PERSONNEL PLACEMENT

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing. No advertising will be accepted after 2 weeks prior to the issue in which it appears. Advertising is set by the discretion of the publisher. The publisher assumes no responsibility or liability for arguments expressed in advertising.

A REFERENCE CATALOGUE AND ATLAS OF GALACTIC NOVICE


POSITIONS WANTED

Microbiologist, M.S. seeking employment as research assistant or lab technician. Have over 2 years of laboratory experience in protein purification, column chromatography, bacterial cell culture, spectrophotometry, electron microscopy. Trained in microbial genetics and physiological, medical, molecular biology, immunology, histochemistry, electron microscopy. David Lambert, 1999 S.W. 17th Street, Willmar, MN 56201; 612-235-7518.

Microbiologist, Ph.D. Research experience in genetics, microorganisms, isolations, and manipulations in rDNA. Experience in microbial, bacterial, and genetic transformation of anaerobic bacteria. Interested in genetics, plasmid molecular biology, food technology, engineering.References: SE, Japan, and international or faculty level academic position. Box 18, SCIENCE.

Ph.D. Biochemist. Two years of postdoctoral experience in protein chemistry and enzymology. Strong publication record. Seeks postdoctoral position in Canada. Box 23, SCIENCE.


Scientific Programming. Advanced scientific degree and extensive experience in design and development of scientific applications. IBM and Apple VAX experience. Seeks long or short-term projects. Box 36, SCIENCE.

POSITIONS OPEN

ACADEMIC POSITION IN MEMBRANE BIOLOGY
Department of Physiology seeks applications for a tenure-track faculty position, in the assistant professor working in membrane biology. The department tries to maintain a good environment for early-career scientists. Please send a statement of your research plans and dreams, curriculum vitae, and the names of a few scientific friends with you and your referees. Jorge Eisenberg, Chairman, Department of Physiology, Rush Medical College, 1750 West Harrison, Chicago, IL 60612.

Eastern New Mexico University invites applications for ASSISTANT PROFESSOR, tenure-track position. Responsibilities: Teaching in general botany, vascular plant systemsatics, plant anatomy, plant physiology, and introductory courses in general biology, active research, university service. Qualifications: Ph.D. in field appropriate to above description of duties. Effective date: 23 August 1988 pending funding. Send letter of application describing teaching and research interest, curriculum vitae, and three letters of recommendation to: Dr. Newel Jorgensen, Chair, Search Committee, Department of Life Sciences, #333, Eastern New Mexico University, Portales, NM 88130 by 20 March 1988. ENU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR: A position in exercise physiology for a Ph.D. with postdoctoral research experience in muscle and its response to exercise. Individuals will be expected to obtain external funding, attract graduate student and postdoctoral interest. Starting date: 10 August 1988. Submit letter of application, curriculum vitae, three reprints, and three letters of recommendation to: Chairman of the Search Committee; R. M. Enoka, Ph.D., Department of Exercise and Sport Sciences, University of Arizona, Tucson, AZ 85721. Application deadline 11 March 1988. An Affirmative Action/Equal Opportunity Employer.
ACADEMIC LABORATORY PATHOLOGIST—The Department of Pathology at the University of Pittsburgh is seeking a molecular pathologist with interest and experience in laboratory medicine for a full-time faculty position at the assistant professor level. The successful candidate will have experience and interest in teaching, research, and providing comprehensive laboratory services in an adult ambulatory care setting. Candidates must be Board-certified or eligible in CLIP through eligibility certification in both ACP/SC. Applicants with research interests in laboratory medicine are encouraged to apply. Responsibilities also include medical student and resident education. Inquiries with applications must be submitted in writing to Dr. Joseph Geraci, Department of Pathology, 776 Scaife Hall, University of Pittsburgh, Pittsburgh, PA 15261.

ANATOMIST—UNIVERSITY OF CALIFORNIA, SAN DIEGO VISITING PROFESSOR position open to teach gross anatomy at the UCSD College of Medicine, Department of Surgery, Anatomy Division. Qualifications include: Ph.D. in anatomy or M.D. with equivalent training; Professor-level experience in teaching medical students gross anatomy with a strong clinical orientation; Established expertise as a teacher in the University of California system and ability to teach within an academic setting. Four-month appointment (September through December 1988). Salary dependent on academic date. Successful candidate may be reappointed in future years. Send curriculum vitae and names of three academic references to: Dr. John A. R. E. Bell, Professor of Medicine, Department of Surgery, 225 Dickinson Street, San Diego, CA 92103.

