**POSITIONS OPEN**

**ASSISTANT PROFESSOR IN LABORATORY VIROLOGY**

The Virology Division of the Department of Laboratory Medicine at the University of Washington School of Medicine is recruiting a Board-certified clinical pathologist as an assistant professor. Candidates should be prepared to develop procedural techniques in virology, including nucleic acid hybridization and DNA techniques to detect fastidious viruses such as HSV-2. The candidate should expect to establish an independently funded research program. Requirement is strong background in virology and established training background and expertise in research. In addition, responsibilities will include direction of a clinical service laboratory, residents, postdoctoral fellows, and medical, graduate, and undergraduate students. Please submit curriculum vitae to: Dr. Lawrence Corey, Department of Laboratory Medicine, D-556 Children's Hospital and Medical Center, ZC-10, Seattle, WA 98105. The University of Washington is an Affirmative Action/Equal Opportunity Employer.

**BIOPSYCHOLOGY**, University of Georgia, ASSISTANT PROFESSOR. Start September 1991. Applicants must be committed to excellence in teaching at undergraduate and graduate levels and show exceptional research potential in an area that is competitive for external funding. Responsibilities include teaching psychology courses, criminal justice and law, and biology. For application forms and further information contact the Department of Psychology, University of Georgia, Athens, GA 30602. Applications must be received by 30 March 1991. The University of Georgia is an Affirmative Action and Equal Opportunity Employer.

**BIOLOGY**. Marine biologist, ASSISTANT PROFESSOR, beginning fall semester 1991. Require Ph.D. with interest in field studies. Teach principles of biology course for nonmajors plus upper division classes: marine biology, oceanography, invertebrate zoology, and marine biology research methods, and participation in senior research program. Knowledge of computer applications in biology teaching and research would be helpful. Applications should arrive by 27 March 1991 for full consideration. Send letter stating philosophy along with curriculum vitae and arrange to have three letters of reference sent to: Dr. Michael Kolitsky, Chair, Department of Biological Sciences, California Lutheran University, 60 West Olsen Road, Thousand Oaks, CA 91360. An Equal Opportunity Employer.

**APPLICATIONS are invited for a 3-year nonrenewable-track appointment as an ASSISTANT PROFESSOR in the Department of Microbiology effective 1 July 1991. Duties involve teaching introductory biochemistry and sections of introductory biology. A significant interest in teaching and opportunity for research. Applicants should have a Ph.D. and be effective at teaching large introductory lecture courses. In accordance with the provisions of immigration requirements, this notice is directed to Canadian citizens and permanent residents. UBC encourages qualified women and minority applicants. Applicants should send their curriculum vitae and the names of three referees to: Dr. C. B. Spiegelman, Acting Head, Department of Microbiology, The University of British Columbia, #300, 6174 University Boulevard, Vancouver, British Columbia, Canada V6T 1W5. Applications should be received by 15 May 1991. The availability of this position is subject to final budgetary approval.

**ASSISTANT PROFESSOR POSITION IN CELLULAR NEUROBIOLOGY**, DEPARTMENT OF PSYCHOLOGY, UNIVERSITY OF CALIFORNIA, IRVINE

Applications are invited for a tenure-track position at the level of assistant professor in cellular neurobiology. Preference will be given to applicants who have demonstrated expertise in research areas of interest to the department. The Department of Psychology emphasizes interdisciplinary approaches to the study of neural plasticity and behavior. The current major research themes of the department are development, reorganization following injury, and learning and memory. Please submit, by 15 April 1991, curriculum vitae, description of research interests, and three confidential letters of recommendation to: Dr. Robert P. Killackey, Chair, Department of Psychology, University of California (UCI), Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employ. The department encourages female and minority applicants.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR, PHYSIOLOGY**

Tenure track, starting September 1991. Ph.D. required. Primary teaching in physiology and anatomy; must address qualifications for teaching general education and human physiology. Additional teaching in discipline. Other research areas: molecular genetics, biotechnology (eukaryotes), histology, cytology; involvement in undergraduate research. Women and minorities are encouraged to apply. Send letter, teaching philosophy statement, curriculum vitae, up to three publications, and have three reference letters sent to: Dr. Samuel I. Zeveloff, Chair, Department of Zoology, c/o Human Resource Department, Weber State University, Ogden, UT 84408-1016. Applications deadline: 29 March 1991. WSU is an Affirmative Action/Equal Opportunity Employer.

**ASSISTANT PROFESSOR (PH.D. OR EQUIVALENT REQUIRED) CELL BIOLOGY**

The Department of Biology at Western Washington University invites applications for a full-time, tenure-track faculty position in the area of cellular biology. The successful applicant will be expected to participate in the departmental teaching program and to pursue an active research program involving undergraduate and graduate (M.S.) students. This institution, located on Puget Sound near the foothills of the Cascade Mountains, is committed to excellence in teaching and research. Applicants should submit curriculum vitae, a statement of teaching and research interests, and three letters of reference to:

D. C. Williams, Ph.D., Chairman, Search Committee Department of Biology Western Washington University Bellingham, WA 98225

Western Washington University is an Equal Opportunity/Affirmative Action Employer.

Application deadline: 1 April 1991.

**ASSISTANT RESEARCH PROFESSOR ELECTROPHARMACOLOGY**

The Department of Pharmacology at the University of Kentucky College of Medicine is seeking candidates for the positions of assistant research professor. Candidates should have a Ph.D. degree and extensive postdoctoral experience with expertise in neuropharmacological mechanisms, using patch clamp approaches. Experience with tissue culture methods is also advantageous. The successful candidate would participate in both independent and collaborative research projects, in addition to their role in research training programs. Applicants should send their curriculum vitae and three letters of reference before 15 March 1991 to:

Dr. Philip Landfield Professor and Chair Department of Pharmacology University of Kentucky MS-309 Medical Center Lexington, KY 40536-0084

**ASSISTANT/ASSOCIATE PROFESSOR MOLECULAR VIROLOGIST**

The Department of Medical Microbiology and Immunology, University of California, Los Angeles (UCLA) School of Medicine, has a tenure-track faculty position available for a molecular virologist beginning the fall of 1991. Applications are invited from qualified candidates who have either a Ph.D. or M.D. with an active research program in a major area of molecular virology (such as regulation of gene splicing, gene transfer with virus vectors, immunoregulation of host resistance to viral infection, molecular genetics of viral pathogenesis). In addition to an outstanding research record, the applicant is expected to be dedicated to excellence in teaching medical students and graduate students. Closing date for applications is 1 May 1991.

Please send curriculum vitae, names of three references, and a brief summary of research interests and teaching accomplishments to: Dr. Blaine L. Beaman, Chair, Department of Medical Microbiology and Immunology, School of Medicine, University of California, Davis, CA 95616. The University of California is an Affirmative Action/Equal Opportunity Employer and we strongly encourage applications from persons who belong to minority or underrepresented groups.
POSITIONS OPEN

BIOTECHNOLOGY PROGRAM

ASSISTANT TO FULL PROFESSOR. Rank depends upon qualifications, position available in molecular immunology and/or molecular genetics to join a rapidly expanding program in this area. Appointment in the Division provides a very generous support package for postdoctoral fellows, technicians, equipment, and supplies. Exceptional candidates will receive a start-up grant at a level of $3 million per year. Individuals are expected to have established an extramurally funded research program prior to appointment. Applications from women and minorities are especially encouraged. Send curriculum vitae, three letters of recommendation, and a statement of research interests to: Samuel M. Cohen, M.D., Ph.D., Department of Pathology/Microbiology, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68198–3135. Telephone: 402-559-6388. An Equal Opportunity/Affirmative Action Employer.

THE UNIVERSITY OF THE WEST INDIES

ST. AUGUSTINE, TRINIDAD

Applications are invited for the following post in the Department of Chemistry, Faculty of Natural Sciences: SENIOR LECTURER/LECTURER IN PHYSICAL CHEMISTRY with expertise in spectroscopy. Annual salary range: Senior lecturer, TTS69,180 to $90,168. Term of appointment: 3 years; may be extended. Applications from women and minorities are especially encouraged. Current positions available in the Departments of Biochemistry, Microbiology, Medical Sciences, Electrical Engineering, and Psychology. Send curriculum vitae, names and addresses of three referees, and letters of application to: Campus Registrar, The University of the West Indies, St. Augustine, Trinidad, W.I. Further particulars sent on receipt of application.

MOLECULAR AND CELLULAR PHYSIOLOGY

THE UNIVERSITY OF IOWA

Applications are invited for faculty positions at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level from individuals with a record of high quality research in cell biology, developmental biology, neuroscience, endocrinology, or immunology. Experience in molecular biology, or electrophysiology complementing existing departmental programs in eukaryotic gene expression, intracellular signaling, or structural biology is desirable. Salary is competitive. Applications from women and minorities are especially encouraged. Please send curriculum vitae, names of three references, and letters of application to: Department of Anatomy and Neurobiology, University of Iowa, Iowa City, IA 52242. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

The University of Utah School of Medicine is seeking new faculty to participate in a major augmentation of research in molecular biology of cancer. A search committee is in place with representation from the Utah Regional Cancer Center; the Howard Hughes Medical Institute, the Human Molecular Biology and Genetics Program; the Department of Cellular, Viral, and Molecular Biology; the Department of Human Genetics; the Departments of Microbiology, Molecular Biology, and Immunology; and the Department of Radiology, Division of Radiation Oncology. We are seeking at least one established investigator (ASSISTANT, ASSOCIATE, or FULL PROFESSOR) and up to three more junior level investigators (INSTRUCTOR or ASSISTANT PROFESSOR). Potential for faculty appointment includes holding a joint position in the Department of Radiology, Division of Radiation Oncology, as chief of its Section of Experimental Oncology with the possibility of joint appointment in the Department of Surgery, Department of Radiation Oncology, and the Department of Radiation Oncology, Division of Radiation Oncology. We are seeking at least one established investigator (ASSISTANT, ASSOCIATE, or FULL PROFESSOR) and up to three more junior level investigators (INSTRUCTOR or ASSISTANT PROFESSOR). The University of Utah School of Medicine, 1777 East Cliffs Drive, Salt Lake City, UT 84132. The recruitment will remain open until 1 May 1991. The University of Utah is an Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR

New position, open now or later January 1991. Experienced faculty member, Ph.D. in biology with research experience, expected to do some teaching of biology research. Expertise in cell biology and biochemistry is required. Rank will be a mentor and role model for funded undergraduate science minor students on training grants; serve as their research mentor. Duties: develop new course; serve on graduate students. Experience in small college setting desirable. Send letter stating interests, complete résumé, and names of referees to: John Frei, Associate Professor, Biological and Biomedical Sciences, Barry University, Miami, FL 33161.

ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY. Ph.D. in molecular biology required. Primarily teaching position, enzyme, nucleotide, and nucleic acid biochemistry to freshmen medical students. Assist in weekly laboratories. Emphasis on teaching excellence. Research encouraged. Rank and salary commensurate with qualifications. All qualified candidates are encouraged to apply. Start July. Send by 25 March 1991 to: John Frei, Associate Professor, Biological and Biomedical Sciences, Barry University, Miami, FL 33161.

BIOLOGY. MacMurray College, a private United Methodist liberal arts institution, seeks an ASSISTANT OR ASSOCIATE PROFESSOR in biology. Probable department chair. Tenure track. Effective date: 15 August 1991. Ph.D. required. Experience in the following areas required: vertebrate zoology and human anatomy and physiology. Other areas of expertise desired: general biology, botany, animal behavior, parasitology, and field biology. Primarily a teaching position with degree and experience. Please send letter of application, curriculum vitae, teaching philosophy, graduate transcript, and names of three references to: Dr. Douglas Rushing, Head, Department of Biochemistry and Biology, MacMurray College of Osteopathic Medicine, 2105 Independence Boulevard, Kansas City, MO 64124. Telephone: 816-283-2205.

EXECUTIVE DIRECTOR. The Barbara Davis Center for Childhood Diabetes at the University of Colorado Health Sciences Center is seeking applicants for the position of executive director. This person will report to the dean of the School of Medicine and will be responsible for development of both clinical and research programs. Primary academic appointment will be in the Department of Pediatrics. Responsibilities would include extensive experience with clinical and research aspects of childhood-onset diabetes. Administrative experience is also required. The position is open to: Douglas Jones, Jr., M.D., Professor and Chairman, Department of Pediatrics (B065), The Children’s Hospital, 1095, 1105 East 23rd Avenue, Denver, CO 80205, before 15 March 1991, or by 30 April 1991. The University of Colorado Health Sciences Center is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

NATIONAL INSTITUTE ON AGING, NIH

RESEARCH PROGRAM DIRECTOR

The Biology of Aging Program of the National Institute on Aging (NIA) seeks a molecular endocrinologist to administer its Endocrinology Program. Activities include planning and implementing research initiatives through workshops and program announcements, communicating research results to Congress and the public, and administering oversight of proposals and grants. A background and experience in molecular biology is essential; familiarity with aging and NIH is desirable. Individuals may be hired through the Civil Service or Public Health Service career ladder processes. Salary is at salaries commensurate with qualifications and experience. Physicians may be eligible for bonus of up to $20,000. To apply, send curriculum vitae, letters of interest, and salary expectations to: Dr. Charles W. Frank, Director, Biology of Aging Program, 11 Center Drive (Bldg. 8), Room 5Q15, Bethesda, MD 20892. A detailed position description is available upon request and should be submitted by 29 March 1991. Call Ms. Howard at 301-496-6347 about application procedures, salaries, and benefits. Call Dr. Huber Warner at 301-496-6402 above scientific and technical qualifications. U.S. citizens required. NIH is an Equal Opportunity Employer.

