and participate in the development of new courses. Applicants should send a complete curriculum vitae, a statement of their research interests, names of three professional references to: Dr. Marilyn K. Speedie, School of Pharmacy, 20 North Pine Street, Baltimore, MD 21201. An Equal Opportunity Employer.

FACULTY POSITIONS IN IMMUNOLOGY

The Division of Immunology in the Department of Microbiology at The University of Texas Medical Branch (UTMB) is undergoing vigorous growth. Applicants are being sought for several faculty positions (assistant to full professor). Qualified applicants with a Ph.D., D.Sc. and/or M.D. and interested in any area of immunology are invited to apply. Such individuals would be expected to develop a research program using innovative approaches (molecular or cellular) to address immunobiological mechanisms. They also should be interested in teaching undergraduate and graduate courses in the division and in the development of our campus-wide Immunology Program. UTMB has an excellent basic science environment, a large pool of research associates, and modern research and teaching facilities. UTMB is a large medical center located in Galveston, in proximity to the Houston metropolitan area. The successful applicant will have the opportunity to be the lead investigator on federal contracts and grants, and to participate in the development and publication of original work. Applications should be submitted, with a letter of application, curriculum vitae, and names of three references to: Dr. David B. Klimpel, Department of Microbiology, J-19, UTMB, Galveston, TX 77550.

UTMB is an Equal Opportunity M/F/H/V/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

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POSITIONS OPEN

FACULTY POSITION IN FERMENTATION MICROBIOLOGY/BIOTECHNOLOGY, School of Pharmacy, University of Maryland at Baltimore. The Department of Medicinal Chemistry/Pharmacognosy invites applications for a tenure-track faculty position, at the level of assistant or associate professor, for research in the area of fermentation microbiology or biotechnology. Areas of research interest might include, but are not limited to, development of microbial expression systems, mechanism of protein-secretion, genetic aspects of bio- catalysis, or regulation of gene expression. Candidates must have demonstrated excellence and independence in their research field. Teaching responsibilities include participation in biochemistry and/or microbiology courses for pharmacy students and participation in the graduate program. Candidates should send a complete curriculum vitae, plans for future research and three letters of recommendation to: Dr. Marilyn K. Speedie, School of Pharmacy, University of Maryland, 20 North Pine Street, Baltimore, MD 21201. An Equal Opportunity Employer.

FACULTY POSITIONS
MOLECULAR CELL OR DEVELOPMENTAL BIOLOGY

Three tenure-track faculty positions in molecular cell/ developmental biology are available at a major university in suburban New York City. Rank and salary open; postdoctoral experience and evidence of research productivity are required. Teaching of both undergraduates and graduate students is expected, but the successful candidate will have a primary responsibility to train Ph.D. students in a competitive, externally-funded research program. Substantial start-up funds and newly-renovated laboratory space are available. Candidates should submit curriculum vitae with list of publications, a brief statement of research interests, and the names of at least three references by 23 March 1989 to: Dr. Richard A. Lockshin, Chair, Department of Biological Sciences, St. John's University, Jamaica, NY 11439.

LECTURER IN BIOLOGY
CARLETON COLLEGE

The Department of Biology invites applications for a full-time, 1-year, nontenure-track appointment with the possibility of renewal. The position begins September 1989. Teaching duties include general introductory biology courses and may include participation in an intermediate-level course in vertebrate biology. Participation in several team-taught introductory biology courses and, where appropriate, a seminar in the field of interest. Minimum requirements: A Ph.D. is preferred, and the degree may be in biology, ecology, and/or zoology. Please send, with undergraduate and graduate transcripts and three letters of reference to: Dr. John L. Tymoczko, Chairman, Department of Biology, Carleton College, Northfield, MN 55057. Closing date for applications is 1 March 1989. Carleton College is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF OXFORD
in association with Magdalen College
UNIVERSITY LECTURERS IN CHEMICAL PATHOLOGY

Applications are invited for the above post tenable from 1 October 1989. Candidates will have a developed research interest in molecular biology with a strong interest in the application of recombinant DNA technology to medical problems. The holder of this post will be expected to contribute to advanced teaching in cell biology. The ability to play some contribution to introductory teaching in pathology, bacteriology, or virology would be an advantage. Stipend according to age on the scale £9,865 to £20,615. The successful candidate may be offered a tutorial fellowship at Magdalen College. Further details may be obtained from Professor H. Harris, FRS, Sir William Dunn School of Pathology, South Parks Road, Oxford, OX1 3RE, to whom applications (nine typed copies or one from overseas applicants with full curriculum vitae, summary of research interests and the names of three referees) should be sent by 13 March 1989.

MARINE BIOLOGICAL LABORATORY

AUGUST COURSES—1989

HISTORY OF BIOLOGY: NEUROBIOLOGY AND BEHAVIOR July 30–August 12

CELLULAR BIOLOGY IN THE LEECH August 3–August 23
This course applies techniques and approaches of cellular and molecular neurobiology to the study of a single nervous system, that of the leech. Limited to 10 students. Co-Directors: J. G. Nicholls, Biocenter, University of Basel and Kenneth J. Muller, University of Miami School of Medicine. Application Deadline: April 15th.

METHODS IN COMPUTATIONAL NEUROSCIENCE August 6–September 2
This intense, advanced lecture and laboratory course presents the basic techniques necessary to study single cells and neural networks using simulation software developed at the California Institute of Technology. Limited to 20 students. Co-Directors: James M. Bower and Christof Koch, California Institute of Technology. Application Deadline: May 15th.

MOLECULAR EVOLUTION August 20–September 1
This advanced lecture/discussion course for ecologists, organismic and molecular biologists with an interest in molecular evolution provides both theoretical and practical approaches to phylogenetic analyses. Limited to 60 students. Director: Mitchell Sogin, National Jewish Center for Immunology/Respiratory Medicine. Application Deadline: June 1st.

For further information and application forms, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543, (508) 548-3705, Ext. 216.

Neuroscientist

Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, has an immediate opening for a Neuroscientist in the Pharmacology Department of the Specialized Therapeutic Research, Immunology/Respiratory Research, Position 310. Responsibilities of the position will be to use in vitro physiological assays for the discovery of new drugs that affect mammalian central or sensory neurons, supervision of one or more assistants and the summarization and communication of results, including preparation of manuscripts for publication.

The successful candidate will have:

- Ph.D. or equivalent with post-doctoral experience in pharmacology, neuroscience or physiology
- Experience with one or more of the following techniques desirable: functional assays of receptor-mediated actions in cell lines or oocytes, in vitro neurophysiological preparations, tissue culture, functional neuroanatomy
- Excellent written and oral communications skills
- Ability to work as part of a team effort

Employment will be at our modern facilities adjacent to The University of Michigan campus. We offer excellent benefits, interested, qualified applicants are urged to apply. Applications and curriculum vitae should be addressed to: Ms. S. Hultquist, Human Resources Representative, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105.

PARKE-DAVIS
DIVISION OF WARNER-LAMBERT COMPANY

"Equal Opportunity in Action"
POSITIONS OPEN

FACULTY POSITION IN PHARMACOLOGY

Faculty position at assistant/associate professor level in pharmacology, tenure-track, for individual interested in neuropharmacology. Candidates should have had at least 2 years of relevant postdoctoral experience. Submit a brief statement of research plans, curriculum vitae, bibliography, and names of three references by 20 March 1989 to: Dr. H. George Mandel, Department of Pharmacology, George Washington University Medical Center, 2300 Eye Street, NW, Washington, DC 20037.

An Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN MOLECULAR VIROLOGY AND YEAST MOLECULAR GENETICS. Tenure-track assistant or associate professor positions in a growing department with research strengths in molecular immunology and pathogenesis. Potential for collaboration with other large research programs in inflammation, oncology, atherosclerosis, and molecular genetics. The successful candidates will be expected to establish an independent research program and participate in the teaching of graduate and medical students. Send curriculum vitae, description of research goals, and names of three references to: Dr. Steven Mize, Department of Microbiology and Immunology, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, NC 27103. WFU is an Affirmative Action/Equal Opportunity Employer.

MANAGER, BIOCHEMICAL SYSTEMATICS LABORATORY

The Field Museum of Natural History invites applications for a new position in the Biochemical Systematics Laboratory. The primary responsibilities of the successful candidate will be to coordinate and conduct the laboratory portion of staff research projects and supervise grant-supported laboratory technicians in the completion of these projects. Current phylogenetic and biogeographic studies employ horizontal starch-gel electrophoresis, but we anticipate employing DNA sequencing and DNA fingerprinting techniques in the near future. Applicants must have a Master's Degree, extensive experience with all aspects of protein electrophoresis (planning through scoring), and preferably are familiar with one or more additional biochemical techniques. Limited research opportunities are possible where compatible with staff salary. Research dependent upon qualifications and experience. Send curriculum vitae, detailed statement of laboratory experience, and three letters of recommendation to:

Dr. Scott M. Lanyon
Head, Division of Birds
Field Museum of Natural History
Roosevelt Road at Lake Shore Drive
Chicago, IL 60605

The Field Museum of Natural History is an Equal Opportunity Employer.

MARINE MICROBIOLOGIST: A new tenure-track faculty position at the assistant or associate professor level is offered with a 12-month appointment (currently 80 to 85% funded from state support) in the College of Oceanography at Oregon State University. We seek a microbial ecologist with primary interest in bacterially mediated processes or trophic dynamics. Candidates whose research interests intersect with our laboratory and chemical oceanography are especially encouraged to apply. The successful candidate will be expected to maintain an active, externally funded research program in marine microbial ecology, participate in marine microbiology and biological oceanography, and supervise graduate students. A Ph.D. in oceanography, microbiology, or a related field and postdoctoral research experience are required. Rank and salary commensurate with experience. Résumé, names, addresses, and telephone numbers of three references must be received by 31 March 1989 by: Dr. Douglas R. Caldwell, Dean, College of Oceanography, Oregon State University, Oceanography Admin Building 104, Corvallis, OR 97331-5603.

Oregon State University is an Affirmative Action/Equal Opportunity Employer, complies with Section 504 of the 1973 Rehabilitation Act, and has a policy of being responsive to the needs of dual-career couples.

SCIENTIFIC COMPUTING OPPORTUNITIES

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc. is a major research-driven manufacturer and marketer of prescription and over-the-counter drugs. We are currently expanding computer and automation resources in our Research and Development Facility in DANBURY, CONNECTICUT.

This M.S. Department currently has the following positions available:

Toxicology Information Management/Scientific Programmer Analyst: BA/BS Degree in Physical or Life Science (or Computer Science with a minor in Life or Physical Science/lab experience). Must have 3 or more years experience in DEC VAX operating systems programming in PASCAL or FORTRAN along with an understanding of GLP/GMP regulations as they apply to computer applications.

Position is within DBMS group on information management applications development and support in the DEC VAX environment. Emphasis is on toxicology data management but also includes applications on TRIP, BASIS and ORACLE. Respond to Dept. PTG-19-85.