ASSISTANT PROFESSOR OF BIOLOGY. Applications are invited for the position of assistant professor of biology, with an appointment beginning mid-August 1988. A Ph.D. in cellular/molecular biology is required, and some teaching experience in biotechnology and science education would be desirable. Responsibilities will include first-year biology courses and cell biology. The University of Houston—Downtown is an urban undergraduate institution with an enrollment of 7,200. Send a letter of application, résumé, and the names and addresses of four references to: Dr. A. L. E. L. T. A. Williams, Department of Natural Sciences, University of Houston—Downtown, One Main Street, Houston, TX 77002. Applications should be postmarked by 8 March 1988. The University of Houston—Downtown is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF Virology. The Department of Ophthalmology and Virology of Baylor College of Medicine seek an innovative scientist to develop an independent research program on herpes viruses infections also include research interests in these fields. Salary is commensurate with experience. Negotiable starting date. Send curriculum vitae, names of at least three references, and a statement of research interests to: Dr. K. R. W. E. L. R. W. Wilhelms, Chairperson—Search Committee for Molecular Virologist Position, Department of Ophthalmology, Callen Eye Institute, Baylor College of Medicine, One Baylor Plaza (NC200), Houston, TX 77030. Equal Opportunity Employer.

ASSISTANT RESEARCH PHYSICIST. Applications are solicited for the position of assistant research physicist with expertise in high vacuum and thin films. Salary range will be $36,500 to $37,800 for 12 months, depending on qualifications. A Ph.D. degree in physics or related field is required. Experience in the following areas is important: Ultra high vacuum methods, modern surface science electron spectroscopies, including AES, LEED, and XPS; laser Raman scattering spectroscopy; electron spectroscopy for chemical analysis; radiation coupling to surface modes of thin films; Fourier transform mass spectrometry methods; pulsed laser technology. The successful candidate should contact: Professor John C. Hemminger, Department of Chemistry, University of California, Irvine, CA 92717. UCI is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT DEAN MEDICAL SCIENTIST TRAINING PROGRAM. The University of Texas Southwestern Medical Center at Dallas seeks a medical student for its expanded Medical Scientist Training Program, a dual degree program that awards both M.D. and Ph.D. degrees. The candidate must complete a rigorous course of study and research in medicine and biomedical science. The Medical Scientist Training Program is one of twenty-five M.D./Ph.D. programs around the country that are funded by the National Institutes of Health. A large gift from Mr. Ross Perot has enabled Southwestern to develop an innovative and selective program while ensuring that the very best students, wherever they may be, are attracted to it. The Assistant Dean will be expected to build a network of professional contacts, particularly among premedical advisors, science advisors, and science department chairs at colleges and universities. This person will also be responsible for developing and maintaining an extensive database of individuals interested in student recruitment, will plan and undertake numerous recruiting trips, and will provide support and coordination to the faculty as they assist in recruitment and admissions. The Assistant Dean will also assist the Director of the Program in administrative matters and will plan and coordinate activities for students enrolled in the Program.

The University seeks an energetic, enthusiastic, and articulate individual who understands biomedical science and is interested in helping build a new research program. A commitment to the highest standards and the ability to recognize excellence are essential. A doctoral degree is desirable. Undergraduate teaching experience is also desirable. The position carries an attractive salary and fringe benefits commensurate with applicant qualifications. Resumes and letters of interest or nomination should be sent no later than 1 March 1988, to: Dean's Office Southwestern Medical School The University of Texas Southwestern Medical Center at Dallas 5323 Harry Hines Boulevard Dallas, TX 75235—9003 An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF OPERATIVE DENTISTRY. RECONSTRUCTIVE SURGERY. Applicants must have a specialty interest in bone histomorphometry. Applicants must have completed an approved spine fellowship and be capable of performing advanced spinal reconstructive surgery. Send curriculum vitae and statement of research interests to: Dr. C. R. W. E. W. Wilhelms, Chairperson—Search Committee for Reconstructive Surgery. The University of Texas Health Science Center at Houston, One Baylor Plaza (NC002), Houston, TX 77030. Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR BIOCHEMISTRY/BIOPHYSICS WASHINGTON STATE UNIVERSITY. The Biochemistry/Biophysics Program is seeking to fill a tenure-track position beginning August 1988 or later. Appointment will be at the assistant or associate professor level. Applicants should have research interests and experience in structural and molecular biophysics, structural biology, and biophysical approaches to problems in medicine, and should have a Ph.D. degree in biochemistry or a closely related discipline. Send Curriculum Vitae and a statement of research experience and plans to: Dr. L. H. A. S. R. J. Rice, Search Committee Chair, Department of Biochemistry/Biophysics, Washington State University, P.O. Box 641310, Pullman, WA 99164—4600. Deadline is 15 March 1988 or until position is filled.