POSITIONS OPEN

ASSOCIATE/FULL PROFESSOR

Department of Cell Biology and Anatomy

UNIVERSITY OF MIAMI SCHOOL OF MEDICINE

Applications for tenure-track faculty positions are being sought from individuals with record and/or demonstrated interest in cell and molecular biology. Those working in the area of cell surfaces and cell interactions in neurobiology or cancer biology are particularly encouraged to apply. Ample workspace, start-up funds, and a competitive salary will be provided. Applicants should send curriculum vitae, brief summary of research interests, and names of three referees to: Dr. William Frei, Chairman, Department of Cell Biology and Anatomy, University of Miami School of Medicine, P.O. Box 016900, CH 691, Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

CHAIRMAN BIOCHEMISTRY AND MOLECULAR BIOLOGY

The Texas Tech University Health Sciences Center School of Medicine invites applications for the position of Chairman of the Department of Biochemistry and Molecular Biology. Applicants should have a distinguished record in research, an accomplished ability to train graduate students, experience in grant writing, and postdoctoral fellows; and a desire to exercise strong and innovative leadership in building the department to a level of national prominence. Preference will be given to candidates who have a record of consistent research productivity and support through extramural sources, and have served on graduate review and evaluation committees. Interested applicants should send their curriculum vitae, synopsis of current and planned research, the names and addresses of three referees, and a brief statement of the position to: Dr. Harry Weidatz, Chairman, Search Committee, Texas Tech University Health Sciences Center, Department of Cell Biology and Anatomy, Lubbock, TX 79430. The search committee will begin folder review in June and will continue the search process until a chairperson is selected. Texas Tech University Health Sciences Center is an Equal Opportunity/Affirmative Action Institution.

CASE WESTERN RESERVE UNIVERSITY

CHAIRPERSON DEPARTMENT OF EPIDEMIOLOGY AND BIOSTATISTICS

Case Western Reserve University School of Medicine invites applications and nominations for the position of chairperson in the Department of Epidemiology and Biostatistics. The School considers this search as central to its efforts to develop a world-class graduate program in epidemiology and biostatistics. The School is especially interested in maintaining a broad perspective in the future development of the department. Candidates should have a distinguished background in either public health science or biostatistics and experience in epidemiology, biostatistics, and computer science. The School also considers the prospect of the chairperson to develop and maintain strong ties between the departments of Epidemiology and Biostatistics and the Biostatistics Search Committee, Department of Medicine, University Hospitals of Cleveland, 2074 Abington Road, Cleveland, OH 44106. Interested candidates are invited to contact: Dr. A. F. Mah- mer, Department Chair, University Hospitals of Cleveland, Channing Laboratory, 2074 Abington Road, Cleveland, OH 44106. Reserve University is an Equal Opportunity/Affirmative Action Employer.
DEAN, UNIVERSITY OF MARYLAND DENTAL SCHOOL

Applications and nominations are invited for the position of dean, University of Maryland Dental School. The Dental School is a part of the University of Maryland School of Medicine campus, which also includes the Schools of Nursing, Medicine, Pharmaceutical Sciences, Law, and Social Work as well as the Graduate School. The dean is responsible to the president of the University of Maryland campus. The successful candidate will be a nationally recognized scholar, eligible for appointment as full professor with tenure, and hold a dental degree and have the training and expertise necessary for the administration of all educational, clinical, research, and community health programs of the Dental School. Applicants and nominations should be received within 30 days of publication. A letter of intent, along with curriculum vitae, should be sent to: Dr. Charles Leonard, Chairman, Dean’s Search Committee, Department of Biochemistry, Dental School, 666 West Baltimore Street, Baltimore, MD 21201.

The Dental School is an Affirmative Action/Equal Opportunity Employer, M/F/H/V.

DIRECTOR, HISTOCOMPATIBILITY TESTING LABORATORY

The Cleveland Clinic Foundation is seeking an experienced histo-bloodgroup technologist to head the Histocompatibility Laboratory. The laboratory supports multiple renal and non-renal transplant programs in northeastern Ohio and western Pennsylvania. Applicants must have a Ph.D. or M.D. degree and must be Board-certified in clinical immunology. Preference will be given to individuals who enjoy working in a multi-cultural environment. Salary and benefits are commensurate with experience. Please send curriculum vitae to: Gerald A. Hoeltge, M.D., Chairman, Department of Blood Bank Services, Cleveland Clinic Foundation, One Clinic Center, 9500 Euclid Avenue, Cleveland, OH 44195-5133.

The Department of Pathology at the University of Texas Medical Branch (UTMB) at Galveston invites applications for an opportunity to head the tenured-track faculty position as DIRECTOR, Clinical Microbiology Laboratory. UTMB employs 8400 people and consists of four schools, seven hospitals, and two research institutes. Applicants should have a Ph.D. or M.D. degree and be Board-certified in clinical microbiology. The department is seeking an individual with a strong record of scientific achievement and leadership in clinical microbiology. Preference will be given to applicants who are using modern approaches in the study of pathogenic microorganisms and their effect on the developing and the aged. The successful candidate will be the head of the clinical microbiology laboratory, as well as the American Board of Medical Microbiology approved postdoctoral program. Other responsibilities will include the teaching of laboratory medicine to medical students and to the UTMB graduate students. A strong, independent research program and interactions with other faculty investigating the pathology and immunobiology of infectious diseases is anticipated. Interested applicants should send detailed curriculum vitae, an outline of current and clinical research interests, and three letters of reference to: Dr. David H. Walker, M.D., Chairman, Department of Pathology, The University of Texas Medical Branch, Galveston, TX 77550. UTMB is an Equal Opportunity/M/F/V/H/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.

The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), is seeking an ELEC- TRONIC PHYSICS/ACTOR in the Richard D. Russell Agricultural Research Center, Athens, Georgia. The research involves a broad range of microwave measurement techniques. The research program includes the design, fabrication, testing, and evaluation of microwave devices and components. The research also involves new techniques and methods of measurement must be developed. Experience in agricultural product moisture measurement by microwave techniques is required. Salary is commensurate with experience ($52,406 to $68,129). U.S. citizenship is required. For information on the research program or position contact Dr. Eugene Nelson, 404-443-3101. Information on application procedures and forms, contact: Susan Jones, 404-546-3426. USDA/ARS is an Equal Opportunity Employer.

MANAGER, TOXICOLOGY AND METABOLISM


DEPARTMENT OF VETERANS AFFAIRS VETERANS HEALTH SERVICES AND RESEARCH REGISTRATION HEALTH SCIENCE SPECIALIST

VA’s Office of Research and Development, Medical Research Service, is seeking applicants for the position of health science specialist under the Intergovernmental Personnel Act (IPA). Under the IPA, the health science specialist would remain a faculty member at his/her current university and VA would reimburse the University for up to a maximum of 20% effort, with the possibility of extension. Responsibilities include participation in the development of policy and procedural directives, analysis of research proposals, preparation of research proposals and scientific review boards, supervision and/or preparation of research summary statements, arrangement and participation in site visits, analysis of site visits and preparation of program and budgetary data related to scientific reviews, results, and trends. Applicants should possess excellent communication and some research and administrative experience.

QUALIFIED applicants are invited to send curriculum vitae, the names, addresses, and telephone numbers of three references by 30 March 1991 to: Richard J. Greene, M.D., Assistant Chief Medical Director for Research and Development (142), Department of Veterans Affairs, 810 Vermont Avenue, N.W., Washington, DC 20420. Further information may be obtained from the same address or by calling: Dr. Leonard Fry, Chair, Division of Research, Phone 601-223-8365, or the Recruitment and Examination Division, VA Central Office, 1-800-368-5629. Equal Opportunity Employer.

NEUROSCIENTISTS, CELL AND MOLECULAR BIOLOGISTS. Tenure-track FACULTY POSITIONS in Neurobiology and Cell Biology. The University of Michigan is conducting a search for faculty in the areas of neurosciences, cell and molecular biology. Rank and salary commensurate with experience. Research interests include development of curricula vitae, statement of research interests, and the names and addresses of three references to: Dr. James C. Story, Chairman, Department of Cell and Molecular Biology, The University of Michigan Medical College, 1005 D. B. Todd Boulevard, Nashville, TN 37208 by 1 May 1991. An Equal Opportunity/Affirmative Action Employer.

Applications are invited for two rewarding tenure-track FACULTY POSITIONS in the Department of Pathology of the University of Texas Medical Branch (UTMB) at Galveston. UTMB employs 8400 people and consists of four schools, seven hospitals, and two research institutes. Applicants should have a Ph.D. or M.D. degree and a minimum of 2 years of postdoctoral research experience. The department is seeking individuals with a strong record of scientific achievement. Applicants are sought who demonstrate the scientific approaches to studies in two areas: (i) bacterial or viral pathogenesis and (ii) cellular immunology. Expertise in the areas of molecular biology and/or biochemistry is essential. Duties will include developing and maintaining a strong independent research program, and applicants will be expected to actively seek extramural funding. Other duties will include the teaching of both medical and graduate students. The Department of Pathology includes basic and clinical scientists who represent a diverse mixture of research areas including the pathology and immunobiology of infectious diseases, toxicology, immunology, and cellular biology. The successful candidate will be an outstanding independent investigator and a visible proponent of the research mission of the department. The University of Texas Medical Branch, Galveston, TX 77550. UTMB is an Equal Opportunity/M/F/V/H/Affirmative Action Employer. UTMB hires only individuals authorized to work in the United States.
POSITIONS OPEN

PHYSICIAN-SCIENTIST: Sought for TENURE-TRACK POSITION in the Department of Psychiatry, Indiana University School of Medicine, funded through VA Medical Center and Institute of Psychiatric Research. Teaching appointment anticipated at associate/professor level. Substantial research time available with laboratory facilities and basic support provided. Track record of funding biological psychiatry/neurobiology and Board-certification in psychiatry, or equivalent, required. The Institute of Psychiatric Research has particular laboratory interest in the areas of receptor physiology, cellular neuroepidemiology, developmental neurobiology, and animal behavior genetics. Activation of a joint venture VA Medical Center—School of Medicine PET Center expected in spring of 1992.

Send curriculum vitae to: Hugh C. Hendrie, M.B., Ch.B., Chairman of Department of Psychiatry and Albert E. Sterne Professor, Indiana University School of Medicine, 554 Clinical Drive, Indianapolis, IN 46202—5110. Telephone: 317-274-4012.

Indiana University is an Equal Opportunity/Affirmative Action Employer and Contractor, M/F.

RETINAL CIRCUITRY FACULTY POSITIONS

The Department of Anatomy of the University of Pennsylvania invites applications for two positions at the rank of RESEARCH ASSISTANT PROFESSOR: (i) computational neuroscientist to collaborate on computations arising from studies of mammalian retinal circuitry, and (ii) anatomist experienced in investigations of mammalian retinal circuitry willing and able to collaborate on computations. Space can be provided, but independent support is essential. Send curriculum vitae, statement of current research interests, and three references to: Professor Peter Sterling, Retinal Circuitry Search, Department of Anatomy, University of Pennsylvania, Philadelphia, PA 19104—6058. Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL STUDIES

Gettysburg College invites applications for a TENURE-TRACK POSITION in environmental studies to commence with the 1991—92 academic year. Candidates should have a Ph.D. degree in one of the natural sciences and be affiliated with the department most closely allied with her/his field of expertise. Initial responsibilities will include teaching courses in environmental science. In addition, the successful applicant will chair an Environmental Studies Committee and direct its efforts in developing an environmental studies curriculum, be responsible for preparing the annual budget, and participate in writing grant proposals for environmental studies. Gettysburg College is a highly selective liberal arts college and is located 1½ hours from the Washington/Dulles/Philadelphia area. Gettysburg College is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Submit letter of application, curriculum vitae, and three letters of recommendation to: A. R. Cavallaro, Chair, Search Committee, Gettysburg College, Gettysburg, PA 17325. Review of completed applications will begin 15 March 1991 and continue until the position is filled.

NEUROSCIENCE

HARVARD MEDICAL SCHOOL

MASSACHUSETTS GENERAL HOSPITAL

Several JUNIOR FACULTY POSITIONS are available in the Department of Neurobiology at Harvard Medical School and also in the Neuroscience Center at the Massachusetts General Hospital (MGH). We are interested in a wide range of subjects ranging from molecular structure to neuronal mechanisms underlying higher integrative functions. At the MGH Center, special consideration will be given to individuals whose work has direct bearing on human neurological and psychiatric disorders. However, all successful candidates will be expected to participate fully in the Harvard neuroscience community and become involved in training medical students, graduate students, and postdoctoral fellows. Applicants should submit their curriculum vitae, a brief statement of current research (including reprints, if available) and future plans, and the names of three individuals who might write on their behalf to: Gerald D. Fischbach, Chairman, Neuroscience Search Committee, Harvard Medical School, 220 Longwood Avenue, Building B2, Room 420, Boston, MA 02115. Women and minority candidates are encouraged to apply. Harvard Medical School and the Massachusetts General Hospital are Affirmative Action(Equal Opportunity Employers).

MARCH 1991
POSITION AVAILABLE

DIRECTOR, NATIONAL INSTITUTE OF MENTAL HEALTH,
ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, National Institute of Mental Health (NIMH).

The person selected for this position (located in Rockville, Maryland) will receive a career appointment to the Senior Executive Service (SES). The 1991 salary range for this position is $87,000 to $108,300 (or $128,300 for physicians). SES members are also eligible for performance awards of 5 to 20 percent of base salary. Alternatively, this position may also be filled through an appointment in the Public Health Service Commissioned Corps.

The National Institute of Mental Health provides leadership, policies, and goals for the Federal effort to increase knowledge and develop effective strategies to deal with health problems and issues in the prevention and treatment of mental illness and in the promotion of mental health. Its programs include intramural and extramural research, the administration of training programs to meet national mental health manpower needs, and the provision of technical services to States and communities. The Director manages a staff of 1,000 and a budget of $590 million, including over $450 million for research.

Candidates must have progressively responsible experience in developing, administering, and evaluating programs relating to mental disorders or mental health, including programs of research, training, services, or prevention. Candidates must also demonstrate competence to assume leadership in planning, staffing, directing, coordinating, and allocating resources, and other responsibilities associated with executive leadership of a major national program. Minimum education requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's or higher degree in an academic field relating to the health sciences.