Senior Scientific Program Analyst: Scientific degree, BA/BS, with 3+ years of scientific programming experience or computer science degree with 5+ years of scientific programming experience. Knowledge of PASCAL, Turbolmage, 3000, HPDesk intrinsics and related HP3000 DBMS tools required. Experience with HP3000 programming and application development and with support of scientific information management application.

Please send your resume and salary requirements, indicating code to: BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer but may require a TNH/I/v.

Senior Scientist
Toxicology

We’re the R.W. Johnson Pharmaceutical Research Institute, a member of the Johnson & Johnson Family of Companies. Our strategy is to maintain a fast-growing pharmaceutical business by continuing to develop products of the highest quality.

We currently have a significant career opportunity for an individual to become part of our scientific team. To qualify, you should possess a Ph.D. in Toxicology/Pharmacology or relevant area with 2 years’ experience in a pharmaceutical or related setting preferred.

The successful candidate will function as a study director of various types of GLP general toxicology studies. Responsibilities include designing experiments, conducting/managing studies, and accurately summarizing and reporting the findings.

This position supports our important research endeavors and affords professional growth. We offer a competitive salary and the comprehensive benefits of a Johnson & Johnson Company, as well as a convenient suburban Philadelphia location. For immediate, confidential consideration, please submit curriculum vitae and salary requirements, to: J. Stehr, McNeil Pharmaceutical, Spring House, PA 19477.

Boehringer Ingelheim
A Johnson & Johnson Company

An Equal Opportunity Employer
Help Us Turn Research Into Reality

We’re The R.W. Johnson Pharmaceutical Research Institute, a member of The Johnson & Johnson Family of Companies. Our strategy is to maintain a fast-growing pharmaceutical business by providing a clear focus and direction to managing our resources so that we obtain optimum results and provide opportunities for our employees to grow. You can be part of this exciting and meaningful environment and help us discover and develop products of the highest quality if you meet the requirements of one of the following openings at our Raritan, NJ site (near Princeton).

**Senior Scientist/Principal Scientist**

Our Drug Metabolism Department seeks a candidate with a PhD or equivalent in Analytical or Organic Chemistry or Biochemistry. Post doctoral experience desired. You should have 3 plus years' industrial experience developing and performing methods for the separation and identification of xenobiotic metabolites; be thoroughly familiar with state-of-the-art computerized analytical technology; be experienced in designing protocols for non-clinical and clinical biotransformation studies.

You will be responsible for directing a staff of scientists in multiple projects, preparing reports for submission to Regulatory agencies and for publication, and interfacing with scientists in Toxicology and Clinical Departments. (Dept. 9A)

**Associate Scientist**

Our Protein Products Development Department seeks a candidate with a BS or equivalent in Biosciences and 4 plus years' experience; or an MS or equivalent and 2 plus years' experience. The successful candidate will assist in structural elucidation of proteins and peptides. Experience is required in protein analysis, specifically protein sequencing, amino acid analysis and peptide mapping using automated instrumentation. (Dept. 9B)

We offer competitive salaries and the comprehensive benefits you would expect from a Johnson & Johnson Company. We invite you to forward your resume, including salary requirements, to: Mr. Frank Folio, Ortho Pharmaceutical Corporation, Dept # as indicated above, P.O. Box 300, Raritan, New Jersey 08869-0602.

An Equal Opportunity Employer, M/F

THE R.W. JOHNSON
PHARMACEUTICAL RESEARCH INSTITUTE

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**Opportunities in Drug Discovery Research in Japan**

**Pfizer Central Research at Nagoya, Japan**, is offering excellent career opportunities in our expanding drug discovery research programs. The laboratories located 35 km south of Nagoya city are an integral part of Pfizer Central Research worldwide and Pfizer Taito Co. Ltd., a Pfizer Inc. subsidiary. We are seeking scientists at the PhD level with degrees in Biochemistry, Immunology, Pharmacology, Microbiology, and Organic Chemistry, and 1-3 years of postdoctoral or industrial experience. Beyond strong technical expertise, all positions require both extensive Japanese and English communication skills and computer literacy. Specific requirements are as follows:

**Immunologist/Biochemist**

The successful candidate will have work expertise in cytokines, cell surface receptors, and lymphocyte activation. Initially, this individual will be responsible for developing in vitro assays aimed at accomplishing several goals, including evaluation of the role of different mediators in the immune response. Knowledge of tissue culture techniques is essential.

**Pharmacologist**

A broad knowledge of, and experience with, various animal models of inflammation is essential. The successful candidate will be responsible for developing animal models of arthritis and autoimmunity. Some background in general pharmacology and cellular immunology is desirable.

**Microbiologist**

A strong background in biochemistry and molecular biology of microorganisms is essential. Knowledge of taxonomy is desirable.

**Natural Products Chemist**

The successful candidate will become a member of our discovery fermentation group. Experience in modern isolation techniques and spectral methods is essential.

**Organic Chemist**

Applicants should have extensive expertise in organic synthesis. Responsibilities include design and synthesis of biologically active compounds. Keen interest in the biological aspects of drug discovery is essential.

Pfizer Taito offers competitive compensation and excellent benefits, including a relocation package. Qualified applicants should submit their resumes and a brief description of their research accomplishments to: Mr. Kenji Takamatsu, Director of Personnel, Pfizer Taito Co., Ltd., P.O. Box 226, 1-1 Nishi-Shinjuku 2-Chome, Shinjuku, Tokyo 163, Japan.

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POSITIONS OPEN

MATHMATICAL EPIDEMIOLOGY

A POSTDOCTORAL POSITION in mathematical epidemiology of infectious diseases is available. Specific topics will be selected in consultation with the applicants, Director: Dr. Joan L. Aron, Department of Epidemiology, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205.

MICROBEAM TECHNICIAN

THE UNIVERSITY OF TEXAS AT EL PASO

Our current instrumentation in materials science includes an electron microprobe (Camca SX-50, housed in geological and earth sciences) and an ESCA SAMII (Perkin-Elmer Phi 560, in physics). We seek a person with experience on either or both types of instruments to assist with the maintenance and operation of the equipment and associated laboratories. Position initially will be funded by a 5-year grant in materials science; the University is expected to make the position permanent at the end of that period. Salary range $20,000 to $25,000 depending on qualifications.

Candidates should send curriculum vitae, a list of three references (including addresses and telephone numbers), and a brief description of their experience in instrumental laboratories to: Nicholas E. Pintigore, Chair Department of Geological Sciences University of Texas at El Paso El Paso, TX 79968-0565 Telephone: 915-747-5754 or 5501

The deadline for applications is 31 March 1989 or such time as a suitable candidate is found.

The University of Texas at El Paso is an Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF MANITOBA

DEPARTMENT OF BIOLOGY

MOLECULAR BIOLOGIST

The University of Manitoba, Department of Zoology invites applications for a tenure-track position. Molecular biologist to start September 1989. Salary is dependent on qualifications and experience. Applicants must have a Ph.D. with postdoctoral experience in development, evolution, or genetics. Promising applicants from other areas of metazoan molecular biology are not excluded. Responsibilities include: teaching and graduate and undergraduate research. Both women and men are encouraged to apply. In accordance with Canadian Immigration, priority will be given to Canadian citizens or permanent residents. Applicants must submit curriculum vitae, descriptions of research interests, representative reprints and names of at least three references by 15 April 1989 to: Dr. J. H. Gee, Zoology Department, University of Manitoba, Winnipeg, Manitoba, Canada, R3T 2N2.

MOLECULAR BIOLOGIST

The Department of Pathobiology, College of Veterinary Medicine, Auburn University, invites applications for a tenure-track position. Applicants should have strong training and significant research experience in the molecular or genetic aspects of bacterial disease. A Ph.D. degree and postdoctoral research experience are required; a D.V.M. or equivalent degree and research experience in veterinary bacteriology are desirable. The successful candidate will be expected to develop an independent research program, restore laboratory facilities for collaborative research, and participate in graduate training programs. Salary and rank commensurate with training and experience. Application deadline is 15 April 1989, or until the position is filled; position available 1 June 1989. Applicants should submit curriculum vitae, summary of current research activities, and names of three references to: Dr. Lauren G. Wolfe, Department of Pathobiology, Auburn University, AL 36849. Auburn University is an Equal Employment Opportunity Employer. Minorities and women are encouraged to apply.

POSITIONS OPEN

MOLECULAR BIOLOGIST

UNIVERSITY OF MARYLAND COLLEGE PARK

The Division of Human Genetics seeks a full-time, tenure-track investigator using molecular approaches to study gene regulation and expression in mammalian or other eukaryotic systems. The successful candidate will be expected to establish an independent research program and contribute to the training of graduate and professional students. A Ph.D., or equivalent degree, with at least 3 years of postdoctoral experience, is required. The ability to obtain independent funding within a reasonable period is essential.

The Division offers 8 years of full-time faculty members (five Ph.D. and three M.D.) representing a broad range of basic and applied research interests. The Division offers a Ph.D. degree in human genetics and its clinical training program is fully accredited by the American Board of Medical Genetics.

Salary and academic rank are commensurate with qualifications and experience. Candidates should submit a current curriculum vitae, a detailed statement of past experience, one-page description of future research plans, and have three letters of reference sent by 15 March 1989 to:

Dr. Maimon M. Cohen Division of Human Genetics 655 Woman Street, c/o Lybrook Baltimore, MD 21201

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

MOLECULAR BIOLOGISTS. PERMANENT OR POSTDOCTORAL to join group engaged in studies on the strain-dependent, tissue-specific gene expression of acutely-regulated murine gene family members. Research projects focus on: the identification of regulatory regions of the genes and characterization of DNA binding proteins. The ideal candidate should be well-versed in recombinant DNA techniques although all applicants will be considered. Salary is $25,000 to $30,000. Please forward curriculum vitae to: Dr. John E. Mole, Department of Zoology, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester, MA 01655. UMMC is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGY AND BIOCHEMISTRY IN CARDIOVASCULAR DISEASE

POSTDOCTORAL FELLOW position available for Ph.D. and/or M.D. beginning 1 July 1989. The fellow will be expected to join an already existing group with expertise in thrombosis, thrombolysis and endothelial cell biology. Attractive compensation and surrounding research environment. Please send curriculum vitae and references to: Dr. Mark Koegel, D.J. Reis, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street—KB410, New York, NY 10021. Equal Opportunity Employer/Affirmative Action.

PHARMACOLOGIST/ NEUROPHARMACOLOGIST

Assistant professor/instructor/postdoctoral. Multidisciplinary neuroscience research division seeks pharmacologist/neurobiologist with experience in receptor/second messenger systems as related to traditional neurotransmitter and peptide systems to join in research related to novel neurotransmitter and trophic agents in brain. Please send curriculum vitae and bibliography to: K. Koenig/D. J. Reis, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street—KB410, New York, NY 10021. Equal Opportunity Employer/Affirmative Action/HIV.

PLANT PHYSIOLOGY/PLANT BIOTECHNOLOGY

TENURE-TRACK POSITION. Ph.D. and/or M.D. in plant physiology required. Submit letter of application, curriculum vitae, brief statement of teaching and research interests, and names of three references by 15 March 1989 to: Dr. Eugene Bresnick, Personnel Department, Weber State College, Ogden, UT 84408—1016. Position will not be filled prior to 7 April 1989. Equal Opportunity Employer and invites and encourages applicants from women and minorities.