Further information about the position and qualification requirements may be obtained by contacting Ms. Carmen Garcia, on (301) 443-5030. An Application for Federal Employment, SF 171, accompanied by a current curriculum vitae and bibliography are to be submitted to Ms. Garcia at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Applications will be accepted without the SF 171 provided that the SF 171 is submitted upon request. Complete applications (including the SF 171) must be postmarked by the closing date of the vacancy announcement, March 29, 1991. Late applications will not be accepted.

Applications from women and minority group members are solicited.

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

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STERLING RESEARCH GROUP

AS the worldwide pharmaceutical research organization of Sterling Drug Inc., we strive to continually foster an environment where creativity, imagination and innovation flourish—where the foundation of cooperation and support enables you to explore new avenues.

ONCOLOGY/MOLECULAR BIOLOGY RESEARCH SCIENTIST

The Sterling Research Group is presently seeking a Molecular Biologist/Protein Biochemist. Position responsibilities include construction and expression of vectors containing growth factor receptors. Experience in enzyme assays and protein purification is desirable. Qualified candidates will possess a B.S. degree in Biology and two plus years’ related experience, Master’s degree or equivalent. Reference #RS-60.

DIAGNOSTIC IMAGING PRINCIPAL RESEARCH INVESTIGATOR

The successful candidate will serve primarily as the liaison between Sterling Research Group and the Center for Imaging and Pharmaceutical Research in the Department of Radiology at the Massachusetts General Hospital in coordinating discovery efforts for imaging agents. Candidates should possess a Ph. D. in life or physical science and 3-5 years’ experience beyond the postdoctoral level in discovery of novel imaging agents. Prior pharmaceutical experience is preferred, with practical experience in either MRI or ultrasound. Excellent interpersonal skills are necessary. This position is located at the Center for Imaging and Pharmaceutical Research in Boston. Reference #RS-06-91.

INFLAMMATION RESEARCH

We are expanding our Inflammation Program, and now have several key Research Investigation opportunities available:

Articular cartilage degeneration: Apply biochemical/molecular biological techniques to determine the relative importance of molecular targets for the treatment of articular cartilage diseases, and to demonstrate the ability of new molecules active against selected molecular targets to attenuate articular cartilage degradation.

In vivo biochemistry: Develop novel methods to demonstrate that target enzymes or receptors are inhibited in vivo. Current projects include metalloproteases and cytokines.

Monocytes in the central nervous system: Explore the therapeutic potential of monocyte targets within the central nervous system. Current molecular targets include neurotransmitters that act on glia and cytokines released by glia.

Candidates with experience in cell biology, molecular biology, biochemistry, joint physiology or in vivo biochemistry are encouraged to apply. The minimum requirements for these positions are a relevant Ph.D., expertise in one of the areas identified above, and the desire to join a team with a dynamic and innovative approach to inflammation. Reference #RS-99.

You will discover that we offer a very competitive salary and benefits package. The Sterling Research Group will be relocating to Upper Providence Township, Pennsylvania, in approximately 1993, and invites you to share in the opportunities now and in the future. Please indicate reference number and submit CV in confidence to: A.H. Murphy, Human Resources, Sterling Research Group, 81 Columbia Turnpike, Rensselaer, NY 12144. EOE M/F/H/V.

STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
A Subsidiary of Eastman Kodak Company
SANDOZ AGRO LTD. wishes to recruit an

ENVIRONMENTAL TOXICOLOGY MANAGER

to work with SANDOZ CROP PROTECTION CORP., its subsidiary in Des Plaines, Chicago, USA.
The successful candidate, who will report to the Director of Analytical Sciences and Formulations, will be responsible for:

- Managing the technical and scientific staff and directing the activities of the Environmental Toxicology/Chemistry Group;
- Developing test programs for new product registrations, existing product support and similar areas;
- Coordinating internal and external projects and technical activities;
- Providing technical support and expertise both internally and to external partners.

The successful candidate will have a Ph.D. in one of the physical and/or biological sciences and several years' experience in Ecotoxicology, Environmental Chemistry or a related area. Good management skills, a knowledge of the US-EPA or similar regulations, and experience in dealing with regulatory agencies are essential.

Remuneration and other benefits will be to the standard normally associated with a multinational corporation.

Applications should be made in writing to:
Sandoz Agro Ltd.
Personnel Department
Reference 1807
P.O. Box
CH 4002 Basle
Switzerland

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MILES Research Center

Your Talent Can Take You Miles.

At Miles Pharmaceutical Division, you'll be involved in one of our four major research groups working on a broad range of leading-edge medical research projects.

As a worldwide pharmaceutical leader and research resource for Bayer AG, we can offer you the opportunity to take advantage of the vast resources, scientific challenges, high visibility and excellent growth potential you'll need to go the distance. Get a head start by applying for one of the following research positions:

PROTEIN BIOCHEMISTRY—BS/MS

We're seeking professionals at both the Bachelor's and Master's level with a minimum of 2-3 years' laboratory experience in enzymology and/or protein expression, purification and characterization. You'll be contributing to ongoing projects involving natural and recombinant biologicals. Additionally, experience in either conventional chromatography methods, HPLC, electrophoresis and protein expression in E. coli, is desirable.

PROTEIN BIOCHEMISTRY—Ph.D

You'll be involved in research relating to the isolation of biologically active natural and recombinant proteins and the development of assay procedures for use in structure-function studies. To qualify, you should have a Ph.D. in biochemistry and possess extensive experience in protein purification and characterization techniques.

INFLAMMATION—BS/MS

We're seeking a professional with a BS/MS to conduct studies to identify and elucidate mediators of inflammation. Applicants must have 2-3 years' experience in biology, pharmacology, or a related discipline which includes demonstrated proficiency in handling small animals. Additional experience in leukocyte preparation, immune assays and electrophoretic techniques is also highly desirable.

We also offer an attractive compensation and generous benefits package. Resumes including salary history should be forwarded in confidence to: Department CEC, Miles Pharmaceutical, 400 Morgan Lane, West Haven, CT 06516.

An Equal Opportunity Employer M/F/H/V
You’ve written a book. You’re proud of it. And you’d like your peers to know about it.

How to tell them?

Insist that your publisher advertise it in the world’s most widely read scientific journal: SCIENCE.

The circulation of SCIENCE is more than three times that of its nearest competition. It’s the prestige publication among peer review journals. And it reaches the influential scientists and decision-makers you had in mind when you wrote your book.

If your book was worth writing, it’s worth promoting. And selling. And there’s no better way to do both than through the pages of the pre-eminent publication in the field: SCIENCE.
Director of Environmental and Occupational Medicine

University of Pittsburgh

The Department of Environmental and Occupational Health of the University of Pittsburgh seeks an outstanding candidate to serve as its Director of Environmental and Occupational Medicine. Depending upon qualifications, the initial appointment will be at the Associate or Full Professor level.

The Division is the focus of preventive and clinical activities in Environmental and Occupational Medicine at the University of Pittsburgh Medical Center (UPMC). The successful candidate will be the Director of an accredited residency program which is integrated with other training programs at UPMC.

The Department of Environmental and Occupational Health, of which the Division is part, is a newly established and expanding Department charged with providing mechanistic information necessary for the identification, prevention and assessment of health risks resulting from environmental and occupational exposures.

The successful candidate must have an M.D. or equivalent degree and be Board-certified or Board-eligible in Occupational Medicine. Applicant must have a record of achievements in research and practice of Environmental and Occupational Health as well as possess demonstrated administrative abilities.

Nominations, applications and supporting documentation should be sent to Carol K. Redmond, Sc.D., Committee Chair, Department of Biostatistics, Graduate School of Public Health, University of Pittsburgh, 130 DeSoto Street, Pittsburgh, PA 15261.

THE UNIVERSITY OF PITTSBURGH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

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CHAIR, DEPARTMENT OF BIOCHEMISTRY and DIRECTOR OF FELS INSTITUTE FOR MOLECULAR BIOLOGY AND CANCER RESEARCH

TEMPLE UNIVERSITY SCHOOL OF MEDICINE

A search for the combined position of the Chair of the Department of Biochemistry and Molecular Biology and the Director of the Fels Institute for Molecular Biology and Cancer Research has been initiated. Candidates should have proven leadership ability and must be nationally recognized for their scientific contributions to biochemistry and molecular biology with special interest in cancer research. The successful candidate must have demonstrated interest and ability in effective teaching and the capability of providing the administrative leadership to continue and extend the Department's and the Institute's established strengths in research, teaching and service. An excellent opportunity exists to expand an already strong department which now will merge with the Fels Institute for Molecular Biology and Cancer Research. The Department and the Institute also have a close working relationship to the Comprehensive Cancer Center and the Thrombosis Research Center.

Applications will be accepted until May 1, 1991 and should include curriculum vitae, a summary of current research, a description of teaching and administrative experience, and the names, addresses and telephone numbers of three or more references. Mail applications to:

Robert W. Colman, M.D.
Chair of the Search Committee
c/o Thrombosis Research Center
Temple University School of Medicine
3400 North Broad Street
Philadelphia, PA 19140

Temple University is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and members of minority groups.

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Intramural Research Resources
National Center for Research Resources
National Institutes of Health

Deputy Director

The National Center for Research Resources (NCRR) is seeking applicants for the position of Deputy Director for Intramural Research Resources (DDIRR). This position is located in Bethesda, Maryland and is a Senior Executive Service position with a salary range from $67,000 to $100,500 per annum commensurate with qualifications. Additional salary incentives are available should a physician be selected for this position.

The Deputy Director for Intramural Research Resources is responsible for planning, directing and evaluating the Center's intramural programs. Theses programs provide centralized support services for the NIH in the following areas: (1) applications of engineering, mathematics, physics, and the physical sciences to the solutions of problems in medicine and biology; (2) professional and technical support services related to the provision, care and use of animals, along with research consultation and disease control services; (3) comprehensive research library support to NIH scientific, clinical and management programs through an extensive collection of books and journals, access to computer information banks, and staff assistance and consultation in information handling and retrieval; and (4) a visual communications program involving design, graphics, medical illustrations, photography and video recordings for documentation for medical research programs and data for all NIH information dissemination needs.

The Intramural Research Resources component, NCRR, is responsible for providing centralized engineering, scientific information, and technical services to all institutes and divisions of NIH and to the intramural programs of the National Institute of Mental Health, the Center for Biologics Evaluation and Research, the Food and Drug Administration, and the National Institute on Alcohol Abuse and Alcoholism in support of biomedical research. The programs are: (1) production, procurement, and holding of animals used in medical research projects, including Interagency Research Animal Committee (IRAC); (2) engineering design and fabrication of biomedical research instrumentation systems and equipment; (3) a multimedia visual communication program providing medical arts, fine and applied arts, and still and motion picture photography services; and (4) comprehensive research library support to the NIH scientific, clinical and management programs through an extensive collection of books and journals, access to computer information banks, and staff assistance and consultation in information handling and retrieval. The NCRR includes a total of 550 employees with a total budget of approximately $336 million. The intramural division has approximately 450 employees and a budget of $70 million. Applicants for Senior Executive Service position must have a doctoral level degree or equivalent in one of the biomedical sciences. Send applications to:

Ms. Pathenia Wiggins
National Center for Research Resources
Bldg. 31, Room 2B09
9000 Rockville Pike
Bethesda, MD 20892

For an application and a copy of the requirements, contact Ms. Wiggins at NCRR on (301) 496-1524.

Deadline for applications is March 18, 1991.

Public Health Service Commissioned Officers interested in performing the duties of the position within the Commissioned Corps may submit a resume to the above address.

NIH is an Equal Opportunity Employer
Drug Metabolism Opportunities

Searle, a leader in pharmaceutical research, development and marketing has excellent opportunities for Ph.D. level scientists in our Department of Drug Metabolism.

SECTION HEAD
The candidate we select will provide a leadership role for the Department of Drug Metabolism. The section has responsibility for novel method development of bioanalytical assays utilizing HPLC, GC, HPLC-MS, RIA, and Robotics, as well as identification and reduction to practice state-of-the-art technologies for bioanalytical assays and metabolism studies.

We require a Ph.D. in Chemistry or Biochemistry and seven years of applicable experience in drug metabolism and bioanalytical method development including mass spectrometry, HPLC, GC, laboratory automation and immunoassays. Demonstrated managerial skills are required.

SR. RESEARCH INVESTIGATOR
The candidate for this position will use state-of-the-art technologies including robotics and analytical mass spectrometry in the implementation, modification and validation of assays of drugs and test articles. This position will be responsible the training and supervision of a group of five analytical chemists to support preclinical and clinical studies. The individual will also provide key collaborative interface with Drug Metabolism scientists, Clinical Investigators and contract laboratory personnel.

POST DOCTORAL ASSOCIATE
The candidate for this position will conduct research in pharmacokinetics and mechanisms of drug absorption. A Ph.D. in pharmaceutical science or related area is required. Please include 3 letters of recommendation.

For consideration, please send your resume in confidence to: Searle, Human Resources, Dept PB12, 4901 Searle Parkway, Skokie, IL 60077. An equal opportunity employer M/F/H.

DEPARTMENT OF MOLECULAR BIOLOGY
UMDNJ-SCHOOL OF OSTEOPATHIC MEDICINE

The School of Osteopathic Medicine of the University of Medicine and Dentistry of New Jersey is reopening its search for a Chairperson for the Department of Molecular Biology. We are seeking applications and nominations of distinguished academic scientists dedicated to educational programs of high quality and having administrative experience to serve as the founding departmental Chairperson. The new department consists of five faculty and is expected to grow to fifteen faculty under the leadership of the new Chairperson. The present faculty are young and vigorous and encompass research programs in muscle protein biochemistry, cellular DNA repair processes, cell motility and mechanisms of signal transduction. The department will have responsibility for the instruction of medical students in the disciplines of Biochemistry, Microbiology, Genetics and Pharmacology.

Although we are seeking individuals with research interests in any area of modern Molecular Biology, we are particularly emphasizing recruitment of individuals with research interests in mechanisms of oncogene expression, control of growth factor receptors and molecular immunology. Appointment will be made at the Professor level with a starting date as early as September 1, 1991. Letters of application, curriculum vitae and the names, addresses and telephone numbers of four references should be submitted to: Dr. Richard Schimmel, Acting Assistant Dean for Basic Sciences, Department of Cell Biology, UMDNJ-SOM, 481 South Central Plaza, Stratford, NJ 08084. The UMDNJ is an affirmative action/equal employment opportunity employer, M/F/H/V, and a member of the University Health System of New Jersey.

Harvard Graduate School of Education Position in Teaching and Learning

The Harvard Graduate School of Education seeks to fill a position at the junior (non-tenure) level or senior (with tenure) level in its Teaching, Curriculum, and Learning Environments Area. The focus of the position is on teaching and learning with an emphasis in science education. Candidates are expected to have academic strength within a field of science as well as a record of creative scholarship/research in the teaching/learning process associated with this field. Candidates are also expected to have a substantial historical and philosophical understanding of one of the science fields as well as approaches to the teaching of science in the schools. Among the responsibilities of the position is teaching science curriculum and pedagogy courses in Harvard's preservice and experienced teacher education programs.

Applications or nominations should be received no later than March 15, 1991 and should include curriculum vitae, description of research in progress and two recent articles or monographs. Send to Dr. Vito Perrone, Chair, Search Committee, Harvard Graduate School of Education, 50 Garden Street, Cambridge, MA 02138.

Applications from women and minority candidates are especially welcomed. Harvard University is an affirmative action/equal opportunity employer.

Department of Environmental Health Sciences Institute (EOHSI), an interdisciplinary research institute, is jointly sponsored by Rutgers, The State University of New Jersey and the University of Medicine and Dentistry of New Jersey, Robert Wood Johnson Medical School (UMDNJ). Positions available are:

ANALYTICAL CHEMIST: expertise in GC/MS, strong background and interest in analytic development, requires participation in collaborative research.

DEVELOPMENTAL BIOLOGIST: expertise in contemporary morphological techniques and research interest in developmental neurotoxicology.

The appointment will be in either Rutgers, The State University of New Jersey or UMDNJ-Robert Wood Johnson Medical School. Faculty rank depends upon qualifications. Ph.D. in appropriate discipline required. Ability to develop independent and externally funded research is essential.

EOHSI comprises research, education and service programs in a setting that facilitates interaction among experts in environmental health, exposure assessment, toxicology, occupational health, public policy and health education.

Send curriculum vitae, a statement of research interests, and the names of four references by April 1, 1991 to: Analytical Chemist/Developmental Biologist Search Committee, Attention: Rebecca Shulman, Environmental and Occupational Health Sciences Institute, 675 Hoes Lane, Piscataway, NJ 08854.

Rutgers and UMDNJ are affirmative action/equal opportunity employers and welcome applications from women and minorities.
Dean, College of Science
Texas A&M University

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

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

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

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

Respond to:
Dr. John A. Shadduck, Chair
Search Committee, Dean of Science
Texas A&M University
College Station TX 77843-4468
Phone: 409/845-5517
FAX: 409/845-6739

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MAMMALIAN CELL EXPRESSION,
CELL BIOLOGY

Chiron Corporation, a recognized leader in biotechnology and molecular biology is seeking a highly motivated individual to work in the area of mammalian cell expression. Initially the expression of various novel growth and differentiation factors will be targeted. The position requires a Ph.D. and 3-8 years of experience in the field. An ability to perform independent research must be demonstrated by a record of publication in peer reviewed journals. The successful candidate will work towards the development of novel methods for the expression of eukaryotic proteins in various cell types, with particular emphasis on high level expression, secretion and posttranslational modification. An ability to interact with multidisciplinary groups working towards the production of clinically important products is essential.

DNA SEQUENCING
Automation, Molecular Biology and Sequence Analysis

A second position is available within the Chiron DNA sequencing group. The position is at the Ph.D. level, and will involve the development of techniques for automated DNA sequencing using state-of-the-art equipment. The successful candidate will be expected to apply the techniques developed to the sequencing of DNA within a core facility service. In addition, the sequencing and analysis of novel DNAs from a variety of eukaryotic systems will be targeted.

Chiron Corporation, located in the San Francisco Bay Area, offers a stimulating and challenging research environment, a competitive compensation package and opportunities for professional advancement. Candidates please send C.V. and two references to Chiron Corporation, Human Resources Dept.: MB-016, 4560 Horton St., Emeryville, CA 94608.

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Research Scientist

Metra Biosystems, Inc. is a young and growing biotechnology company whose vision is to be a preeminent company focused on the development of diagnostic products for connective tissue diseases. We currently have an opening for a Research Scientist.

Candidate for this position must have a Ph.D. in Biochemistry or a related discipline with extensive research experience in purification and characterization of extracellular matrix proteins.

Metra Biosystems offers competitive salaries, equity compensation and strong connections with experts in all aspects of connective tissue research. Please forward your curriculum vitae to:

Metra Biosystems, Inc.
Human Resources Department
3181 Porter Drive
Palo Alto, CA 94304.

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Formulation & Drug Delivery Scientist

Genentech, Inc. is the leading biotechnology research and pharmaceutical production company, publishing a paper approximately every day and a half. Currently, we are seeking a Formulation & Drug Delivery Scientist for our Pharmaceutical R&D department to help us continue our success.

You will design and supervise laboratory studies leading to the development of new dosage forms/delivery systems for protein pharmaceuticals with particular emphasis on sustained release delivery systems. These studies include the design and evaluation of the dosage form, the study of protein release from formulation matrices, and the physical and chemical characterization of the protein with regard to its stability, its interaction and compatibility with the formulation and manufacturing process.

To qualify, you must have a Ph.D. or equivalent in Physical Chemistry, Biochemistry or Biophysical Chemistry. The ideal candidate will have at least 2 years' industrial or post-doctoral experience in physical protein chemistry or formulation of protein drugs. A working knowledge of analytical and physical biochemistry techniques such as spectroscopy, chromatography and electrophoresis is essential. Experience with polymer chemistry, aggregation phenomena, protein stability and mass transport phenomena is also desired.

Our progressive company offers an exceptional compensation and benefits package and the opportunity to make a significant contribution to our organization. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. LS921, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment.

Genentech, Inc.
MOLECULAR BIOLOGIST

DNA Research Institute is seeking two scientists to join the staff of our Molecular Biology Department. Candidates should hold either a Ph.D. or M.D. degree and have completed postdoctoral training.

The Institute conducts basic research in a variety of areas of molecular and cellular biology with an emphasis on cytokines and growth factors controlling the immune system and hemopoietic cells. We invite applicants whose research interests could take advantage of these established strengths. We are particularly interested in individuals employing molecular or biochemical approaches to cellular receptors and signal transduction, cell-cell interaction and cell adhesion molecules, or transgenic mouse models, but applicants with related interests are also encouraged to apply.

PROTEIN CHEMIST

A third position is available for a biochemist to be involved in the characterization of novel immunological and hemapoietic factors. This position is an interactive one that calls for creative and productive collaborations with DNAx cellular and molecular biologists to isolate and characterize new factors. This position requires an expertise in advanced methods of protein purification and analytical techniques including amino acid analysis and peptide sequencing.

Successful candidates will be expected to establish an independent research program in their areas of interest, and will have the flexibility to conduct basic research in the absence of teaching and grant-writing responsibilities. Institute scientists may work with postdoctoral fellows and are free to communicate their scientific findings in an open manner.

DNAx Research Institute, located near Stanford University, carries out basic research in Immunology and Molecular Biology in an open, academic environment. We are looking for individuals who can contribute to our enthusiastic and productive research program.

Interested applicants should send a curriculum vitae and the names of three references to: Human Resources Dept., DNAx Research Institute, 501 California Avenue, Palo Alto, CA 94304. DNAx is an equal opportunity employer, m/f/h.

POSITIONS OPEN

HIV CELL BIOLOGIST/VIROLOGIST

FACULTY POSITION (Assistant or Associate Professor Level) for Ph.D. or M.D. to establish a new laboratory component of multidisciplinary research program in children with AIDS. In addition, opportunity to develop personal research interests in either basic or clinical aspects of AIDS. Knowledge and experience required in cell culture, PCR, RIA, ELISA, and blotting techniques related to HIV. Contact: Walter T. Hughes, M.D., St. Jude Children's Research Hospital, Memphis, TN 38101. Affirmative Action/Equal Opportunity Employer.

PLANT PHYSIOLOGIST: Applications are invited for a temporary 9-month appointment during the 1991-92 academic year. The primary responsibilities will be to teach a laboratory course in plant biology during the fall semester, and seminar participation. Send curriculum vitae, the names and telephone numbers of three references, and a description of teaching interests and experience to: Thomas C. Vogelmann, Department of Botany, Box 3165, University of Wyoming, Laramie, WY 82071. Review of applications will begin 1 April 1991. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. For Ph.D.'s in an interdisciplinary program at Brown University applying cell biology, physiology, biochemistry, immunology, and molecular biology to problems of lung disease. Funding under National Institutes of Health institutional NRSA. Candidates from minority groups are especially welcome. For more information, please contact Dr. Frederic G. Hoppin, Jr., Director of Pulmonary Medicine, Brown University, Box G, Providence, RI 02912. Telephone: 401-722-6000, ext. 2636.

POSTDOCTORAL POSITION

A postdoctoral position is available in the field of developmental biology. The position involves the study of the development of cell development and mammalian development, both normal and disturbed, is being studied using cultured mouse embryos. Applicants should have a Ph.D. in cellular and molecular biology, or related disciplines and a good knowledge of cell biology. The candidate will have demonstrated expertise in molecular biology techniques. Experience with tissue culture is essential. The position is available immediately and will extend for 2 years, beginning when a successful candidate is identified. Salary will be commensurate with experience. For more information, please write to: Dr. C. G. Rousseau, Department of Veterinary Pathology, Western College of Veterinary Medicine, University of Saskatchewan, Saskatoon, Saskatchewan, Canada S7N 0W0.

POSTDOCTORAL POSITION

FRED HUTCHINSON CANCER RESEARCH CENTER (HFHCR)

A position is available immediately to study the cell and molecular biology of B cell differentiation. Research in progress focuses on the function of B cell receptors in bone marrow transplant recipients. Experience in molecular biology or immunology is necessary. Please submit a letter describing current and past research activities, your curriculum vitae, and two letters of recommendation to: Carol Nottenburg, Ph.D., Division of Clinical Research, Fred Hutchinson Cancer Research Center, Seattle, WA 98109. HFHCR is a smoke-free environment and an Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available for investigations of cellular/molecular mechanisms of neurodegenerative diseases. Our laboratory uses a variety of approaches to study several human neurodegenerative diseases, including Alzheimer's disease and motor neuron disease, and related animal models. This position is for a postdoctoral research program dealing with several research areas, including the neuronal cytoskeleton, transmitter systems, the amyloid precursor protein, and tau protein. Send curriculum vitae and two letters of recommendation to: Donald L. Price, M.D., Neuropathology Laboratory, The Johns Hopkins Hospital School of Medicine, 509 Pathology Building, 600 North Wolfe Street, Baltimore, MD 21205. 2181. Affirmative Action/Equal Opportunity Employer. We encourage applications from minorities. Because of funding requirements, applicants must be U.S. citizens.

POSITIONS OPEN

POSTDOCTORAL POSITION IN MOLECULAR/CELLULAR BIOLOGY. A position is available immediately for an NIH-supported study on molecular mechanisms of liver fibrogenesis. Send curriculum vitae and names of three references to: Dr. H. Tsukamoto, Director, Research, and Training, Research Building, Veterans Administration Medical Center, 150 Muir Road, Martinez, CA 94553.

POSTDOCTORAL POSITION IN MOLECULAR NEUROBIOLOGY. To investigate the action of proto-oncogenes in brain and retina. Projects include signal transduction in transgenic mice expressing tyrosine kinases and substrate gene. Candidate should have Ph.D. with experience in recombinant DNA technology and/or protein biochemistry. Send curriculum vitae and names and numbers of three references to: Patricia F. Maness, University of North Carolina School of Medicine, Neurology, CB 7259-7260, Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY. Available immediately to study molecular mechanisms of differentiation-dependent gene expression and metabolic regulation in lipid biogenesis. Experience in cloning, sequencing, mammalian expression, cell culture, and animal experiments desirable. Please send curriculum vitae and names of three references to: Dr. James M. Nambri, Department of Biochemistry and Molecular Biology, Georgetown University, 3900 Reservoir Road, N.W., Washington, DC 20007. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN SIGNAL TRANSDUCTION. A postdoctoral position to study phospholipase C- and phospholipase D-dependent signal transduction processes in liver cells is available immediately in an active, well-equipped, and fully-funded interdisciplinary research team. Prior experience in cellular signal transduction will be an advantage. Send curriculum vitae, statement of research interests, and names of three references to: Jan B. Hoek, Ph.D., Department of Pathology and Cell Biology, Thomas Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE

Funkefonded postdoctoral position for molecular, cellular, and transgenic analyses of gene expression in development of mammalian pigments and their contribution to melanomas. Send curriculum vitae and names, addresses, and telephone numbers of three references to: Dr. Beatrice Minta, Institute for Cancer Research, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111.

POSTDOCTORAL POSITIONS. Available to study: (i) DNA photolysate and the mechanism of enzymatic photorepair of DNA damaged by ultraviolet light; (ii) structure/function relationships in bacterial sarcosine oxidase, a multisubunit tetrahedralolate-binding protein containing both cova lent and noncovalent flavin. Applicants with an interest in enzymology, recombinant DNA technology, or photochemistry are encouraged to send curriculum vitae and names of three references to: Dr. Marilyn Jorns, Institute for Biological Chemistry, UCLA School of Medicine, Broad and Vine, Philadelphia, PA 19102.