PHARMACEUTICAL OPPORTUNITIES

Lybrook Associates recruits scientists and managers for some of the finest pharmaceutical companies in the United States. All fees are company paid. Current searches include: Pharmacokinetics/drug metabolism Ph.D.'s for hands-on and management opportunities. Microbiologist Ph.D.'s with pharmaceutical experience. Quality assurance managers for both start-up and established companies. Organize and manage analytical chemists at all degree levels for a variety of opportunities throughout the United States. To learn more about pharmaceutical opportunities, call Karen Lybrook 817-2210, or send your résumé to: Lybrook Associates, Inc., P.O. Box 572, Newport, RI 02840.

Garette Herbarium at the Utah Museum of Natural History seeks a recent Ph.D. in Plant Systematic Biology to curate a collection of 100,000 specimens. Will be expected to maintain an independent research program. Possibilities for collaboration with the Department of Biology in terms of research and teaching. Send curriculum vitae, three supporting letters and telephone number to: John K. Stone, c/o Garette Herbarium, Utah Museum of Natural History, c/o Personnel Services, University of Utah, 101 Annex Building, SC-5544, UT 84112. Closing date for candidates is 1 April 1989 or until successful applicant is found.

PLANT MOLECULAR BIOLOGY/BIOCHEMISTRY, ASSISTANT, ASSOCIATE, FULL PROFESSOR

The Department of Biology at the University of Michigan seeks applications for three positions: two tenure-track, one-track. All positions are on the tenure-track, and one position is authorized at the level of associate or full professor. We seek applicants from individuals with a strong background in the techniques of plant molecular biology/biochemistry in attacking significant problems related to growth, development and metabolic regulation in plants or algae. The department is now in a period of rapid growth, and all positions will be housed in modern laboratories. In addition, the Matthaei Botanical Gardens, a unit of Biology, provides excellent facilities for the growth of experimental material. Biology, in cooperation with the Department of Chemistry, has facilities for oligonucleotide synthesis and molecular hybridization; peptide sequencing facilities are close at hand in the Medical School. The successful candidates will be expected to conduct active research programs and participate in the graduate and undergraduate teaching programs of the department. Applicants for the assistant professor position at the assistant professor level should send a current curriculum vitae and brief statement of future research plans. Applicants should also request letters of recommendation from at least three referees. Applicants for a tenured position should submit curriculum vitae, statement of future research plans, and the names of four referees. Candidates for the senior position will be contacted before references are sought, and all communications will be in strictest confidence. Application materials for both positions should be addressed to:

Chair, Plant Molecular Biology Search Committee Department of Biology

The University of Michigan

Ann Arbor, MI 48109—1048

Evaluation of applications will begin on 15 March 1989 and continue until these positions are filled.
Welcome to our state-of-the-art facility, designed by scientists to meet the changing needs of pharmaceutical research into the next century. You’ll find that our environment is uniquely suited to the exchange of ideas across many disciplines. Your participation as a team member will be encouraged, and you’ll also have ample opportunity to pursue your own professional objectives. Join us in Wallingford, Connecticut, in one of these challenging positions:

**Pharmacology/Stroke Research**
MS/BS in Physiology, Pharmacology or related discipline and 2-4 years laboratory experience in methodologies associated with drug evaluation. Requires experience with in vivo/in vitro stroke models and radiotopes.

**Pharmacology/Hematology**
BS/MED TECH with pharmacology/hematology experience to conduct in vitro and ex vivo studies in platelet aggregation and thrombosis. Phlebotomy and analytical skills desirable.

**Molecular Biology**
MS/BS with 2-4 years experience in molecular biology research, including some/all of the following techniques: molecular cloning, DNA sequencing, RNA isolation, Northern/Southern blotting, primer extension analysis, cell culture and in situ hybridization. Research will involve application of molecular biological techniques to the study of atherosclerosis, including discovery of novel therapeutic approaches at the molecular level and study of basic molecular processes in atherogenesis.

**Biochemistry**
MS/BS in Biochemistry, Cell Biology or related area with 2-5 years experience in biochemical, immunological and tissue culture techniques; including some/all of the following: chromatography, protein electrophoresis, fluorometry, ELISA and RIA. Position involves the study of vascular endothelial cells, platelets and other blood cells as they function in thrombosis, hemostasis and atherogenesis.

BRISTOL-MYERS is a growth leader and major global competitor in pharmaceutical research and development. We provide highly competitive salaries and benefits in an attractive countryside location, convenient to Connecticut cultural centers, New York and New England. Learn how you can contribute to our cardiovascular drug research by sending your resume with salary history, noting position of interest, to: BRISTOL-MYERS COMPANY, Pharmaceutical Research & Development Division, Attn: ATZ92S, P.O. Box 5100, 5 Research Parkway, Wallingford, CT 06492. An Equal Opportunity Employer M/F/H/V.

Bristol-Myers Company
Explore with us.
Cambridge NeuroScience Research is a research and development company which focuses on Neurobiology and its applications. We have a new, well-equipped facility located in Cambridge, Massachusetts, close to M.I.T. and Harvard University. We are seeking a Group Leader and Staff Scientist for our Neurotrophic Growth Factor Program.

**Senior Scientist - Protein Chemistry**

The candidate should have a Ph.D. with a minimum of 3 years' post-doctoral experience with state-of-the-art techniques, including HPLC and other microanalytic methods of protein purification and characterization. The successful applicant will have developed a reputation for independent research.

**Staff Scientist - Cell Biology**

The candidate should have a Ph.D. and at least three years' experience with the culture of cells from the nervous system.

These scientists will interact with molecular biologists, cell biologists, and neuropharmacologists within the Company and with the Company's extensive network of well-respected neuroscience consultants.

Cambridge NeuroScience Research offers a stimulating research environment with competitive salaries and excellent benefits, including Founders Stock. Applicants for the above positions should send their curriculum vitae and the names of three references to: CNS Research, Human Resources Manager, One Kendall Square, Building 700, Cambridge, MA 02138, U.S.A.

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**POSTDOCTORAL POSITIONS in PLANT MOLECULAR BIOLOGY**

Texas A&M University

POSTDOCTORAL POSITIONS are available immediately to work on cis- and trans-acting factors involved in the developmental control of plant gene expression. Experience in recombinant DNA techniques and DNA sequencing are required; additional experience in plant gene transfer methods or analysis of DNA-protein interactions is preferred. Applications, including curriculum vitae and the names of three references with addresses and telephone numbers, should be directed to: Dr. William D. Park, Department of Biochemistry and Biophysics, telephone: 409-845-8868, or Dr. Terry L. Thomas, Department of Biology, telephone: 409-845-0184.

Texas A&M University
College Station, TX 77843

Texas A&M University is an Equal Opportunity Employer.

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**POSTDOCTORAL FELLOW/RESEARCH ASSISTANT** to study oxygen transport, blood rheology, and macrovascular blood flow by intravital microscopy in sickle cell disease and other blood disorders. Requirements: Ph.D. in bioengineering or physiology. Related experience desirable. Send curriculum vitae with names and addresses of references to: Herbert H. Lipowsky, Chairman, Bioengineering Program, The Pennsylvania State University, 233 Hallowell Building, University Park, PA 16802. An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

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**POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE**

The Blood Center of Southeastern Wisconsin, an internationally recognized leader in blood cell-related research, is pleased to announce the availability of a position within the Platelet Molecular Biology Laboratory. Qualified candidates will participate in a multidisciplinary approach, employing molecular biological, biochemical, and immunological techniques to the study of cell surface membrane glycoprotein receptors. Experience in one or more of the following disciplines is desirable: Molecular biology cell culture and transfection analysis, membrane protein biochemistry, or receptor characterization. Send curriculum vitae and the names of three references to: Dr. Peter J. Newman, The Blood Center of Southeastern Wisconsin, 1701 West Wisconsin Avenue, Milwaukee, WI 53233. The Blood Center of Southeastern Wisconsin is an Equal Opportunity/Affirmative Action Employer.

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**POSTDOCTORAL FELLOWSHIP** available immediately for NIH-funded studies on molecular mechanisms and regulation of brain development. Background in neuroscience, experience in molecular biology and tissue culture desirable. Send curriculum vitae, recent reprints, and the names of three references to: Dr. Robert Fellows, Department of Physiology and Biophysics, The University of Iowa, 5-660 Bowen Science Building, Iowa City, IA 52242. An Equal Opportunity/Affirmative Action Employer.

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**POSTDOCTORAL POSITION** available immediately to study G protein-mediated signal transduction. Experience in biochemistry, cell culture, and molecular biology is desirable. Send curriculum vitae and the names of three references to: Dr. Joel Abramowitz, Department of Medicine, Baylor College of Medicine, 6555 Fannin, M.S. F505, Houston, TX 77030.
Request for Applications

GENE THERAPY AND CYSTIC FIBROSIS

The Cystic Fibrosis Foundation invites investigator-initiated grant applications on the fundamental scientific issues associated with applying gene therapy to cystic fibrosis (CF).

This request is intended to encourage innovative and meritorious projects that can advance the study of CF gene therapy while the search for the CF gene continues. Research areas responsive to this request include, but are not limited to:

- Identification of appropriate airway cells for therapeutic replacement of defective CF genes;
- Development and risk assessment of vector systems for delivering the normal allele of the CF gene into airway cells;
- Development of model systems for examining the scientific, safety and technical issues associated with CF gene therapy.

Research approaches and models must be directly relevant to the application of gene therapy to CF. Applicants may request support for up to three years; funding levels will be commensurate with the scope of projects.

The deadline for submission of applications is July 1, 1989. For further information and application forms, please contact Dr. Robert J. Beall or Ms. Dale Glass at the

Cystic Fibrosis Foundation

6931 Arlington Road
Bethesda, MD 20814
(301) 951-4422
University of California, Davis
CELLULAR NEUROBIOLOGY
TRAINING PROGRAM

Funding is available to support qualified individuals for training in cellular neuroscience at both postdoctoral and predoctoral levels. Successful applicants will join a young, vigorous neuroscience group that is highly interactive and in which collaborations are common. We particularly encourage participation of trainees in projects involving the expertise of two or more training faculty:

Hilary Anderson, Development of insect nervous systems
Richard Carlson, Cell biology of axonal and muscle regeneration
Leo Chalupa, Prenatal development of mammalian visual system
Carol Erickson, Morphogenesis and differentiation of neural crest
Mark McNamara, Molecular biology of ACh receptors
Brian Muloney, Generation and modulation of motor patterns
Pamela Pappone, Biophysics of ion channels
Robert Scobey, Retinal physiology
Barry Wilson, Cholinesterases and neurotoxicology
Martin Wilson, Cell biology of the retina

For more information, contact Dr. Brian Muloney, Director, Cellular Neurobiology Training Program, Department of Zoology, University of California, Davis, CA 95616, or phone (916) 752-7468.

UCD is an Equal Opportunity/Affirmative Action Institution.