UNIVERSITY OF PENNSYLVANIA SCHOOL OF MEDICINE DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE POSTDOCTORAL TRAINING IN NEUROPATHOLOGY

Positions available as of 1 July 1991 for studies in the nervous system, in particular the neurochemistry, neuroimmunology, and complement, and oncogenesis. Applicants must be citizens or permanent residents of the United States. Interested individuals should apply to: Nicholas K. Gonatas, M.D., University of Pennsylvania Medical School, Department of Pathology and Laboratory Medicine, 418 Johnson Pavilion/6079, Philadelphia, PA 19104-6079.

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

SCIENCE, VOL. 251
**Research Opportunities in**

**ENZYME STRUCTURE AND MECHANISM**

The Department of Biochemistry at Wake Forest University Medical Center is in the process of strengthening its research programs in the areas of protein engineering and molecular genetics. State-of-the-art facilities for automated protein sequence analysis and peptide and oligonucleotide syntheses are already available through the recently established institutional Program in Molecular Genetics. In addition, departmental faculty have access to the GCG sequence analysis software and database updates through a VAX-based network. A new Evans & Sutherland ESV graphics workstation provides an excellent resource for molecular modeling and other protein engineering applications.

The Department of Biochemistry presently has openings at both faculty and postdoctoral levels for research in enzyme structure and mechanism, as described below:

1. **Assistant Professor** – applicants should have 2 years’ post-doctoral experience in enzyme structural or mechanistic work, focusing on applications of modern mutagenesis approaches.

2. **Postdoctoral fellows** – positions available for molecular biology and protein structure-function studies, including enzymes of lipid metabolism (M. Waite) and membrane transport proteins (S. Hutson), and for in vivo NMR spectroscopy (C. Cunningham).

Candidates for the faculty position should submit a curriculum vitae, a brief description of research plans, and the names of three references. Screening of applicants will begin in early April and will continue until the position is filled. Send applications to:

**Dr. Al Claiborne**
Department of Biochemistry
Wake Forest University Medical Center
300 South Hawthorne Road
Winston-Salem, NC 27103
Phone: (919) 748-3514  FAX: 919-748-7671
e-mail: AC@ESV.BGSM.WFU.EDU

An Equal Opportunity/Affirmative Action Employer

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**The Fogarty International Center Announces**

**EXCHANGE VISITS TO EASTERN EUROPE AND U.S.S.R.**

The Fogarty International Center of the National Institutes of Health encourages applications for short-term exchange visits by U.S. health professionals or biomedical scientists (U.S. citizens or permanent residents) to Bulgaria, Hungary, Poland, Romania and the Soviet Union to undertake joint biomedical or behavioral research or to explore prospects for collaboration.

The Fogarty International Center will provide round-trip air fare for the participants. The host country will pay for lodging, in-country travel and a daily living allowance.

Applications are received continuously for review on March 1, June 1, Sept. 1, and Dec. 1.

For more information on this program and application forms, please contact:

**U.S.-Eastern European Health Scientist Exchanges**
Fogarty International Center
Building 31, Room B2C35
National Institutes of Health
Bethesda, Maryland 20892
Telephone (301) 496-4784
FAX (301) 480-3414

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**CELL PHYSIOLOGY**

WASHINGTON UNIVERSITY MEDICAL SCHOOL

The Department of Cell Biology & Physiology, Washington University in St. Louis is expanding its commitment to Cellular Physiology and Biophysics. We are searching for individuals whose research interests focus on the biophysical aspects of membranes, particularly as it relates to physiological processes, and who wish to develop innovative approaches to fundamental questions in a multidisciplinary environment. Both entering and senior scientists will be considered. Candidates, who hold a M.D. or Ph.D., should send a curriculum vitae, the names of 3 references and a brief synopsis of research interests to:

**Dr. Philip Stahl**
Department of Cell Biology and Physiology
Washington University Medical School
660 South Euclid Avenue
St. Louis, MO 63110
POSTDOCTORAL POSITION. To study the biochemistry and cell biology of a2-macroglobulin receptor. Laboratory goal is to establish the function of this receptor in immune cells. Experience in the structure/function of each polypeptide associated with this receptor complex. Recent graduate in biochemistry, molecular biology, or biological chemistry preferred. Competition is excellent, benefits, and superb working conditions in new facility. Send curriculum vitae and a list of three references to: Dr. Dudley Strait, Jr., Biochemistry, 15601 Crabbos Branch Way, Rockville, MD 20855. Equal Opportunity Employer, M/F/V/H.

POSTDOCTORAL POSITION. Available immediately, NIH-funded for up to 4 years, (i) investigating expression of a2-macroglobulin receptor and antiserum for [a2-macroglobulin receptor] in human, and (ii) developing highly sensitive immuno-chemistry with [a2-macroglobulin receptor] for the detection of human intracellular protein antigen. [a2-macroglobulin receptor] is a soluble protein with an estimated molecular mass of 150,000 daltons. Antiserum against [a2-macroglobulin receptor] has been obtained from rabbit sera. Human and murine cells are used in this study. Send curriculum vitae and three references to: Dr. Linda Levent, 465 Crabbos Branch Way, Rockville, MD 20855. Equal Opportunity Employer, M/F/V/H.

POSTDOCTORAL POSITION. Available immediately at the University of California, San Francisco (UCSF), in HIV immunopathogenesis. The project involves the identification of cytokine T cell receptor expressing T cell clones, for HIV peptide reagents and detection of T cell clones directed at structural and regulatory HIV proteins. Immunology experience essential. Familiarity with molecular biology or peptide chemistry is desirable. Send curriculum vitae and names of references to: Dr. John D. Biggers, University of California, 465 Crabbos Branch Way, Rockville, MD 20855. Equal Opportunity Employer, M/F/V/H.

POSTDOCTORAL POSITION. Reproductive biology. Recent Ph.D.s with basic science, medical, agricultural, or veterinary science background and demonstrated performance in mammalian reproductive biology. Particularly interested in individuals wishing to gain experience in the molecular and cellular biological aspects of either gametes and early embryos or endocrine control of reproduction. Individuals are encouraged to work with more than one faculty member to promote an interdisciplinary approach to problems. Only U.S. citizens and permanent residents need apply. Send curriculum vitae and summary of research interests, and three reference letters to: Dr. John D. Biggers, 465 Crabbos Branch Way, Rockville, MD 20855. Equal Opportunity Employer, M/F/V/H.

HUMAN LINKAGE MAPPING

One or two POSTDOCTORAL POSITIONS open 1 April 1991, or soon thereafter, to participate in NIH-funded studies on human microsatellite DNA polymorphisms in the laboratory of Dr. James Weber. Project will include developing and mapping new polymorphisms, investigating origins and evolution of microsatellites, improving genotyping technology, and mapping genetic disease genes. Venous blood samples and benefits. Send curriculum vitae and names of three references by 15 March 1991 to: Employment Representative, M. L. Marshfield Clinic, Human Resources, 1000 North Oak Avenue, World Avenue, Wisconsin 54449. Equal Opportunity Employer, M/F/V/H.

HUMAN MOLECULAR CYTGENETICS

POSTDOCTORAL POSITIONS are available to join active research groups investigating origin of chromosome abnormalities in human gametes and early pregnancy loss. Positions are available immediately and for 1-2 years. Personal computer experience preferred. Competitive salary and benefits. Send curriculum vitae and names of three references to Dr. James W. C. A. Thomas, Department of Biochemistry, Rollins Research Center, Emory University School of Medicine, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR NEUROBIOLOGY

POSTDOCTORAL POSITION. Available immediately for structure/function studies on voltage-sensitive calcium channels. Molecular cloning or electrophysiolog- ical background helpful. Studies to far mainly use Xenopus oocyte expression system. Send curriculum vitae and names of three references to: Dr. John P. Leonard, Department of Biological Sciences, M/C 066, University of Illinois at Chicago (UC), Box 4348, Chicago, IL 60680. UIC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH POSITION

A position is available immediately for a Ph.D. neuroscientist with interest in Parkinson's disease and expertise in molecular biology of gene regulation and characterization. Salary is commensurate with research accomplishment. Applicable with curriculum vitae and three references by 15 May 1991. E. B. W. Department of Pharmacology, University of Nebraska College of Medicine (UNMC), 600 South 42nd Street, Omaha, NE 68198-6200. UNMC is an Affirmative Action/Equal Opportunity Employer.

INTERNATIONAL CANCER RESEARCH FELLOWSHIP

The Hayashibara Foundation, a nonprofit-making organization within the Hayashibara Group, announces a fellowship program. Fellowship will be taken at the Fujisaki Institute for Basic and Applied Research related to the problems in human cancer. The fellowship is normally for 1 year and is renewable for up to 3 years. The fellowship will be expected to commence within 6 months of the announce- ment of the awards. No fixed deadline for application is set throughout the year. The awards are for high-quality research work in one of the three described below:

- Fundamental leukemia-lymphoma research
- Cytokine/lymphokine research
- Hematologic malignancies research

Qualified person who is holding a Ph.D., M.D., or equivalent qualifications should make inquiry for additional information forms from: Jun Minowada, M.D., Director, Fujisaki Institute Center, 67-5, Fujisaki, Okayama 702, Japan.

POSTDOCTORAL FELLOWSHIP

The Cellular and Molecular Biology Group in the Life Sciences Division of the Los Alamos National Laboratory is seeking a postdoctoral fellow to perform basic cellular and molecular biological research in the area of mechanisms of carcinogenesis. In particular, we are interested in the role of chromosomal instability in neoplastic progression with emphasis on the clastogenic properties of early proteins of the small DNA tumor viruses. Individuals with a strong background in both cellular and molecular biology are encouraged to apply. Applicants should have received their doctoral degree within the past 3 years. Postdoctoral appointments are for 1 year, renewable for a second year. The salary range is $36,666 to $38,619 per year. For further information, please contact: Paul M. Kraemer, Ph.D., Cellular and Mol- ecular Biology Group, Life Sciences Division, MS M808, Los Alamos National Laboratory, Los Alamos, NM 87545. Telephone: 505-667-2750; FAX: 505-665-3024. To formally apply, please send curriculum vitae, letter describing research interests, employment application, three letters of reference, and graduate and undergraduate transcripts to: Ronnie Co- then (MS M808), Human Resources Development, Life Sciences Division PD-91-081, Los Alamos National Labora- tory, Los Alamos, NM 87545. For employment appli- cations: telephone: 505-667-0872; Los Alamos is an Affirmative Action/Equal Opportunity Employer.

GLOBAL CHANGE POSTDOCTORAL FELLOWSHIPS

Global Change Distinguished Postdoctoral Fellowship provides opportunities related to the U.S. Global Change Program. The program encompasses the full range of earth system changes including physical, chemical, biological, geological, and social. Fellowships are tenable at approved federal and university laboratories, including those of the Department of Energy, NASA, NCAH, USDA, and other agencies. Stipends are $35,000. A doctoral degree received after 1 May 1988 is required as a U.S. citizen or permanent resident. Deadline: 1 May 1991. Contact: Global Change Distinguished Postdoctoral Fellowship, Science/Engineering Edu- cation Division, Oak Ridge National Laboratory, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-4805.

RESEARCH FELLOWSHIPS IN EPIEDEMIOL- OGY OF LUNG DISEASES. NIH-supported stipends and tuition fees for a 2-year program working in airways hyperreactivity and/or nasal history. Position would be on chronic lung disease along with training in epidemiology leading to a master's degree from Harvard University. Must be eligible in internal medicine or equivalent. Candidates with clinical training in pulmonary diseases preferred but not required. Available for U.S. citizens and permanent visa holders. Inquire: Frank B. Speizer, M.D., Professor in Medicine, Harvard Medical School, Co-Director, Channing Laboratory, Department of Med- icine, Brigham and Women's Hospital, 180 Long- wood Avenue, Boston, MA 02115. This program specifically encourages applications by minority group members. The Brigham and Women's Hospital is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION

Position available immediately to study the vitamin A-mediated regulation of mammalian spermatogenesis at Washington State University. Ph.D. experi- enced in the basic techniques of molecular biology and interested in reproductive biology would be preferred. Please send curriculum vitae and three of your refer- ences to: Dr. Kwan Hee Kim, Department of Biochemistry/Biophysics, Washington State University, Pullman, WA 99164-4660. Deadline: 30 June 1991. Washington State University is an Equal Opportunity/ Affirmative Action Employer.

Simply write us a letter stating the specifics about your proposed lab and the instruments and supplies you need. We will do the rest. Write to:

SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036
Infectious Disease Research Scientist Research Associate

Searle Research and Development is seeking qualified individuals for two positions at our St. Louis (Chesterfield) Missouri location, Ph.D.-level Research Scientist and Research Associate requiring an M.S. degree. Both positions will participate in an interdisciplinary program directed toward the discovery of novel therapeutic modalities for the treatment of human infectious diseases. Specific responsibilities will include identification and evaluation of potential molecular targets for the control of human pathogens and development of models to test antiviral, anti-fungal, and anti-bacterial agents. Research Scientist position also requires implementation of an independent research program. Expertise in molecular and cell biology, including virology, is preferred for both positions, as is collaborative team experience.

Searle, a wholly-owned subsidiary of Monsanto Company, offers competitive salary and benefits plans. Qualified applicants should send resumes to: M. McCarthy; SEARLE; 700 Chesterfield Village Parkway; St. Louis, MO 63198. An Equal Opportunity Employer.

RESEARCH SCIENSTISTS

Natural Product Sciences, Inc. is a rapidly growing company developing novel pharmaceutical and agrochemical products based on natural product leads. With a strong in-house research program comprising chemistry, biology, and molecular biology and major industrial partners in both pharmaceuticals and agrochemicals, Natural Product Sciences is a leader in the natural products field.

As part of the continuing expansion of its research efforts, NPS now has openings for highly motivated Molecular Biologists with demonstrated skills in recombinant expression. Hands-on experience in molecular virology, baculovirus expression, expression in mammalian cells, or construction and screening of expression libraries is particularly desirable. Applicants at all levels will be considered for Associate or Senior Scientist positions.

Natural Product Sciences offers competitive salaries, benefits and the opportunity for equity ownership. Our location on the western slope of the Rocky Mountains provides an unusually beautiful and livable environment in which to pursue innovative and important science.

Please send curriculum vitae and names and addresses of three references to: Director of Personnel, Natural Product Sciences, Inc., 420 Chipeta Way, Salt Lake City, UT 84108. Natural Product Sciences is an equal opportunity employer.

ROCKEFELLER FOUNDATION BIOTECHNOLOGY CAREER FELLOWSHIPS

The Rockefeller Foundation announces a program of career development fellowships designed to enable scientists from developing countries, trained at outstanding centers for advanced research in biotechnology, to continue to work at those or other institutions for three months each year, over a period of at least three years, conducting advanced research and keeping abreast of new developments in their fields. The program will focus upon the development and application of advances in molecular and cellular biology and immunology relevant to agriculture, health, reproductive biology, and environmental protection.

Funding will be shared between the Foundation and the host laboratory, with the Foundation providing travel and per diem support. It is hoped that the fellowships will encourage the establishment of ongoing working relationships between outstanding young scientists working at third world institutions, and research teams at advanced laboratories.

Applicants to this program should have at least Ph.D.- or M.D.-level training, a proven record of scientific productivity, and a permanent position at a research or teaching institution in their home country. A written project proposal must be developed and submitted jointly by the candidate and the laboratory sponsor.

Information about application procedures can be obtained by writing to Biotechnology Career Fellowships, Rockefeller Foundation, 1133 Avenue of the Americas, New York, New York 10036, USA.

Post-Doctoral Opportunity Signal Transduction

The Central Research Division of Pfizer Inc offers a unique post-doctoral program comprising a 3 year appointment that includes 18 months in our laboratories followed by 18 months in an academic laboratory. The current position requires a scientist with a Ph.D. in Biochemistry or related area and an interest in the regulation of phosphorylation in cells of hematopoietic origin. The first half of the study will focus on the regulation of phosphorylation in intact cells while the second half will involve expression and genetic manipulation of protein kinases and the proteins which regulate them. Publication of the results of these studies will be expected.

This position includes a stipend, medical and dental insurance, and relocation assistance. To be considered for this position, please forward your curriculum vitae and the names of three references to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Central Research Division, Pfizer Inc., Eastern Point Road, Groton, Connecticut 06340. An equal opportunity employer.
Microbiologists

Take action
developing important
new biotransformation processes.

Now's the time to make a significant contribution at Schering-Plough. We're a $3+ billion leader in the health care industry whose ongoing research and development results in significant new processes and products. Right now, our Microbiological Development Group can offer you considerable challenge in the design and development of biotransformation processes.

The following roles will impact on the production of chiral pharmaceuticals and microbial fermentations for the production of antimicrobial agents:

**Senior Scientist**
You will play a critical role in establishing a research program to identify novel microbial activities for use in developing efficient bioconversion processes.

Requires a PhD in Microbiology/Biochemistry with 1-3 years postdoctoral or industrial experience in microbial/ enzymatic biotransformations. You must be proficient in microbial chemistry and possess strong communication skills. Prior supervisory experience or a background in molecular biology would be highly desirable.

**Assistant/Associate Scientist**
You will conduct research to support microbial fermentation development.

Requires a BS or MS in Microbiology with 2-4 years' academic or industrial experience in microbial fermentation development. Must be familiar with biochemical procedures necessary to isolate and characterize enzymes, and be proficient in maintaining and culturing a variety of microorganisms. Experience with HPLC or molecular biology techniques would be helpful.

We offer a competitive starting salary, comprehensive benefits and outstanding growth potential. For prompt, confidential consideration, send your resume with clear indication of position desired, to: Mr. M. Urdanick, Schering-Plough Corporation, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer.

What you have in mind, we put into action.

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Postdoctoral Positions for Chemists, Biologists, Microbiologists

The National Institute of Dental Research (NIDR), National Institutes of Health, invites applicants with a D.M.D., D.D.S., M.D., Ph.D. or D.V.M. to apply for postdoctoral positions in chemistry, biology, and microbiology. Areas of investigation include:

- connective tissue and matrix development
- tumor biology and metastasis
- AIDS research
- bone and tooth biology
- signal transduction and secretion
- pain pathways and mediators
- autoimmunity
- oral microbial interactions
- vaccine development
- allergic and chronic inflammatory mechanisms

Fellowships offer research training in the laboratories of NIDR intramural scientists. Stipend commensurate with experience. Send curriculum vitae, bibliography, and three letters of reference to:

**Personnel Officer**
National Institute of Dental Research
National Institutes of Health
Building 31, Room 2C-23
9000 Rockville Pike
BETHESDA, MD 20892

Applications will be accepted until May 31, 1991.

NIH is an Equal Opportunity Employer
Cellular Neurobiology and Development of the Leech

August 4 - 24, 1991

For ten graduate students, postdoctoral students, and independent investigators interested in applying and integrating diverse experimental approaches to the study of the nervous system and development of a single organism.

Electrophysiological and morphological methods (including monoclonal antibodies) will be used to study neurons of the leech segmental ganglia. Electrophysiological results are correlated both with behavior and with the morphology of individual cells marked by intracellular staining. Patch-clamp techniques are used to study whole cell and single channel transmembrane currents in isolated neurons in culture. Students will also learn techniques and concepts of experimental embryology, including cell lineage tracing, cell ablation, and the analysis of gene expression using non-radioactive in situ hybridization and immunohistochemistry.

Director: David Weisblat, University of California, Berkeley. Faculty: Pierre Drapeau, McGill University; Shawn Lockery, Salk Institute; and others to be announced.

Application deadline: MAY 15, 1991

Partial financial aid is available to qualified applicants.

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

Marine Biological Laboratory

International Symposium on
Newer Aspects of the Adjuvant Action of
Lipid A and Its Analogs
Airie Conference Center, Airie, Virginia
April 6-9, 1991

An international symposium on the multiple adjuvant functions of lipid A and its analogs is being held to bring together investigators in diverse disciplines to provide a state of the art overview and detailed analysis of current areas of activity. The topics to be covered include: New advances in the structural relationships of lipid A and its analogs; Implications and Consequences of lipid A administration; Cellular mechanisms and cytokines; Non-specific increases in resistance to microorganisms; Molecular mechanisms of intracellular signaling; and Current vaccine strategies using lipid A derivatives.

Lecturers and Invited Participants will include:

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For registration information, write to: Dr. Arthur Johnson, Univ. of Minnesota, Dept. Medical Microbiol. & Immunology, 10 University Drive, Duluth, MN 55812. Registration cost is $100 (before March 1, 1991), $150 (after March 1).

A TIME FOR ACHIEVEMENT

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

**CELL and MOLECULAR BIOLOGIST**

Cancer Gene Targets Group

We seek a Molecular Biologist with experience in cell biology for our Cancer Gene Targets Group, which has been recently established as part of our expanding Research and Development program. This individual will lead a new research team focusing on the molecular and cellular biology of cancer. Emphasis will be on an interdisciplinary approach to the regulation of cancer gene expression, both at the DNA and RNA levels.

The team will test novel chemical approaches for the regulation of gene expression, including antisense and triplex forming oligonucleotides. Initially the work will involve development of in vitro systems which can be translated to in vivo for the study of alterations in important genes and loss of suppressor control.

The successful candidate will have had experience in the application of molecular biology to biochemistry or cell biology, and will also be an innovative, pragmatic scientist capable of turning ideas into action. Active collaboration between the research team and other teams both inside and outside the company is required.

Qualifications must include a Ph. D. or M. D., a minimum of five years of relevant post-doctoral experience, and a proven record of achievement.

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

Send your resume, including salary history, to: Human Resources Department, Job #9125 8811-5C, Glaxo Inc., PO. Box 13398, Research Triangle Park, NC 27709, (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.
RESEARCH POSITIONS

Medimmune, Inc. is committed to the discovery and application of novel molecular and immunologic approaches toward the development of vaccines and therapeutic agents for human infectious diseases. We currently have two openings in both our Molecular Genetics and Biochemical Virology Departments.

MAMMALIAN CELL EXPRESSION, Scientist level - The individual should have a MS or PhD degree and at least three years experience in gene expression in mammalian cells. Experience in expression of recombinant immunoglobulin genes is especially relevant.

MOLECULAR BIOLOGY, Research Associate level - The individual should have a BS or MS degree and laboratory experience in several of the following areas: RNA and DNA purification, cDNA cloning, DNA sequencing, and gene assembly and expression.

BIOCHEMISTRY, Scientist level - The individual should have a MS or PhD degree and several years experience in protein purification and analysis, enzymology, and biochemical virology.

Virology, Scientist level - The individual should have a MS or PhD degree and several years laboratory experience and expertise in mammalian cell culture, virus propagation, virus plaque assay, virus purification, antiviral antibody reactivity and neutralization.

We are an equal opportunity employer and offer competitive salaries, an excellent benefits package, and a unique opportunity for professional growth. Applicants should submit their resume for prompt, confidential consideration to:

Medimmune, Inc.
Human Resources
19 Firstfield Road
Gaithersburg, MD 20878

Associate Director, Cell Biology

We seek a strong innovative scientist to lead our Cell Biology group. This position directs the activities of three scientists conducting applied and basic research on intracellular protein trafficking, cell surface receptors and the mechanisms of cell-cell interactions.

The ideal candidate will have a Ph.D. in Cell Biology and 7-10 years' practical experience studying the biology of cellular interactions plus prior management experience.

Genzyme rewards success with an excellent compensation and benefits package, including 3 weeks' vacation, a 401(k) plan with a company match, extensive insurance benefits, equity participation, and new state-of-the-art facilities.

For immediate consideration send your resume to Human Resources, Dept. 8301, Genzyme Corporation, One Kendall Square, Cambridge, MA 02139.

An equal opportunity employer

Bioanalytical Chemist

Pharmaceutical R&D
Take charge of your career where ability counts

Hoechst-Roussel Pharmaceuticals Inc., a fast-growing subsidiary of Fortune 100 Hoechst Celanese, has an opening in its Chemical Research Department.

The successful candidate will be responsible for the development and validation of bioanalytical assays of drugs and drug metabolites. You will also provide collaborative interface with drug metabolism scientists, synthetic chemists and clinical investigators. This position requires a Ph.D. degree in Analytical/Bioanalytical Chemistry with 1-3 years of pharmaceutical experience in the isolation, characterization and quantitation of drugs and drug metabolites from biological matrices. Knowledge of computer data handling systems would be desirable.

Located at our modern research facility in Bridgewater, NJ, this position offers a competitive salary and a comprehensive, flexible benefits program. Please submit resume with salary history to: Joe Thomas, Mgr. Human Resources, Section 36-15, Hoechst-Roussel Pharmaceuticals Inc., Route 202 & 206, Somerville, NJ 08876-1258. An Affirmative Action Employer M/F/H/V.

Hoechst-Roussel Pharmaceuticals Inc.

Research Fellow/Assistant Investigator

Lindsay F. Kimball Research Institute, internationally recognized research facility, has an immediate need for a Biochemist with a strong background in Molecular Biology.

Participate in a project involving identification and characterization of plasma protein genes in human cell lines. Must be proficient in modern techniques. Lab is located close to other major research institutes.

We offer excellent salary and an outstanding benefit package including liberal vacation, 100% tuition reimbursement, medical/dental and pension plan.

If you meet the qualifications above, submit resume, with salary history/requirements, to: LFK Research Institute of the New York Blood Center, Dr. Gerd Grieninger, 310 East 87th Street, New York, NY 10021; or FAX resume to: 212-737-4506. Equal opportunity employer M/F/H/V.

Lindsay F. Kimball Research Institute
A Division of the New York Blood Center
Where concern for the community comes first.
The Health Effects Institute—Asbestos Research is an independent non-profit corporation formed recently to support research to determine the airborne exposure levels prevalent in buildings, to characterize peak exposures and their significance, and to evaluate the effectiveness of asbestos management and abatement strategies in a scientifically meaningful manner. HEI-AR is organized to gather and to generate reliable information, and is supported jointly by the Environmental Protection Agency and a broad range of private parties that have an interest in asbestos. The Congressional mandate under which HEI-AR operates specifies that the HEI-AR’s research “effort shall in no way be construed to limit or alter EPA’s authority or obligation to proceed with rulemakings and to issue rules as necessary.”

The HEI-AR has recently issued two Requests for Applications: RFA 90-1 Effect of Maintenance and Custodial Activities on Asbestos Exposure to Building Occupants; and RFA 90-2 Population Exposure to Asbestos.

HEI-AR anticipates that air sampling and analysis using the transmission electron microscope to measure airborne levels of asbestos will be a strong component of the studies it funds. In order to obviate the difficulties that may be related to interlaboratory differences in sample handling, preparation or analysis, HEI-AR plans to issue a separate contract with an experienced laboratory for TEM analysis of the air samples generated during the course of studies funded under these RFAs. HEI-AR will also establish a strong QA/QC program, which is likely to include one or more additional laboratories for comparative analyses.

HEI-AR is soliciting applications from qualified laboratories to serve as the primary TEM analysis laboratory (Reference Laboratory). Materials describing the Health Effects Institute—Asbestos Research, preparation of applications, and applications will be available after March 8, 1991. The deadline for the Reference Laboratory application is April 22, 1991. Work on the studies funded under the RFAs is expected to begin in the summer, but it is anticipated that samples for analysis will not be collected until the fall.

Requests and inquiries should be directed to:
Dr. Rashid Shaikh
The Health Effects Institute—Asbestos Research
141 Portland Street, Suite 7100
Cambridge, MA 02139

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Bristol-Myers Squibb Pharmaceutical Research Institute

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

RESEARCH SCIENTISTS, BS/MS

MOLECULAR BIOLOGY

The focus of this position will be on cloning and expressing mammalian genes in cultured cells. Demonstrated skills in cloning, sequencing, vector construction, transfection of mammalian cells and maintenance of tissue culture cell lines is preferred. Reply to Dept. # 202A.