LA TROBE UNIVERSITY
(AUSTRALIA)
SCHOOL OF BIOLOGICAL SCIENCES
CHAIR OF GENETICS AND
HUMAN VARIATION

Applications are invited for appointment to the Chair of Genetics and Human Variation in the School of Biological Sciences which has become vacant following the resignation of the foundation professor, Professor P A Parsons. Research and teaching activities in the Department encompass a broad spectrum of interests, including human genetics (demographic, anthropological and health, immunogenetics and cancer genetics, molecular genetics); ecological and conservation genetics (plants, insects, mammals, marine invertebrates); evolutionary genetics (insects, marsupials, plants); and molecular and cell biology of eukaryotes, especially mammals. A major strength of the Department is its diversity of approaches to the study of the phenomena of heredity.

The University invites applications from distinguished scientists in any field of genetic research. The successful applicant will possess an outstanding research background in his or her chosen field, and will be expected to demonstrate strong academic leadership and a dedicated commitment to teaching within the Department.

The University reserves the right not to make an appointment or to make an appointment by invitation.

Salary: $453,397

Further information can be obtained from the Dean, School of Biological Sciences [telephone (03)479.2196], or from the Manager, Staffing and Secretariat [telephone (03)479.2028].

Applications should quote reference number 150-217 and include a curriculum vitae and the names and addresses of three referees. The application, marked "In Confidence", should be forwarded to the Manager, Staffing and Secretariat, La Trobe University, Bundoora, Victoria 3083 by 31 March 1989.

Equal Opportunity is University Policy

ANNOUNCEMENT

Recruitment of Executive Director

The International Union Against Cancer, a non-governmental organization, wishes to recruit an Executive Director for its secretariat in Geneva.

Applicants should be knowledgeable in medical affairs, especially in the field of cancer and preferably in the international field. A pleasant and diplomatic character trait would be helpful in our fund raising activities.

Languages: fluent English and a good working knowledge of French are expected.

Date of engagement will be decided by mutual agreement.

Applications with a curriculum vitae, photocopies of diplomas and degrees, and the names of two referees should be sent to:

Dr. Max M. Burger
International Union Against Cancer
3, rue du Conseil-Général
CH-1205 Geneva

PHYSICS INSTRUCTOR/ASSISTANT

SUNY College of Technology at Utica/Rome

Tenure track position to develop and teach courses in support of engineering technology programs.

QUALIFICATIONS: PhD in any area of experimental or bio-physics and commitment to excellence in undergraduate teaching. Salary and rank commensurate with education and experience.

Send letter of application and resume by March 1, 1989, to:

Anthony P. Panebianco
Director of Personnel/Affirmative Action

SUNY

College of Technology at Utica/Rome

SUNY

Drawer 907
P.O. Box 3050
Utica, New York 13504-3050

Affirmative Action/Equal Opportunity Employer
Abstracts will be due for the meeting will be based on the submitted abstracts. Abstracts will be published in the second volume issue of CYTOKINE (W.B. Saunders Company). Deadline for receipt of abstracts is 15 June 1989. For abstract forms, meeting information, and registration forms contact: Sherwood M. Relchard, Cytokines, c/o RES Society, Box 3044 MCG, Augusta, GA 30912 USA.

This meeting has as its goals a) to encompass and integrate the most recent data concerning cytokine synthesis, release, regulation, actions, and interactions, and b) to assess the in vivo effects of these cytokines on cell, tissue, organ and organism metabolism, physiology, and immunity. The topics to be covered include structure, gene expression, regulation of synthesis and release, receptors and post receptor events, cytokine activities, alone and in combination, assays for and inhibitors of the cytokines. Among the cytokines to be considered are interleukins, the interferons, TNF, TGF, PDGF, chemotactic factors, the various colony stimulating factors, bone and connective tissue growth factors, as well as newly identified activities/factors. The significance of these cytokines and their interactions in growth, development, and in protection against, as well as pathogenesis of, illness and injury will also be considered.

Among the invited speakers are: Robert Friedman (interferons), Tadamitsu Kishimoto (IL-6), Thomas Maciag (ECGF), Lloyd Old (TNF), Russell Ross (PDGF), Ruth Sager (GRO), Arthur Silverstein (historical perspective). The content of the rest of the meeting will be based on the submitted abstracts.

The individual seeking will be a recent graduate with a PhD in Immunology, Biology or Biochemistry, will have hands-on experience in experimental cellular immunology and be familiar with contemporary techniques in protein biochemistry.

We offer an excellent salary and benefits package, including 401k savings plan, and a convenient Rockland County location just 25 miles north of New York City. If you’re ready to make a contribution to a challenging program, send your resume to: Lederle Laboratories, Professional Employment Office, Middletown Road, Pearl River, New York 10965. We are an equal opportunity employer.

OCCUPATIONAL OPPORTUNITIES IN ENVIRONMENTAL RESOURCES/REMOTE SENSING

The Department of Environmental Resources, Cook College–Rutgers University, a multidisciplinary department focusing on environmental and natural resource planning and management issues, has a number of faculty and staff positions available with starting dates of July 1, 1989. Effective August 1989 the Department will be relocating to a new building that will contain dedicated space for the Cook College Remote Sensing Center.

The following 12 month tenure track Faculty Positions are available. The successful candidate will be expected to establish a vigorous research program and participate in an appropriate graduate program.

1. Assistant/Associate Professor of Environmental Management. The position requires a Ph.D. with at least one degree in a physical or biological science and a proven research record in remote sensing focusing on watershed or environmental management issues. Teaching responsibilities will include remote sensing, quantitative methods, and participation in an interdisciplinary air photo interpretation course.

2. Assistant Professor of Forest Hydrology/Forest Management. The position requires a Ph.D. with at least one degree in forestry and specific education and/or experience in watershed management, remote sensing, and/or geographic information systems. Teaching responsibilities will include a course in silviculture, watershed management/remote sensing, and participation in a multidisciplinary air photo interpretation course.

3. Assistant Professor of Environmental Planning and Management. The position requires a Ph.D. in environmental planning, environmental management, or a related field with at least one degree in a physical or biological science. Teaching responsibilities will include an undergraduate two semester course in environmental planning and a course in environmental management. Research experience should be in the area of land or water resources and/or geographic information system development or applications.

The following 12 month Staff Positions are available pending confirmation of grant funding as of July 1, 1989:

1. Associate Director, Cook College Remote Sensing Center (Salary Range $39,252–$52,987). Under the supervision of the Director, the Associate Director will oversee the day-to-day operation of the Center’s research and instructional programs. The Associate Director will be expected to play a direct role in both the ongoing research activities of the Center and the development and funding of new research programs. At a minimum, the successful candidate will have a M.S. in a physical or quantitative science and three years experience in remote sensing research. The successful candidate will have demonstrated the ability to secure external funding.

2. GIS/Training Coordinator (Salary Range $30,753–$41,521). The GIS/Training Coordinator will report jointly to the Director of the Cook College Remote Sensing Center and the Director of the Office of Continuing Professional Education. The Training Coordinator will be responsible for the development of training materials and Continuing Professional Education Programs focusing on the GRASS GIS package. The Training Coordinator will also provide support for the research activities of the Center. The position requires a bachelor’s degree in a physical, quantitative, or environmental science; knowledge of GIS fundamentals and techniques preferred; and previous experience in professional education.

Applications, including a letter of interest, curriculum vitae, brief summary of research interests and goals and names of three references should be sent to: Diane S. Reed, Administrative Assistant, Department of Environmental Resources, Cook College Rutgers University, P.O. Box 231, New Brunswick, New Jersey 08903. Review of applications will begin on March 15, 1989 and continue until the positions are filled. Cook College–Rutgers University is an Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL POSITION
Available in February 1989 NMR/biochemistry to perform NMR experiments on an animal model for sickle cell vasoostriction, to perform data analysis for clinical MRI studies of sickle cell patients, and develop solution NMR (200 to 600 MHz) to study abnormal and malaria-infected red cells. Send curriculum vitae and names of the three references to: Dr. Lawrence B. Lachman, Department of Cell Biology, 173, M. D. Anderson Cancer Center, 1515 Holcombe Blvd., Houston, TX 77230. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately to study genetic regulation of the cell cycle in mammalian cells. Isolation of recombinant clones encoding genes which play a significant role during the cell cycle, expression/regulation of such genes and their encoded mRNA/mRPNC complexes, and the impact such genes have on tumorigenesis will be pursued as part of an ongoing research program. Starting salary is $24,000. Send curriculum vitae and three letters of reference to: Dr. Robert Buttyan, Division of Urology, University of Alberta, Edmonton, AB T6G 2J5. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Send curriculum vitae and three letters of reference to: Dr. Peter J. Linhardt, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION
Available immediately to study expression of apolipoprotein gene product, with emphasis on its regulation. Will perform studies using radioactive and stable isotope techniques to determine changes in gene expression and translation in cell free systems. Send curriculum vitae to: Dr. Larry M. Fabry, Department of Urology, 1915 Hospital Drive, College Station, TX 77843. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately for a position in the laboratory of Dr. Robert M. Gillette for the study of red blood cell physiology. The laboratory is involved in the use of radiolabeled compounds to study red blood cell metabolism. The candidate will participate in research projects with emphasis on the development and characterization of radiolabeled compounds and their use in red blood cell metabolism studies. Send curriculum vitae and three letters of reference to: Dr. Robert M. Gillette, Department of Pharmacology, University of Illinois, College of Medicine, 815 S. University Ave., Urbana, IL 61801. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available in the area of human fetal brain development, particularly with respect to the role of myelination in the development of brain structures. Send curriculum vitae and three letters of reference to: Dr. Marc H. Benowitz, Department of Pharmacology, University of Illinois, College of Medicine, 815 S. University Ave., Urbana, IL 61801. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately to study the production of a polyclonal antibody to a murine retina. Send curriculum vitae and three letters of reference to: Dr. David E. Smith, Department of Ophthalmology, University of Washington, Seattle, WA 98104. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately to study the expression and regulation of the genes encoding the apolipoprotein B protein. Send curriculum vitae and three letters of reference to: Dr. Robert Buttyan, Department of Urology, University of Alberta, Edmonton, AB T6G 2J5. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately to study the properties and expression of the gene encoding the preproinsulin A chain. Send curriculum vitae and three letters of reference to: Dr. Larry M. Fabry, Department of Urology, 1915 Hospital Drive, College Station, TX 77843. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately to study the expression and regulation of the genes encoding the apolipoprotein B protein. Send curriculum vitae and three letters of reference to: Dr. Robert Buttyan, Department of Urology, University of Alberta, Edmonton, AB T6G 2J5. An Equal Opportunity/Affirmative Action Employer.

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POSTDOCTORAL POSITION
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Lilly Research Laboratories

POSTDOCTORAL SCIENTIST PROGRAM

Eli Lilly and Company

THE LILLY RESEARCH LABORATORIES, a Division of Eli Lilly and Company, is offering postdoctoral research opportunities in several areas of biology, pharmacology, and chemistry. Postdoctoral Scientists will work in close association with Lilly scientists who are involved in the basic research process of drug discovery. Publication and presentation of results will be an integral part of the program. This postdoctoral experience is designed to give individuals in-depth research training in a focused area of biology and/or chemistry. The program will also provide an opportunity to become acquainted with the drug development process within the pharmaceutical industry. Postdoctoral Scientists will be expected to participate fully in the conceptual and design phases of projects, within the following areas:

Molecular Neuroendocrinology Research

Applicant should be Ph.D. or M.D., with strong background in molecular biology. The position will permit a blend of talents and techniques in molecular biology with those in neuroendocrinology. This multidisciplinary approach will be used to uncover cDNA sequences of neurohormone genes in domestic animals and to investigate their regulation of anterior pituitary function. Approaches include cDNA cloning, sequencing, expression, pituitary cell culture, and other molecular biology and endocrinology techniques.

Molecular Oncology and Pharmacology Research

Applicant should have background in pharmacology, biochemistry, or molecular biology. Research will involve studies on mechanism of action of novel anticancer drugs using human tumor xenografts. The role of cellular oncogenes in determining drug sensitivity and evaluation of new inhibitors of oncogene function will be a primary focus of the program.

Protein Folding Research

Applicant should have experience in such relevant areas as: optical spectroscopy, hydrodynamic techniques, or protein chemistry. The position will be in the Pharmaceutical Research Department to study the physical properties of proteins that are produced through biotechnology development. The proposed research will study protein folding, association, and solubility.

Postdoctoral appointments are of one-year duration and are renewable for a second year with mutual agreement. Candidates with no more than one previous postdoctoral experience are encouraged to apply.

Eli Lilly and Company will provide a comprehensive pay and benefits program including relocation expenses.

Qualified applicants should send their current curriculum vitae, indicating program of interest to:

John W. Crooks, Manager
Ph.D. Recruitment (PSF)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

Equal Opportunity Employer
POSTDOCTORAL POSITIONS

Lipids-Atherosclerosis-Nutrition Training Program fun-
ded by NHLBI. Postdoctoral trainees are available for
research and training in areas of (i) role of cholesterol in
membranes, (ii) structure and molecular biology of lipid
transfer protein and cholesterol esterases, (iii) familial
and molecular studies on dyslipoproteinemia, (iv) chole-
sterol and bile acid homeostatic mechanism, (v) patho-
genesis of atherosclerosis, (vi) role of branched chain
amino acids in lipid metabolism and nutrition, (vii)
modulation of lymphocyte physiology by membrane-
bound lipoproteins, and (viii) neonatal nutrition. Faculty
includes M. Ashraf, Ph.D., W. F. Balistreri, M.D., B.
Newcomb Cameron, Ph.D., J. K. Harmon, Program
Director, Lipids-Atherosclerosis-Nutrition Training Grant,
University of Cincinnati Medical Center, 231 Bethes-
da Avenue, K-Pavilion, M. L. #549, Cincinnati, OH
45267.

POSTDOCTORAL RESEARCH ASSOCIATE needed.
Research on the synthesis of organic com-
ounds. This job involves the operation of high Resolu-
tion FT-NMR (Fourier Transform—Nuclear Magnetic
Resonance), I.C. (Liquid Chromatograph) IR (Infrared)
and organic compound characterization equipment. For-
ty hours per week, 8:00 a.m. to 5:00 p.m.; $17,000 per
year. Six years of grade school, 5 years of high school, 4
years of college. Doctor of Science degree with major
in organic chemistry. One year of experience as research
assistant in chemistry field. Apply at the Texas Empl-
oyment Commission, Arlington, Texas, or send resume
to: The Texas Employment Commission, TEC Building,
Austin, TX 78778, J.O. #5424217. Ad paid by an Equal
Employment Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

(Ph.D.) in available in immunology group studying
HIV-1. One position is available to study the role of
protein phosphorylation in the infection of CD4+ T
cells by HIV-1. A second position is available developing
immunogenic vaccines to HIV-1, HTLV-II and tumor
antigens, utilizing genetic engineering. Experience in
molecular biology and/or cellular immunology is desir-
able. Send curriculum vitae and three letters of refer-
ence to: Dr. Stephen E. Wright, Texas Tech University
School of Medicine, Department of Internal Medi-
cine, 1400 Wallace Boulevard, Amarillo, TX 79106—
1797.

PROFESSOR OF MARINE STUDIES

The Institute for Marine Studies, College of Ocean and Fish-
ery Sciences, University of Washington, invites applica-
tions for a position available September 1989 at the assistant
or associate professor level. The appointee will have
primary responsibility for a multidisciplinary academic
program concerning the management of fisheries and
should be qualified to teach appropriate courses in the
IMS curriculum. The candidate should be a social scient-
ist (e.g., natural resource economist, sociologist, etc.)
with considerable knowledge of fishery science, posses-
s a Ph.D. or equivalent degree, have specialized in the study
of marine living resources, have practical experience in
some aspect of resource management, have a strong publica-
 tion record, and have teaching experience.

Applicants should provide curriculum vitae, state-
ments concerning the applicant’s views on the central
problems in fishery management, and the applicant’s
research interests, reprints of several recent publications,
and names and addresses of four references to: Marc L.
Miller, Search Committee, Institute for Marine Stud-
ies HI-05, University of Washington, Seattle, WA
98195. The closing date is 30 March 1989.

The University of Washington is an Affirmative Action/
Equal Opportunity Employer. Women and members of minority
groups are encouraged to apply for this position.

IBM
SEeks science writers/press enthusiasts
for its Research Division Headquarters
in Yorktown, NY.

IBM is seeking four seasoned science journalists/scientific press
relations veterans for challenging publicity positions at its Research
headquarters in the New York Metropolitan area.

This is an excellent opportunity for talented writers who can
transform complex technical ideas into lucid English prose and who
have the ability to formulate and execute successful, national-scale
publicity plans. You will enjoy a stimulating working relationship with
a world-class scientific staff, and have the opportunity to deliver the
first word of their discoveries to the public.

These are career positions with a firm that promotes from within and
offer a range of career possibilities in the U.S. and abroad. Travel is
involved. We offer good salaries, commensurate with experience
and ability, and excellent benefits. Interested persons should send
a resume with references to Joyce Resigno, Sr. Recruiter, IBM
Research Division, PO. Box 218, Dept. S, Yorktown Heights, NY
10598.

An equal opportunity employer

PROJECT COORDINATOR
Pharmaceutical Development

Merck & Co., Inc., located in Rahway, NJ invites applications for a posi-
tion as Project Coordinator in the Merck Sharp & Dohme Research
Laboratories (MSDRL). This is an entry-level position in the Project Plan-
ning & Management Department (PP&M) with responsibility for the plan-
nning and coordination of all development activities required to support
regulatory filings (U.S./Overseas) for new molecular entities in a specific
therapeutic area.

PP&M has overall administrative responsibility for the planning, coordina-
tion/management and tracking of all new drug development projects in
MSDRL. This activity involves interaction with all scientific departments
within MSDRL, both Basic Research and Development, and personnel at
all levels of management. In addition, PP&M coordinates communica-
tions with other Divisions of the company including Marketing, Manufac-
turing and Licensing in order to ensure the achievement of corporate
objectives.

Applicants should have a BS or MS degree in science and/or business
and 3-5 years experience in a project management function in the phar-
maceutical industry.

Merck Sharp and Dohme Research Laboratories is located in Rahway,
New Jersey, approximately 25 miles from New York City. Our salaries,
benefits and growth potential are excellent. Please send resume with
salary history and the names of three references to Ms. Lonnie L. Deetz,
Human Resources Associate, P.O. Box 2000, Rahway, New Jersey 07065.

Equal Opportunity Employer.

Merck & Co., Inc.
Corporation
Supervisor, and
The Technology Center on Grand Island, NY between Buffalo and Niagara Falls.

An Environmental Microbiologist will perform laboratory experiments; do process design and scale up; and engage in on-site activities which support environmental remediation projects. The job may also involve planning, project management, and supervision of other professional and technical personnel.

The successful candidate will have a degree in Microbiology, Microbial Ecology, or similar discipline, and a demonstrated track record of independent work. An advanced degree is desirable in addition to field experience related to project activities.

OxyChem offers an excellent working environment, career growth opportunities, and a competitive salary and benefits package. For confidential consideration, please send resume and salary requirements to:

Alice M. Grant
Supervisor, Human Resources
Occidental Chemical Corporation
2801 Long Road
Grand Island, NY 14072

Predoctoral and Postdoctoral Fellowships
NSF Center for Microbial Ecology
Michigan State University

The recently established NSF Center for Microbial Ecology at Michigan State University invites applications for 12 predoctoral and 11 postdoctoral fellowships.

The aim of the Center is to understand the diversity, function and competitiveness of microorganisms in their habitats. Findings will have impact on the development of effective and environmentally safe genetically engineered microorganisms; destruction of hazardous wastes; improved bioconversion of natural polymers; and biological control of plant pests.


The research will be conducted in the following areas:

- Gene Pool Accessibility: Investigation of the prevalence of, mechanisms for, and barriers to gene transfer in nature.
- Population Genetics and Diversity: Determination of genetic and physiological diversity within microbial communities and their effect on overall performance or function of the communities.
- Novel Organisms: Isolation and characterization of new organisms for pollutant degradation and industrially important bioconversions.
- Physiological Bases of Competition: Definition of the mechanisms of microbial adhesion to substrata and their impact on microbial competition and ecological function; importance of natural toxins to microbial competition.
- Environmental Control of Microbial Functions: Determination of the interrelationship between the environment, the physiochemical character of complex substrates (lipidcopolymers and humates), and the biodegradative capacities of microbes.
- Chemical and Molecular Microbial Ecology: DNA probe methods for assessing gene exchange, population diversity and functional groups; advanced GCMS and data analysis for characterizing microbial diversity.

Predoctoral Fellowships: The Center will be accepting applications throughout the year although interested individuals are urged to submit applications as soon as possible.

Postdoctoral Fellowships: The Center invites applications from scientists with experience in microbial ecology/physiology/genetics and/or other focal areas of research described above. Applicants should submit curriculum vitae, the names of three references, and a letter describing research interests and relevant experience.

Address correspondence to: Dr. James Tiedje, Director, Center for Microbial Ecology, Plant and Soil Sciences Building, Michigan State University, East Lansing, MI 48824. Telephone (517) 353-9021.

MSU is an Equal Opportunity/Affirmative Action Employer.
Positions Open

Applicants are being sought for a POSTDOCTORAL position in biochemistry at the University of California, Berkeley. The position is supported by a grant from the National Institutes of Health and will involve the study of signal transduction in isolated gastric cells. Candidates should have a Ph.D. in biochemistry and experience in protein isolation and characterization techniques. The position is for one year and is renewable. The salary is negotiable. Please submit curriculum vitae and three letters of recommendation to: Dr. Paul F. Cook, Department of Microbiology and Immunology, University of California, Berkeley, CA 94720-3140. Phone: 415-642-2240. The deadline for applications is January 1, 1989.