VIROLOGY

Position available for a biochemist or protein chemist to examine protein-protein and protein-DNA interactions. Experience in protein purification, peptide isolation, electrophoresis, HPLC and FPLC is preferred. Reply to Dept. # 202B.

METABOLIC DISEASE

• Participate in research related to the discovery of novel therapeutic agents to combat atherosclerosis via application of molecular techniques. There will be opportunities to participate in studies of the basic molecular processes in atherogenesis. Experience in DNA cloning/sequencing and PCR technology required. A background in site directed mutagenesis, mRNA isolation/analysis or cell culture would be desirable. Reply to Dept. # 202C.

• Participate in the development and implementation of novel molecular based assays for the discovery of agents to combat atherosclerosis. Experience with molecular biology, cell culture and/or ELISA would be an asset. Reply to Dept. # 202D.

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

Please forward your resume to (including dept. code): Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.
POSTDOCTORAL FELLOW. Position available to study alterations in signal transduction mechanisms in different models of genetic hypertension. Preference will be given to candidates with a recent Ph.D./Ph.D. molecular/cell biology with experience in molecular biology tech- niques, ligand binding, and phospholipase assays. Send applications, curriculum vitae, and names and addresses of two references to: Janice G. Douglas, M.D., Director, Division of Endocrinology and Hypertension, Case Western Reserve University School of Medicine, 10900 Euclid Avenue, Cleveland, OH 44106. Telephone: 216-368-4744. FAX: 216-368-4752. Case Western Reserve University is an Equal Opportunity Em- ployer.

POSTDOCTORAL TEACHING FELLOWSHIP

The College of Basic Sciences, Louisiana State University (LSU), anticipates a postdoctoral teaching fellowship to begin by 21 August 1991. This is a teaching fellowship supported by a Hughes Foundation grant for persons intending to pursue a career in college life science teaching. Duties include laboratory coordination and supervision of student teachers and teaching assistants in major and non-major introductory laboratories as well as one lecture section in introductory biology. The successful applicant will coordinate academic and administrative responsibilities associated with the Hughes initiative at LSU. A Ph.D. in any field of biology is required. Applications including curriculum vitae, three letters of refer- ence, and an outline of educational objectives should be addressed to: Dr. Marshall D. Sundberg, 30 Agricultural Administration, Louisiana State University, Baton Rouge, LA 70803. Application deadline is 15 March 1991. LSU is an Equal Opportunity Employer.

RESEARCH INSTRUCTOR AND POSTDOCTORAL FELLOWS. Available immediately for well- funded new initiative to study cell growth regulations and signal transduction. Laboratory is located in pleasant Georgetown environment; considerable interaction with colleague and associate professors. Salaries will be commensurate with experience. Contact: Dr. Aleyda V. Kasten, Department of Biochemistry and Molecular Biology, Georgetown University School of Medicine, Washington, DC 20007. Georgetown is an Equal Opportunity/Affirmative Action Employer.

GRADUATE RESEARCH ASSISTANTSHIP (MS/Ph.D.)/POSTDOCTORAL FELLOW. The Depart- ment of Entomology, Louisiana State University, needs study, and the team is engaged in social insect biology, ecology, and behavior (termites). Our goal is to develop innovative control strategies. Unique research sites in- clude termite colonies on the Charles area and historical sites in the French Quarter of New Orleans. Write: Dr. Gregg Henderson, Department of Entomology, Louis-iana State University, Baton Rouge, LA 70803. Louisiana State University and the Louisiana Agricultural Experiment Station are Equal Opportunity/Affirmative Action Em- ployers.

POSTDOCTORAL/RESEARCH ASSOCIATE. Ph.D. synthetic organic chemist to work on development of new radioischemics for diagnostic imaging (J. Med. Chem. 33, 171 (1990)). Background in synthesis and characterization of small organic molecules is essen- tial. The position involves preparative scale synthesis and characterization of new molecules as well as synthesis and characterization of model compounds. The individual will be involved in a highly motivated, collaborative research team. Assist in solving imaging problems. Position available immediately. Send resume to: Hank E. King, Ph.D., Department of Radiology, University of Pennsylvania, 202 Transportation Avenue, Philadelphia, PA 19104. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE. For research hospital in northwestern Ohio. Design, perform, and explain experiments utilizing analytic chemistry, protein chemistry, protein isolation and puri- fication enzyme assay, cell isolation and culture, and membrane isolation and purification to investigate the biological effects of estrogen on animal models of various substrates and correlation and comparison of experiment results to human applica- tions. The position requires a Ph.D. (pharmacology) and 3 years of experience in the job described. Forty hours per week, 8:30 a.m. to 5:30 p.m., Monday to Friday; $25,000 per year. Must be licensed. An Equal authority to work permanently in the United States. Send resume in duplicate (no calls) to: J. Davies, JD #118402, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

POSTDOCTORAL RESEARCH ASSOCIATE. Internal medicine. Medical school position involving research to develop vaccine for breast tumor, specifically breast cancer associated with the use of recombi- nant DNA techniques. Requires Ph.D. in a basic science plus 2 years of additional research experience involving recombinant DNA techniques. Apply at the Texas Employment Commission, Lubbock, Texas, or send resume to: Texas Employment Commis- sion, P.O. Box 2295, Austin, TX 78762, FAX: #6122751. Ad paid by an Equal Employment Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS

Two positions available immediately to study the molecular mech- anisms that play a role in organ development. Associate Pro- fessor, Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, CB# 7090, 232 Taylor Hall, Chapel Hill, NC 27599.

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

RESEARCH ASSOCIATE/POSTDOCTORAL

A position is currently available to study genotoxic stress responses in mammalian cell. Emphasis will be given to a recently isolated group of novel DNA-damage- sensitive cell lines and the growth and differentiation in- control. Studies will also focus on the regulation of HIV-1 expression by genotoxic stress and on HIV-1 genome and HIV-1 provirus response genes. Experience in molecular biology and/or protein biochemistry, such as the purification and characteriza- tion of DNA-binding proteins, is desirable. Salary for a postdoctoral fellow (more than 3 years of experience) or a research associate (up to 5 years of postdoctoral experience) is commensurate with experience. Send cur- rent and previous names of three references to: Dr. A. J. Fornace, Laboratory of Molecular Pharmacology, Building 37, Room 5C09, National Institutes of Health, Bethesda, MD 20892. email: fornace@fcr- nlvi.nih.gov.

An Equal Opportunity/Affirmative Action Employer.

VERTEBRATE BIOLOGIST/RESEARCH ASSOCIATE

The Center for Water and the Environment of the Natural Resources Research Institute is looking for a general biologist to join a core group of researchers to study the effects of natural resources development on ecological systems. The successful appli- cant should have broad training in vertebrate biology, ecology, statistics, and especially ornithology. Minimum qualifications for the position include at least a B.S. in biology, ecology, or closely related field, five peer-reviewed publications, formal training and experience in the use of statistics including multivariate statistics, the ability to identify Minnesota's forest birds by sight and sound, and the physical ability to work in a variety of field environments. Desired qualifications in- clude a minimum of 2 years of postdoctoral experience in a relevant study area. The position is for an indefinite period and includes a 12-month supervised experience, and a demonstrated record in the development of externally funded projects. The position is expected to be a 2-year appointment of up to 3 years under the Minnesota's Professional and Academic Staff. Salary is negotiable. The position is expected to begin immediately.

To apply, send an application letter, résumé, and the names, addresses, and telephone numbers of three refer- ences to: Dr. George Jones, Research Biologist, Natural Resources Research Institute, 5015 Miller Trunk Highway, Duluth, MN 55811. Applications must be postmarked by 15 March 1991.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to religion, race, color, sex, national origin, handicap, age, veteran status, or sexual orientation.

BIOCHEMIST, PHARMACOLOGIST, OR CHEMIST. Two positions available immediately. Ph.D., 0 to 2 years of experience. Strong interest in nucleic acid chemistry, biochemistry, and/or enzymology. Current and antecounter intervention. Interested candidate should submit a résumé and salary requirements to: Department LA, Baxter Diagnostics, Inc., MicroScan Division, 1584 Enterprise Boulevard, West Sacramento, CA 95691. We are an Equal Opportunity Employer, M/F/H/V.

AQUATIC BIOLOGIST/BIOCHEMIST. Aquatic, Inc., a research and development firm specializing in aquatic biotechnology, is seeking a highly motivated individual with experience in the fields of microbial mass culture, physiology, and biochemistry. The successful applicant will be involved in ongoing projects in microbial mass culture. Supervisory skills will also be helpful. An M.S. or Ph.D. in an appropriate field is required. Individuals with skills in HPLC, microbial culture techniques, and computers are preferred. Salary will be commensurate with experience. Interested individuals should send a résumé and the names, addresses, and telephone numbers of three references to: Mr. M. Granger, Aquatic, Inc., 11828 Rancho Bernardo Road, San Diego, CA 92128. An Affirmative Action/Equal Opportunity Employer.

The Southeastern Forest Experiment Station (SE- FES), U.S. Department of Agriculture (USDA) Forest Service, is recruiting for two positions: (1) RESEARCH PLANT ECOLOGIST OR BOTANIST position of- ficed at Clemson University, Clemson, South Carolina, will be responsible for planning and performing indepen- dent research to assess ecosystems and their interactions with changes associated with timber harvesting and other practices. Special emphasis will be given to development, implementation, and evaluation of monitoring and management strategies. Interested candidates should have demonstrated capability to develop, implement, and document monitoring and management initiatives. Qualified individuals should send a resume and three letters of re- ference to: Nathan Prentis, Early Alert Notice 89-35, SEFES, P.O. Box 2680, Asheville, NC 28802. Telephone: 704-257-4380. Applications will be accepted through 15 March 1991.

POSTDOCTORAL RESEARCH ASSOCIATE. Position available for recent Ph.D. to study the mutation, function, and regulation of thymidylate synthase in human malignancies in cooperation with Dr. Jeremy Sloane. Experience in mammalian cell culture. Experience in mammalian cell culture. Send a resume to: Dr. J. A. Houghton, Department of Pharmacology, St. Jude Children's Research Hospital, Memphis, TN 38101. An Affirmative Action/Equal Opportunity Employer.
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Candidates must have a Ph.D in chemistry or a related discipline, plus one to two years' experience of environmental pesticide residue analysis together with a working knowledge of plant and animal metabolism, pesticide residues and radioisotope and related laboratory methods.

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We are planning to move to our state-of-the-art facilities currently under construction in scenic Washington Crossing, NJ in early 1992. If you'd like to bring your innovative ideas to an organization that will appreciate them, send your resume with salary history in confidence to: the Janssen Research Foundation, Employment Office Box S391, 40 Kingsbridge Road, Piscataway, NJ 08855-3998. An Equal Opportunity/Affirmative Action Employer M/F/H/V.

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**MOLECULAR BIOLOGIST**

We are looking for a research scientist in the field of molecular biology of rheumatoid arthritis (RA) disease [Takeuchi, F. et al., J. Immunogenet. 16, 475 (1989); Ichikawa, S. and A. Kaji, J. Biol. Chem. 264, 20504 (1989)]. The candidate must have had experience of recombinant DNA technology and knowledge of immunology, with either a master's degree plus research experience or a Ph.D. degree. The research to be undertaken will be the genetic library construction and its cloning of RA related proteins.

**Candidate** will conduct research at either of the following: Department of Internal Medicine and Physical Therapy, University of Tokyo, or Department of Microbiology, School of Medicine, University of Pennsylvania. The salary is in the range of $25,000 to $30,000 annually.

For informal inquiries, please contact one of the following: Dr. Futoshi Takeuchi or Dr. Kunio Matsuta, Department of Internal Medicine and Physical Therapy, University of Tokyo, Tokyo, Japan, telephone: 03-3815-5411 (ext. 8331), or Dr. Akira Kaji, Department of Microbiology, School of Medicine, University of Pennsylvania, 309 Johnson Pavilion, Philadelphia, PA 19104–6076, telephone: 215-898-8288.

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You will provide statistical analysis of data from our clinical centers. In addition, you will generate timely reports for FDA/NIH submissions as well as handle graphical presentations for medical and scientific journals. To qualify, you must have an M.S. in biostatistics plus a B.S. in biology or chemistry, or equivalent. Three years of data analysis experience in the medical device and drug industry is required. You must additionally have knowledge of PC software. Familiarity with cardiovascular and cardiac medical research preferred. At Novacor, you will find the salaries attractive and the benefits very competitive. Our superb waterfront location in the Oakland Airport Business Park is just part of our outstanding environment. Send resume to: Marlan Stier, Personnel, 7799 Fardale Lane, Oakland, CA 94621. Telephone: 415-568-8338. Equal Opportunity Employer.

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Unique and challenging opportunity for an innovative young molecular biologist is available immediately to develop staining protocols for automated, quantitative, multiparameter fluorescence image cytometry of cervical smears and breast biopsies and fine needle aspirate specimens. Ph.D. and a strong background in molecular biology or a related field is required. The applicant should ideally have experience in antibody labeling, in situ hybridization, fluorescent labels, PCR, autoradiography, Western and Southern blotting, and tissue culture. Salary will be commensurate with experience. Please send a detailed curriculum vitae, description of research interests, and three letters of recommendation to: Dr. Brian Herman, Associate Professor, Department of Cell Biology and Anatomy, University of North Carolina at Chapel Hill, CB# 7090, 232 Taylor Hall, Chapel Hill, NC 27599. An Affirmative Action/Equal Opportunity Employer, M/F/H/V.

**BONUS CIRCULATION FOR YOUR CLASSIFIED AD AT FASEB/ASMB MEETING**

Our issue of 5 April 1991 will be distributed to attendees of the 1991 FASEB/ASMB Meeting in Atlanta, Georgia. Deadline for submission of line classified ads: 21 March 1991.