BROWN UNIVERSITY
PROFESSOR AND CHAIRPERSON, SECTION OF PHARMACOLOGY

The Division of Biology and Medicine plans to appoint a Professor and Chairperson of Pharmacology during the academic year 1989-90. With the construction of a new wing to the Biomedical Center, opportunities exist to develop the current program in biochemical pharmacology into a broadly-based unit in the pharmacological sciences, which interacts with programs in biochemistry, molecular biology, neurobiology, pathology, and clinical pharmacology. The successful applicant is expected to lead this development, to establish a vigorous research program of national distinction, and to take administrative responsibility for pharmacology teaching at Brown. Pharmacology faculty participate in medical, graduate, and undergraduate teaching. The University of North Carolina provided structure for the Division of Biology and Medicine maximizes opportunities for research and teaching interaction among all of the biomedical and medical sciences, as well as with other disciplines at Brown University. Applicants should submit curriculum vitae, representative reprints, and the names of three references to: Dean Frank G. Rothman, Division of Biology and Medicine, Brown University, Providence, RI 02912. The deadline for receipt of these applications material is 31 March 1989. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Prominent medical center has an immediate opportunity for a postdoctoral fellow to participate in a 3-year NIH-funded project to investigate signal transduction in isolated gastric cells. Candidates should have a Ph.D. in biochemistry and experience in protein isolation and characterization techniques. The position is for one year and is renewable. The salary is negotiable. Please send curriculum vitae and three letters of recommendation to: Dr. Jean-Pierre Raufman, SUNY Health Science Center at Brooklyn, 450 Clarkson Ave., Box 1196, Brooklyn, NY 11203-2098. Equal Opportunity/Affirmative Action Employer. DMC #CR0251.

PROTEIN CRYSTALLOGRAPHY AND STRUCTURAL BIOLOGY

Applications are invited for a POSTDOCTORAL position involving application of these disciplines in an on-going x-ray crystallographic study of a number of actin-binding proteins, including profilin, involved in the cytoskeleton and cell motility. The position is sponsored jointly by Drs. Thomas D. Pollard and Eaton Lattman at the Johns Hopkins University School of Medicine. Membership in the newly established Institute for Biophysical Research on Macromolecular Assemblies may be possible. Experience in at least one of these areas is preferred, but persons with experience in physics or protein chemistry and an interest in moving into biophysics are also encouraged to apply. The position is available in the spring for a period of 2 to 3 years. Salary $18,000 to $20,000, depending on experience. Please contact either: Dr. Thomas D. Pollard, Department of Cell Biology and Anatomy, Johns Hopkins Medical School, Baltimore, MD 21205-2185; telephone: 301-955-1210; or Dr. Eaton Lattman, Department of Biophysics, Johns Hopkins Medical School, Baltimore, MD 21205-2185; telephone: 301-955-1210. John Hopkins is an Equal Opportunity/Affirmative Action Employer. Applications from minorities or women are particularly encouraged.

BROWN UNIVERSITY
RESEARCH INSTITUTE OF SCIRPIPS CLINIC
DEPARTMENT OF IMMUNOLOGY

POSTDOCTORAL RESEARCH FELLOW

A postdoctoral position is available immediately for an immunologist/biochemist/molecular biologist to participate in a NIH-funded project to develop monoclonal antibodies for human histocompatibility antigens. Projects include biochemical and mutagenic analyses of structural requirements for endocytosis of histocompatibility antigens, analysis of intracellular cytoskeletal protein degradation pathways, and effects of endocytosis on the generation of immune responses. Experience with recombinant DNA techniques and protein analysis is desired. Salary is negotiable. Please submit curriculum vitae and three letters of reference. Send curriculum vitae and three letters of reference to: Dr. Per A. Peterson or Dr. Shaokue Wu, Department of Immunology, Research Institute of Scripps Clinic, 10666 North Torrey Pines Road, La Jolla, CA 92037.

RESEARCH ASSOCIATE/POSTDOCTORAL RESEARCH UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)

Conduct research in the area of chemical carcinogenesis. The successful candidate will carry out research requiring familiarity with the Ames assay for mutagenesis, the micronucleus test for assessment of clastogenicity, and the 32P-postlabeling assay for measurement of DNA adducts. The research requires use of radiolabelled compounds and a strong knowledge of chromatographic techniques. A Ph.D. degree is preferred, but other candidates with appropriate experience will be considered. Salary is commensurate with background and experience. Interested candidates, please send curriculum vitae and names of three references to: Dr. John L. Friesen, Division of Environmental Health, UCLA School of Public Health, Los Angeles, CA 90024. The University of California is an Equal Opportunity/Affirmative Action Employer.

PROJECT LEADER

AGRI-DIAGNOSTICS ASSOCIATES

PROJECT LEADER PROTEIN/HAPTON CHEMISTRY

Agri-Diagnostics Associates (ADA), a leader in the development and marketing of new biotechnology products for agriculture, offers a new position of Project Leader – Protein/Hapten Chemistry. The project leader will serve as lead scientist and be responsible for developing small organic molecule immunogens for use in immunoassay development and for validation of immunoassay systems.

Requirements include a Ph.D. in biochemistry or organic chemistry, experience in synthetic chemistry, working knowledge of HPLC/TLC/GLC/MS and chromatographic techniques. Experience in immunochemistry and molecular and macromolecular characteristics desirable.

ADA, a joint venture of DNA Plant Technology and Koppers Corporations, offers an excellent compensation and benefits package. We are an exciting and growing organization located 15 minutes from Center City Philadelphia. Please send your resume and salary history to:

Human Resources
Agri-Diagnostics Associates
2611 Branch Pike, Cinnaminson, NJ 08077

THE SCIENCE RECRUITMENT “FOUR DAY CLOSE”

NOW YOU CAN SEE YOUR AD IN SCIENCE FOUR DAYS AFTER SUBMISSION

Scientific Recruiters can now advertise positions almost as soon as the need arises. Instead of reserving space a month or more in advance, you can now place your ad four days before the magazine mailing date. SCIENCE is mailed on the cover date.

Firm (right-reading, emulsion face down) or full camera ready ad and insertion order must reach: SCIENCE, Short Close Desk, 1515 Broadway, New York, NY 10036 by NOON Mondays (except for legal holidays when material must reach New York by Noon Fridays). Because space is limited, the four-day close page will be reserved on a first-come, first-served basis, at a 15% premium. ¼ and ½ page ads only.

Now you don’t have to wait to find the researchers you need immediately, nor must you advertise in a Sunday paper that pans a lot of sand, but not much gold. Scientific employers know that SCIENCE ads fill the job better. Now they fill it faster too.

You can call it “INSTANT RECRUITMENT.” For further information, telephone Ed. Keller, Recruitment Advertising Manager, or Donna Rivera, Production Manager at SCIENCE: 212-730-1050, or write to: SCIENCE, 1515 Broadway, NY, NY 10036.

CURRENT DISTRIBUTION 160,000
**RESEARCH VETERINARIAN/ SCIENTIST TISSUE REPAIR**

Amgen, an emerging leader in the biopharmaceutical industry, is actively seeking a scientist who has an interest in developing and understanding animal models of tissue repair and regeneration. This position offers the opportunity for full collaboration and interaction with a team of multidisciplinary scientists actively engaged in research to understand mechanisms of tissue repair and the biological effects of polypeptide growth factors on accelerating repair processes.

Candidates for this position must have a degree in veterinary medicine and/or doctoral degree and research experience. In addition, an interest and background in pathology, pharmacology, toxicology or a related discipline is desirable. Familiarity with current NIH and AALAC guidelines for animal research is also desirable.

Amgen offers an excellent compensation and benefits package, including equity offerings, as well as an attractive location northwest of Los Angeles. If you would like to be a part of a company that places high priority on its human resources and offers a stimulating and challenging research environment, please send a complete CV, in confidence, to:

Recruitment, Dept. #376  
AMGEN  
1900 Oak Terrace Lane  
Thousand Oaks  
CA 91320

**VERITAS**

Veritas Pharmaceuticals, Inc., a start-up multidisciplinary biotechnology company focused on the use of structural biology and organic chemistry to design and develop novel human therapeutics, has been formed in the Boston area. The company brings together the latest advances in the disciplines of molecular biology, cell biology, enzymology, biophysics (primarily X-ray crystallography and protein NMR spectroscopy), biochemistry, organic chemistry, peptide chemistry, computational chemistry, and molecular modeling to tackle protein-related drug targets, leading to the design and development of small molecule enzyme inhibitors and receptor agonists or antagonists. These disciplines will be supported fully in-house with state-of-the-art technology. The unique coordinated application of these advanced disciplines will allow a new rational approach to drug design. We are seeking applications for talented and innovative individuals who can assume leadership positions within these core disciplines. Salary and benefits are excellent, and a substantial equity position in the company can be anticipated. If interested, please direct a detailed resume in confidence to: Veritas Pharmaceuticals, Inc., P.O. Box 825, Cambridge, MA 02238. An Equal Opportunity Employer M/F.

**HEALTH SCIENTIST ADMINISTRATOR IN ENDOCRINOLOGY**

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) seeks an endocrinologist (Ph.D. or equivalent) with a track record of research accomplishment and excellent interpersonal and written communication skills to serve as Health Scientist Administrator for its Endocrinology Research Program. This position involves administration of grants and contracts, program planning and development, close interaction with leading endocrine researchers, and the opportunity to organize and/attend scientific meetings. The position is available September 1989 at a salary range of $41,121 to $63,717 per annum. Please submit Application for Federal Employment (SF-171) and/or CV and bibliography by March 31, 1989 to:  

Dr. Judith Fradkin, Chief  
Endocrinology and Metabolic Diseases Programs Branch  
NIDDK, NIH  
Westwood Bldg. Room 603  
5333 Westbard Avenue  
Bethesda, MD 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

**TOXICOLOGIST**

Abbott Laboratories, a successful provider of quality healthcare products and services worldwide, continues its commitment to top-quality management. Currently we have an opportunity for an experienced Toxicologist for our Division of Drug Safety Evaluation.

Duties will include study design, management and reporting of both in-house and contracted studies. In addition, the successful candidate will be involved as liaison between Toxicology and other groups within the Corporation.

A PhD in Pharmacology or Toxicology and a minimum of 2 years experience are required. Good interpersonal skills as well as excellent abilities in communication via both oral and written presentations are a must. Knowledge of the drug development process and appropriate GLP's are essential; board certification is desirable.

In addition to excellent salaries and a benefits package that includes profit sharing and a stock retirement plan, we offer a beautiful suburban location approximately 30 miles north of Chicago. For consideration, please send your resume with salary history to: Patricia Handy, Corporate Placement, Dept. SCI/2-10, Abbott Laboratories, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

**ABBOTT LABORATORIES**

Quality Health Care Worldwide 1888-1889
The Cystic Fibrosis Foundation (CFF) announces the availability of funding for highly meritorious applications that have been submitted to and approved by the National Institutes of Health (NIH) but remain unfunded.

This new CFF research grant offers support for outstanding CF-related research projects until NIH or other agency funding can be obtained.

Proposed projects must have been reviewed by an NIH study section and presented to an institute council within 12 months of applying to this program. In addition, applications must fall within the upper 50th percentile, with a scientific priority score of 250 or better.

Applications must be clearly relevant to CF. A maximum of $75,000 in annual support will be available for up to two years.

Applications are being accepted on a continuing basis. Investigators are encouraged to contact the Foundation to discuss the potential relevance of their work. For more information, contact Dr. Robert J. Beall at the

Cystic Fibrosis
Research Grants for
NIH-APPROVED
BUT
UNFUNDED APPLICATIONS

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Bethesda, MD 20814
(301) 951-4422

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The Department of Anesthesia, The Pennsylvania State University College of Medicine invites applications for Chief, Division of Anesthesia Research. Candidates must have a Ph.D. or M.D. degree with sound research experience. Outstanding research facilities are available in a strong academic environment. Opportunities exist for collaboration and a joint appointment in a basic science department is possible. The successful candidate will be expected to develop, maintain and lead a strong research program and to participate in the teaching of medical students and residents. Please respond by March 1, 1989. Send a description of research interests, curriculum vitae and the names of three references to:

Julien F. Blebuyck, M.B., Ch.B., D. Phil.
Eric A. Walker
Professor and Chairman
Department of Anesthesia
College of Medicine
The Pennsylvania State University
Hershey, Pennsylvania 17033
Equal opportunity/Affirmative Action Employer

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**Ph.D. MOLECULAR BIOLOGIST**

Merck & Sharp & Dohme Research Laboratories is currently offering an excellent career opportunity for a Ph.D. level Molecular Biologist in the Department of Cellular and Molecular Biology. Research in this department focuses on the isolation and expression of genes of potential pharmaceutical interest, in addition to the development of live viral vectors. Past successes within this department have been the development of Recombinase, the first licensed human vaccine derived by recombinant DNA technologies, and the use of live Varicella viruses as vectors. Another significant strength of this department is the application of recombinant yeast expression systems. Merck & Sharp & Dohme Research Laboratories provides an environment that enhances scientific growth and productivity and encourages scientific publications and attendance at scientific meetings.

We are seeking a highly motivated individual with a desire for a position of visibility and leadership. Relevant interest and experience in full length cDNA library construction, new viral vector applications and protein structure-function relationships are desirable. A Ph.D. in Molecular Biology/Biochemistry/Microbiology or the equivalent is required with at least four years of significant postdoctoral and academic/industrial experience.

Excellent salary and benefits program accompany this position at our modern research facilities in West Point, Pennsylvania. Please send your resume, including the names of three professional references to whom we may contact, and salary requirements in complete confidence to:

**Ad #1-C Research Personnel (W42-2)**

Merck & Sharp & Dohme Research Laboratories
West Point, PA 19486

Equal Opportunity/Affirmative Action Employer, M/F/H/V

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**RESEARCH SCIENTISTS**

Amgen has immediate opportunities for Research Scientists in Analytical Biochemistry to participate in the development of methods for protein characterization and protein stability using normal and reversed phase HPLC and other analytical techniques.

Qualified applicants for these positions must have a Ph.D. in Biochemistry or a related discipline with an emphasis in analytical methods and instrumentation.

Amgen is a dynamic and growing organization providing an exciting and innovative research environment as well as an attractive location northwest of Los Angeles. Amgen also offers an excellent compensation and benefits package.

Qualified candidates should send a c.v., including references, in confidence to:

Recruitment, Dept. #346
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer
**Senior Scientist**

CNS—Drug Discovery

The Psychopharmacology Section of the Experimental Therapeutics Department at Wyeth-Ayerst Research has an immediate opening for a Senior Scientist. The primary responsibilities of this position will be to conduct and direct research designed to assess the CNS activity of novel agents in the therapeutic target areas of anxiety, depression, psychosis, or antidepressants.

Candidates should possess a Ph.D. in the Life Sciences with 0-3 years laboratory experience or a BS/MS degree with an extensive neuroscience laboratory background. Experience in the in vivo psychopharmacological analysis of the mechanism of drug action and excellent communication skills are essential. Supervisory experience and knowledge of integrated computer systems are desired.

Wyeth-Ayerst is a division of Fortune 100 American Home Products Corporation and offers an excellent salary and benefits package along with opportunities for career advancement. Our state-of-the-art laboratory facilities are located along the Route 1 research corridor in Princeton, NJ and are convenient to the Philadelphia/New York metropolitan areas. Candidates who wish to join our research team should forward their curriculum vitae along with salary requirements to:

Personnel Manager, Dept. 2773

**Research Technicians**

The Biotechnology Division at the Amoco Research Center in Naperville is currently seeking applications for Research Technicians.

**Technician/Molecular Biology**

The selected candidate's research will focus on basic and applied aspects of microbial genetic engineering and gene expression. Applicants must have a Bachelor's or Master's degree in Molecular Biology or a related field and have experience in a molecular biology laboratory. Preference will be given to applicants with prior DNA sequencing, gene cloning and gene expression experience.

**Technician/Biochemistry**

The candidate's research area will emphasize basic and applied aspects of microbial and plant biochemistry. The position requires a Bachelor's or Master's degree in Biochemistry, Microbiology, Molecular Biology or a related field. Experience in analytical biochemistry, protein biochemistry and gene cloning are desirable.

Selected individuals will receive salaries commensurate with experience, a comprehensive benefits package and a congenial work environment. Please forward your resume, indicating position of interest, in complete confidence to:

Support Staff Recruiter
AMOCO RESEARCH CENTER
P.O. Box 400/Dept. FB129
Naperville, IL 60566

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**Program Project Coordinator**

Oversee program development including space and equipment needs and coordinate with the appropriate constituencies the preliminary design, construction and operation of Brandeis University's National Energy Center in complex systems research.

The Center is an exciting multi-million dollar project to develop an interdisciplinary research environment focusing on complex systems by integrating computer science and artificial intelligence, cognitive science, experimental physiology, and the neurosciences.

You will need a background in science and engineering, an understanding of computational and laboratory space requirements, an appropriate degree, and a demonstrated ability to deal effectively with personnel involved in the project including architects, contractors, scientists, administrators and the Department of Energy.

Please forward your resume and salary requirements to Dr. Arthur H. Reis, Jr., Associate Dean for Research and Planning, Brandeis University, P.O. Box 9410, Waltham, MA 02254.

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**President**

University of Maryland at Baltimore

The Regents of the University of Maryland System invite applications and nominations for the position of President of the University of Maryland at Baltimore.

The University of Maryland at Baltimore, established in 1807, is the "founding institution" and principal professional center of the University of Maryland System. The campus is located on 34 acres near Baltimore's Inner Harbor and includes presently six professional schools—medicine, dentistry, law, nursing, pharmacy, and social work and community planning—an interdisciplinary graduate school and a major medical center which includes the R.A. Cowley Shock Trauma Center.

The University, with an enrollment of 4,528 and a full-time faculty of 955, offers programs at the bachelor's, master's, specialist, and doctoral levels. Current research grants and contracts total annually approximately $81 million, and the institution's budget is $250 million. The affiliated medical system has an additional budget of more than $200 million.

The President is the chief executive officer of the institution and is responsible for the direction of all operations. The President also serves as a senior administrator in the University of Maryland System and reports to the Chancellor and the Regents of the II-Institution System.

Candidates should have earned a doctoral or equivalent professional degree from an accredited institution; be able to demonstrate outstanding accomplishments in their managerial and scholarly endeavors; have a strong history of leadership and possess a sound philosophy in educational policy.

Salary is competitive and commensurate with experience and qualifications.

Nominations and applications are currently being considered. If possible, nominations should include the current resume of the nominee, the names of three references, and any other supporting material, and should be sent to: Charles W. Tandy, c/o The Presidential Search Committee, Office of the Vice President, University of Maryland at Baltimore, 520 West Lombard St., Baltimore, MD 21201.

The University of Maryland at Baltimore is an Equal Opportunity/Affirmative Action Employer.
RESEARCH ASSISTANT PROFESSOR OF BIOCHEMISTRY IN MEDICINE position available at the University of Pennsylvania. Must be Ph.D. with experience in protein chemistry and/or molecular biology. Cell biology experience is helpful. Send curriculum vitae and bibliography to: Dr. J. A. Miller, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104. Applications are solicited from women researchers and members of minority groups. The position is available immediately. A full search committee will be appointed. The appointments will be negotiated by the Department with the University. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer. Applications should be sent to: Dr. J. A. Miller, Department of Biology, University of Pennsylvania, Philadelphia, PA 19104.

RESEARCH ENGINEER—Massachusetts-based research center is seeking a research engineer to perform non-destructive scientific instrumentation. The position is open to individuals with a Ph.D. in electrical engineering, mechanical engineering, or related fields. The successful candidate will be responsible for developing and implementing new instrumentation for non-destructive testing. The position is full-time, with a starting salary of $60,000, plus benefits. Applications should be sent to: Dr. John Smith, Director of Research, Massachusetts Research Center, 123 Research Drive, MA 01234.

RESEARCH ASSOCIATE/POSTDOCTORAL PROTOPLAST FUSION EXPERT—MOLLEcular BIOLOGIST

Full-time position available immediately for an individual with experience in protoplast fusion technology. Send curriculum vitae and the names and telephone numbers of three references to: Dr. John Doe, Department of Biology, University of California, 123 Main Street, CA 90123. The University of California is an Equal Opportunity Employer.

RESEARCH FACULTY POSITION IN RETROVIRUS PUBLIC HEALTH RESEARCH INSTITUTE

The Public Health Research Institute invites applications for a full-time faculty position at the rank of Assistant Professor. The position is associated with the Retrovirus Public Health Research Institute. Applicants must have a Ph.D. in virology or a related field. Applications should be sent to: Dr. John Smith, Director, Retrovirus Public Health Research Institute, 123 Research Drive, MA 01234.
**POSITIONS OPEN**

**VERTEBRATE BIOLOGIST**

The College of Arts and Sciences of Widener University invites applications for a tenure-track position as assistant professor of biology, beginning 1 September 1989. Ph.D. is required. Undergraduate education is the primary emphasis of the position. Teaching responsibility will include comparative anatomy, embryology, and participation in introductory human anatomy and physiology. Application deadline is 3 March 1989. Letters of application, complete curriculum vitae, and three letters of recommendation should be sent to: ROBERT MORRIS, Biology Department, Widener University, Chester, PA 19013.

**WILDLIFE EXTENSION.** Wildlife Extension Specialist and Research Position at Oregon State University (OSU). Establish extension programs on the wildlife resources of Oregon; communicate research findings and current knowledge to the public; and conduct workshops for extension agents and conservation organizations. Establish research program in an area of specialization; supervise graduate students; and write research proposals. Position funded at 75 FTE expandable to 1.0 FTE with tenure. Filing deadline 28 February 1989; position available 1 July 1989. Send cover letter, résumé, and five letters of reference to respondent: Dr. HOWARD HORTON, Head, Dept. of Fisheries and Wildlife, OSU, Corvallis, OR 97331. Call: 503-754-228 for information.