**POSITIONS OPEN**

**AMERICAN SOCIETY FOR MICROBIOLOGY (ASMB)**

**Research Scientist**

The Tobacco and Foreage Research Unit, Agricultural Research Service, United States Department of Agriculture, in Lexington, Kentucky, is accepting applications for the following position: **RESEARCH GENETICIST** (PLANTS), GS-440-11/12. Assignment presents an opportunity for investigation of improved genetic populations and breeding lines of *Festuca arundinacea* (tall rye grass). Research will utilize wide hybridization, and will focus on the genetics of gene for cold hardiness and gene of plant breeding and genetic stability is required. Usual federal government benefits apply. For further information, contact: Dr. Steven Crofts-Brandan, 606-257-4770. For applications inquiring about vacant positions, applications must be received by 29 April 1991. USDA is an Affirmative Action/Equal Opportunity Employer.

California Institute of Technology (Caltech) is seeking an ASSOCIATE BIOLOGIST to conduct an independent research program in molecular biology of RNA plant and animal viruses. Candidate must have Ph.D. in biology with 3 years of postdoctoral experience, including 2 years of experience in vitro translation systems and both animal and plant viruses. Candidate must have demonstrated ability and knowledge of both RNA and viral RNA systems, including production of very long DNA clones, in sequencing and analysis of RNAs and DNAs, and in site-specific mutagenesis as evidenced by refereed publications. Salary is $35,000 per annum. Caltech is an Equal Opportunity Employer. Women and minorities are encouraged to apply. Please send current curriculum vitae to: Mike Miranda, Assistant Director of Biology, 1566-29, California Institute of Technology, Pasadena, CA 91125.

**RESEARCH ASSOCIATE IN SYNTHETIC ORGANIC CHEMISTRY.** To carry out the design, synthesis, and characterization of new heterocyclic compounds to act as tumor-specific hypoxic cytotoxins and radiosensitizers. The position is available immediately and requires a Ph.D. in synthetic organic chemistry and experience in antitumor research or medicinal chemistry would be desirable. Salary for research associate is $30,000 per annum. Send resumes to: M.T., AA210, SRI International, 333 Ravenswood Avenue, Menlo Park, CA 94025. An Equal Opportunity Employer.

**RESEARCH SCIENTIST**

Cephalon, Inc., a neuroscience biotechnology company, has an opening for a scientist to work on neurotoxic factors. Ideal candidate would have a Ph.D. in molecular biology, biochemistry, or related field, with experience in eukaryotic protein expression systems, cDNA cloning, and protein purification. Applicants should send curriculum vitae to: Dr. S. Meyer, Cephalon, Inc., 145 Brandwyne Parkway, West Chester, PA 19380.

**SENIOR RESEARCH CHEMIST.** Devise and synthesize heterocyclic and organometallic compounds for interaction with DNA, DNA-protein structures, and matrix. Develop methods for assay.丰厚 compensation. Develop computer algorithms for organometallic reagents (e.g., organocobalt and organoiron). Develop new techniques for the synthesis and analysis of organometallic compounds. Experience in the use of computer programs such as Macromodel, Charmm, and Quantum mechanics and quantum chemistry. Must have a legal authority to work permanently in the United States.

**POSITIONS OPEN**

**RESEARCH POSITIONS IN EXPERIMENTAL CARDIOVASCULAR PATHOLOGY.** The Department of Pathology, University of Alabama at Birmingham, is seeking faculty level scientists for basic research in cardiovascular disease mechanisms. Postdoctoral appointees will work within the Division of Cardiology. Experience in cellular or molecular biology is desirable. Replies and curriculum vitae should be mailed to: Jay McDonald, M.D., Ph.D., Microbiology, UAB Hospital, Station, University of Alabama at Birmingham, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Opportunity Employer.

**SENIOR RESEARCH SCIENTIST.** Worldwide supervisory responsibilities in immunology and cell biology. Requires knowledge of cell biology, with demonstrated contributions in immunology/molecular biology. Expertise in immunology development, sample handling, and purifications required, plus wave and pulse exchange for further immunization experience (GMP/ISO 9000 systems preferred). Candidate should have ability and creativity to adapt technological innovations to many disciplines. Send résumé to: Human Resources Manager, Pierce, P.O. Box 117, Rockford, IL 61050.

**RESEARCH SPECIALIST II.** To participate in development of a laboratory model for human disseminated intravascular coagulation. A Ph.D. degree and knowledge of parasitology, developmental biology, gastroenterology, and mathematical modeling of parasite infection is preferred. Requires experience, preferably advanced degree in parasitology/microbiology or B.A./B.S. with 3 to 5 years of experience with appropriate laboratory techniques. Position ends 31 December 1991. Send statement of interest, résumé, salary requirements, and three references to: Dr. G. A. Schad, School of Veterinary Medicine, University of Pennsylvania, 3800 Spruce Street, Philadelphia, PA 19104. An Equal Opportunity/Affirmative Action Employer.

**ASSISTANT RESEARCH IMMUNOLOGIST.** Program in Transplant Immunology is offering a position for a molecular/cellular immunologist with expertise in humoral immunity/immunogenetics. Candidate must have a Ph.D. degree with at least 3 years of postdoctoral employment and/or training in human immunogenetics and the association of human rheumatoid arthritis with HLA system involving: HLA-DQA1 (RA disease), and DQB1 (tallfescue). Required is an M.S. in immunology or related field. Must have strong background in cell biology, molecular genetics as related to histocompatibility, immunology, and the ability to design and implement in vitro and in vivo experiments. Starting salary: $38,000. Position open immediately. Send curriculum vitae to: Marvin E. Garovoy, M.D., University of California, San Francisco, 530 Health Sciences East, Third and Parnassus Avenues, San Francisco, CA 94143-0508.

**RESEARCH ASSOCIATE.** For university in northern Ohio. To study photodynamic therapy (PDT) of solid malignancies and assess its efficacy as an evolving modality for cancer treatment. In particular, this will involve experiments with continuous wave and pulse alexandrite laser for first optimization of the parameters for alexandrite laser lithotripsy; second, determining the effects on biologic tissue of pulsed alexandrite laser in combination with iontophoretically administered chromophores. To treat animal tumors with photodynamic therapy, using different light sources (Ar+ dye lasers and YAG lasers). Must have Ph.D. or A.B.D. in medical science and academic program must have included one course each in: current topics in surgery; light and energy sources; instrumentation and laser interactions in biology; physical and electronic microscopy, and electronic microscopic diagnostic pathology. Must have 2 years of experience as research assistant. Must have ability (as evidenced by academic letters of reference and/or publications and/or employer testimonials) to use different kinds of lasers (including Ar dye, YAG, and Alexandrite lasers), to use laboratory lasers and equipment in animal and in human experimentation, to be present during, or after required degree. Forty hours per week, 5 days per week, 50 hour per month or to work permanently in the United States. Send résumé and course transcript in duplicate (no calls) to: J. Davies, JG# 981, Ohio Research Services, P.O. Box 1618, Columbus, OH 43216.
The Agricultural and Food Research Council will be appointing up to six postdoctoral fellows in 1991.

The fellowships are to enable a small number of outstanding research workers to devote a significant period to full time research. They are tenable in any of the areas of research funded by AFRC—agriculture, food, biological sciences and related areas in the physical sciences and engineering—and at any appropriate UK higher education institution or research institute prepared to receive the fellow. Applicants are responsible for making their own arrangements with the intended host institution. The fellowships will normally be for 5 years, with the possibility of renewal.

Applicants should be postdoctoral scientists. There are no age limits, but the Council wishes a proportion of the fellows to be research workers already having significant postdoctoral experience. Applications will be considered from UK nationals, including those returning from a temporary absence abroad and scientists ordinarily resident in the UK. The value of the fellowships is based on the UFC scales for non-clinical academic staff. In addition, the fellow will receive an allowance during the period of the award (£25k in the first year) to help provide technical support, consumable costs etc. Fellows are eligible to apply for AFRC research grants.

Application forms and further details of the fellowships can be obtained from the AFRC Higher Education Branch, Wiltshire Court, Farnsby Street, Swindon, SN1 5AT (Tel 0793 514242 Ext 379). Applications should be submitted by 31 May 1991.
POSCS E N O P E S

ANALYTICAL BIOCHEMIST

Position available immediately for an individual to work at ManTech's Toxic Hazards Research Unit in Dayton, Ohio. Experience in the isolation and identification of xenobiotics and their metabolites in biological tissues is desired. The position requires good communication skills and the ability to interact cooperatively with multidisciplinary teams. Position requires a Ph.D. in chemistry or a master's degree with 2 years of relevant experience with evaluation.

Interested individuals should send curriculum vitae, together with names and addresses of three references, to: Human Resources/03, ManTech Environmental Technology, Inc., A Subsidiary of ManTech International Corporation, P.O. Box 31099, Dayton, OH 45431.

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STAFF SCIENTISTS

The Lawrence Berkeley Laboratory's Energy Analysis Program is seeking highly qualified scientists for career positions in three areas:

- **ENERGY ECONOMIST** (C/891): Concentrations on industrial countries with some focus on Soviet Bloc countries or major regions of the developing world. Requires fluency in at least one European language or Japanese, good reading knowledge of at least two European languages. Prefer Ph.D. in economics, geography, or an interdisciplinary transportation or energy-related discipline.

- **ENERGY AND ENVIRONMENTAL ANALYSIS** (C/6089): Analysis of economic and environmental impacts or reductions in electricity sales at utility service area and national levels; energy demand and environmental forecasting; analysis of energy conservation supply curves. Prefer Ph.D. in energy-related discipline.

- **ENERGY AND ENVIRONMENTAL ANALYSIS** (R/6277): Coordination of projects promoting energy efficiency policy innovation in developing countries with special emphasis on China and Southeast Asia. Prefer Ph.D. in energy-related discipline.

To apply or receive detailed position descriptions, submit resume to: Lawrence Berkeley Laboratory, Employment Office, Building 90/1042 (specify Job Numbers above), 1 Cyclotron Road, Berkeley, CA 94720. An Equal Opportunity Employer, M/F/H.

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RESEARCH SCIENTIST, BACTERIAL GENETICS AND PHYSIOLOGY: Medical Science Partners in Berkeley, CA, is seeking a bacterial geneticist at the postdoctoral level for a private biotechnology project to explore and develop a novel method for selecting ways to introduce hyperproducer metabolites into bacteria. Position requires Ph.D. in genetics, biochemistry, microbiology, or a related discipline. Send curriculum vitae, statement of research interests, and names of three references to: Medical Science Partners, 68 Harvard Street, Brookline, MA 02146.

RESEARCH ASSOCIATE, GENOME ANALYSIS: A position is available immediately to study mouse tumor suppressor genes. A candidate with a strong background in molecular genetics, or molecular or tumor biology, and 0 to 3 years of postdoctoral experience will fill this 5-year, NIH-funded position at a starting salary of $25,000. Applied Genetics Laboratories (AGL), located on the east coast of central Florida, is closely associated with nearby university and high tech facilities. Call or write for details and to inquire about independent research programs. Submit curriculum vitae, statement of research interests, and names of three references to: Dr. Lisa M. Berthoud, AGL, Inc., 1335 Gateway Drive, Melbourne, FL 32901.

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COURSES AND TRAINING

9TH SUMMER INSTITUTE IN RISK MANAGEMENT IN ENVIRONMENTAL HEALTH AND PROTECTION (a four-week long, four-credit assessment). 4 to 7 June 1991. Risk management (laws, finance), risk communication, risk assessment (exposure, toxicology, human factors); hazardous waste applications. Bachelor's degree required. Write: Summer Institute in Risk Management, Robert F. Wagner Graduate School of Public Administration, 4 Washington Square North, New York, NY 10003, or telephone Professor Zimmerman: 212-998-7432.

WORKSHOP ON MOLECULAR EVOLUTION, 18 to 30 August 1991. This workshop will consist of a series of lectures, discussions, and computer workshops for the analysis of molecular data. Lectures on the theoretical basis of comparative sequence analysis, phylogenetic tree construction, and current topics in molecular evolution will be presented. Enrollment limited to 60 students. Director: Mitchell L. Sogin, Center for Molecular Evolution, Marine Biological Laboratory, Application deadline: 15 March 1991. For further information and application forms, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, ext. 216.

GRADUATE SCHOLARSHIP IN PLANT NUTRITION: Penn State's Department of Horticulture is accepting applications for the Walter Thomas Memorial Scholarship, which provides tuition and stipend for graduate study in plant nutrition. Potential areas of research include nutrient use efficiency, root biology, and plant adaptation to insect pests. Applicants are encouraged to send a statement of interest and academic transcripts to: Dr. Jonathan Lynch, Department of Horticulture, The Pennsylvania State University, 102 Tyson Building, University Park, PA 16802 by 30 April 1991.

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METHODS IN COMPUTATIONAL NEUROSCIENCE: 4 to 31 August 1991. This course is for 20 doctoral students, postdoctoral fellows, and faculty in neurobiology, physics, electrical engineering, computer science, mathematics, or psychology with an interest in computational neuroscience. A background in programming (preferably in C and UNIX) is highly desirable. Directors: James M. Bower, Christof Koch, Professors, Laboratory for Neurosciences, Institute for Neuroinformatics, California Institute of Technology. Partial financial aid is available to qualified applicants. Application deadline: 15 May 1991. For further information and applications, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, ext. 216.

COURSES AND TRAINING

CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND PHYSICAL SCIENTISTS

A 1-week intensive COURSE sponsored by the Massachusetts Institute of Technology (MIT) to be held from 17 to 21 June 1991, Cambridge, Massachusetts. Dr. Richard J. Cohen, Program Director. Basic principles of cardiovascular physiology, cardiovascular medicine, diagnostic and therapeutic technologies. Contact: Director of the MIT Summer Session, 617-253-2101.

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This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

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