**ASSISTANTSHIPS**

GRADUATE RESEARCH IN MOLECULAR GENETICS, BIOANALYTICAL CHEMISTRY, TOXICOLOGICAL AND NUTRITIONAL BIOCHEMISTRY at Oregon State University. Research assistantships ($10,000 per year plus tuition) in an interactive, interdisciplinary department with state-of-the-art facilities are available for exceptional Ph.D. students. Research rotations are encouraged. Send inquiries to: Academic Programs Committee, Department of Agricultural Chemistry, Oregon State University, Corvallis, OR 97331. An Affirmative Action/Equal Opportunity Employer.

**SYMPOSIUM**

Announcing an International Symposium Sponsored by the U.S. Environmental Protection Agency GENETIC TOXICOLOGY OF COMPLEX MIXTURES 4—7 July 1989 L’Enfant Plaza Hotel, Washington, DC

Sessions include: Development and application of new methodologies applicable to research on complex environmental mixtures, complex mixtures of genotoxicants in air, water, and food; effects assessment. Speakers include: Hidetsuru Matsushita (Japan), Goran Lofroth (Sweden), Gernot Grimmer (West Germany), Marja Sorva and Kari Hemminki (Finland), P. H. M. Lohman and Martin van der Gaag (The Netherlands), John Paw (United Kingdom), Frederica Perera and Steven Tannenbaum (USA), Werner Lutz (Switzerland), and others.

Activities available: Fourth of July fireworks buffet cruise on the Potomac River, American bus tour of the Pennsylvania Amish Country and historical Baltimore and Philadelphia, conference banquet, proceedings volume, and poster sessions. Custom registration packages range in cost from $60 to $295 depending upon activities selected. 3 May 1989 deadline.

Registration information: Claire Wilson and Associates, P.O. Box 4899, Washington, DC 20008; Telephone: 202-332-9021.

**COURSE**

MARICULTURE: CULTURE OF MARINE INVERTEBRATES FOR RESEARCH PURPOSES. Designed to teach the basics of mariculture to advanced students, this course is scheduled for 21—27 May 1989. Tuition: $850 (includes room and board). Application deadline is 1 April 1989. For further information, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, extension 216.

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**Computational Chemist**

**Computer-Assisted Drug Design**


The successful candidate will join an experienced team of dedicated scientists, working with state-of-the-art hardware and software, who believe successful drug discovery depends on CADD.

The position involves extensive opportunities for collaboration with scientists at Parke-Davis and elsewhere, including specialists in NMR spectroscopy and x-ray crystallography. Additionally, while conducting molecular modeling approaches to support drug design projects, the candidate will be expected to help identify software needs and to develop and support new software tools targeted to meet these needs.

The qualified candidate will be a talented Ph.D-level scientist who has experience with modern computational and graphics techniques, particularly as applied to peptides, peptide mimetics and proteins. Applications expertise in molecular modeling, mechanics and dynamics is required. Strong interpersonal skills essential.

A solid background in physical organic chemistry, particularly molecular orbital theory, or QSAR, would be a plus. Programming experience and a knowledge of Fortran and C, mostly in conjunction with VAX-VMS and UNIX-based environments, is desirable.

We offer excellent compensation and benefits at our modern facilities adjacent to The University of Michigan campus. Interested candidates should send curriculum vitae and salary requirements in confidence to: Mr. T. Pomps, Human Resources Representative, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, Michigan 48105.

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**TOXICOLOGIST**

Pitman-Moore is a leading producer and supplier of products for animal health, growth and nutrition.

We are presently seeking an experienced TOXICOLOGIST to work in our Research & Development Laboratories in Terre Haute, Indiana. The successful candidate will have a Ph.D. in Toxicology, Biology, Pharmacology or a related field and at least two years of experience working in support of NADA or NDA filings. A strong knowledge of statistics is desirable. Board certification in Toxicology/Veterinary Toxicology strongly preferred.

This individual will be responsible for planning and implementing toxicity studies, interpreting results, and writing final reports. In addition, this person will handle Environmental Toxicology, supervise inhouse and contract studies and prepare documents for submission to the FDA as needed. Strong writing and oral presentation skills are essential for this position.

If you have demonstrated expertise in Regulatory Toxicology and would like to become a part of an expanding research & development effort with a growth oriented company, Pitman-Moore can offer you a competitive salary, excellent benefits and a dynamic work environment. We invite you to reply in confidence to: Mr. M. G. Ray, Pitman-Moore, Inc., P.O. Box 207, Department A-6, Terre Haute, Indiana 47808. All applicants must be prepared to document authorization to work in the U.S. Pitman-Moore is an Equal Opportunity/Affirmative Action Employer.

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**Marine Habitat**

**CULTURE OF MARINE INVERTEBRATES FOR RESEARCH PURPOSES**

- **Mariculture:** Learning to culture marine invertebrates for research purposes.
- **Course Details:** 21-27 May 1989.
- **Tuition:** $850 (includes room and board).
- **Application Deadline:** 1 April 1989.
- **Contact:** Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, extension 216.

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**Computational Chemist**

**Computer-Assisted Drug Design**

- **Position Information:** Immediate opening for a Computational Chemist.
- **Responsibilities:** Collaborate with scientists, use modern computational techniques, expertise in molecular modeling, mechanics, and dynamics.
- **Desired Skills:** Physical organic chemistry, molecular orbital theory, QSAR, programming experience in Fortran and C.
- **Benefits:** Excellent compensation, modern facilities.

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**TOXICOLOGIST**

- **Position Description:** Research & Development Laboratories in Terre Haute, Indiana.
- **Qualifications:** Ph.D. in Toxicology, Biology, Pharmacology, at least two years of experience, knowledge of statistics, board certification.
- **Responsibilities:** Plan and implement toxicity studies, interpret results, write reports.
- **Location:** Terre Haute, Indiana.

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**Marine Habitat**

- **Course:** Culture of marine invertebrates for research purposes.
- **Details:** 21-27 May 1989.
- **Tuition:** $850 (includes room and board).
- **Contact:** Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543.

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**Computational Chemist**

- **Position:** Computer-Assisted Drug Design Group opening.
- **Responsibilities:** Collaboration, molecular modeling, software development.
- **Qualifications:** Experienced in physical organic chemistry, molecular orbital theory, or QSAR.

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**TOXICOLOGIST**

- **Position:** Research & Development Laboratories in Terre Haute, Indiana.
- **Responsibilities:** Plan and implement toxicity studies, interpret results, write reports.
- **Qualifications:** Ph.D. in Toxicology, Biology, Pharmacology, at least two years of experience, knowledge of statistics, board certification.

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**Marine Habitat**

- **Course:** Culture of marine invertebrates for research purposes.
- **Details:** 21-27 May 1989.
- **Tuition:** $850 (includes room and board).
- **Contact:** Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543.
TRAINEESHIPS

TRAINEESHIPS: Medical Scientist Training Program offers $9000 stipends for studies leading to combined M.D./Ph.D. degrees in each of the basic biomedical sciences and molecular and cellular biology/medicine. Contact: Director, Medical Scientist Training Program, College of Graduate Studies, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

FELLOWSHIPS

FELLOWSHIPS-

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIPS IN BASIC MECHANISMS OF ENVIRONMENTAL MUTAGENESIS AND CARCINOGENESIS

Fellowships are available for research on the molecular, cellular, genetic, and developmental aspects of mammalian cells. The faculty include: Michael J. Banda (wound repair, proteins and proteinase inhibitors), James E. Cleaver (DNA repair genes), William F. Morgan (chromosome damage and repair, SCEs), John P. Murmane (DNA recombination), Robert B. Painter (DNA replication and repair), Roger A. Pedersen (early mammalian development, cell lineage, transgenic mice and homologous recombination), Matthias R. Wabl (molecular medicine), Howard R. Vande Woude (metastasis, phosphatase and phosphatidylinositol metabolism), and Sheldon Wolff (radiation genetics, cytogenetics).

Stipends are funded through a National Research Service training program. Appointments can begin 1 July 1989. The requirements are an U.S. citizenship or permanent residency and a Ph.D. degree or equivalent. Send resume, graduate transcript, statement of research interests, and three letters of recommendation by 15 March 1989 to: Dr. Zena Werb, Program Director, Laboratory of Radiobiology and Environmental Health, University of California, San Francisco, CA 94143-0750. An Equal Opportunity/Additional Action Employer.

SMITHSONIAN POSTDOCTORAL FELLOWSHIPS IN MOLECULAR EVOLUTION AND PLANT PHYSIOLOGY

Postdoctoral fellowships in molecular evolution and plant physiology are available for research to be conducted at two or more of the following Smithsonian Institution bureaus: National Museum of Natural History (Washington, D.C.); National Zoological Park (Washington, D.C.); Smithsonian Tropical Research Institute (Panama); and Smithsonian Environmental Research Center (Maryland). Stipends are $24,000 annually, including travel. Tenures are from 12 to 24 months. Deadline: 1 May 1989. Notification: 1 August 1989. For further information and application forms write: Office of Special Programs, Smithsonian Institution, Washington, D.C. 20560.

FELLOWSHIPS

PEW TEACHER–SCHOLAR FELLOWSHIPS

The University of Chicago and Washington University at St. Louis solicit applications from recent Ph.D. recipients for 2-year teaching-scholar fellowships in the biological sciences, biochemistry, chemistry, physics, mathematics and computer science, and geology and earth sciences, funded by The Pew Charitable Trusts. The successful applicants will spend one postdoctoral year of research (1989 to 1990) at either The University of Chicago or Washington University at St. Louis and a second postdoctoral year of research and teaching at one of ten distinguished Mid-Western Colleges (Beloit College, Carleton College, Grinnell College, Hope College, Kalamazoo College, Knox College, Macalester College, Rhodes College, St. Olaf College and Trinity University.) The aim of this program is to provide capable scientists and mathematicians with unique opportunities for development as potential faculty members in liberal arts colleges. Candidates must be U.S. Nationals or Permanent Residents with a commitment to excellence in teaching and research.

The fellowship includes an annual stipend of $25,000 plus benefits and a research and travel allowance. We encourage underrepresented minorities and women to apply. The deadline for receipt of completed applications is 15 March 1989. For information, write: Dr. Kathleen Parron, Program Director, Pew Mid-Western Science and Mathematics Consortium of Colleges and Universities, Macalester College, 1600 Grand Avenue, Saint Paul, MN 55105, or call: 612-696-6272.


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MICROPHYSIOLOGY

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We started with some important qualifications for developing a truly useful LC/MS product. For one, we're the only instrument vendor to make both LC and MS products. For another, we enhanced the acclaimed MAGIC* LC/MS interface technology making it much more practical and easier to use. So easy, in fact, that all you do is turn the system on, insert the probe, adjust the position of the capillary tip in the nebulizer and inject your sample. LC methodology or MS operation requires very little modification.

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Available as a complete system or as add-ons, the HP PB/LC/MS consists of an HP modular or integrated LC, an HP MS data system and an HP 5988A mass spectrometer equipped with the new HP PB interface. You can add all the most useful MS capabilities, too. Things like high mass, thermospray, NCI, FAB, DIP and much more. Add an HP GC and interface and you've got a versatile PB/LC/GC/MS system that can be switched between GC/MS and LC/MS in seconds.

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