ASSISTANT RESEARCH SCIENTIST. Position immediately available for Ph.D. with 1 to 2 years of experience. A background in molecular biology and/or molecular biology is necessary. Applicants using a contum- porary approach are particularly encouraged to apply. Please submit curriculum vitae, postdoctoral research plans, and a list of references as well as names of three referees to: Joan Harmon, Personnel Department, NTU Medical Center, New York, NY 10016. An Equal Opportunity Employer/F.

ASSISTANT/ASSOCIATE PROFESSORS IN BIOLOGY. Two tenure-track positions available in an expanding Department of Biological Sciences. The Department is well equipped and has modern programs in molecular biology, genetics, and cell biology. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics.

ASSISTANT/ASSOCIATE PROFESSOR OF PHYSIOLOGY AND PHARMACOLOGY Loyola University of Chicago at the Medical Center is seeking candidates for a tenure-track position at either the assistant or associate professor level. The Department of Physiology and Pharmacology is a research-oriented department with a strong emphasis on cardiovascular and respiratory physiology. The successful candidate will have a Ph.D. degree in cardiovascular or pulmonary physiology and interest in teaching at the undergraduate and graduate levels. A successful application will include a letter of interest, research statement, and curriculum vitae along with a list of three references. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY Loyola University of Chicago at the Medical Center is seeking candidates for a tenure-track position at either the assistant or associate professor level. The Department of Pharmacology and Toxicology is a research-oriented department with a strong emphasis on cardiovascular and respiratory physiology. The successful candidate will have a Ph.D. degree in cardiovascular or pulmonary physiology and interest in teaching at the undergraduate and graduate levels. A successful application will include a letter of interest, research statement, and curriculum vitae along with a list of three references. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics. The University of Arizona, Tucson, Arizona, is a major research university with large faculty and strong research programs in molecular biology and genetics.

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IMMUNOCHEMIST - IMMUNOLOGIST
For Studies of Cytochromes P-450
Laboratory of Molecular Carcinogenesis
NATIONAL CANCER INSTITUTE
Position of Senior Staff Fellow or Expert to use immunological and immunochromatographic approaches, particularly monoclonal antibodies to study cytochrome P-450 immunochromatography, their multiplicity, structure and function, their role in the metabolism, activation and detoxification of xenobiotic carcinogens, drugs and endogenous compounds.
Salary Range: $20,688-$44,430. Applicants must be U.S. Citizens, permanent residents, or non-citizens from a treaty-allied country. Send curriculum vitae and three reference letters to Dr. Harry V. Gelboin, Chief, Laboratory of Molecular Carcinogenesis, National Cancer Institute, National Institutes of Health, Bldg. 37, Rm. 3E24, Bethesda, Maryland 20892.

PHYSICAL BIOCHEMISTRY
G.D. Searle is a worldwide leader in the pharmaceutical industry. Expansion within our Drug Delivery area has created an outstanding opportunity for a Research Scientist who can combine an understanding of the physical nature of proteins and peptides derived from biotechnology with interdisciplinary teams working on drug delivery systems.
Key responsibilities include:
Develop, implement, and execute methods and procedures to characterize the physical and chemical properties of proteins, peptides, and small organics.
Interact with interdisciplinary teams to develop delivery systems for particular proteins, peptides, and small organics.
Direct scientists and provide "hands on" support when necessary to accomplish projects.
Qualifications include a Ph.D. in Physical Biochemistry or related field and 3-5 years of laboratory experience in the characterization of physical and chemical properties of biological molecules. Well developed oral and written skills required.
This position offers an excellent salary, high visibility, and a comprehensive benefits package. Our location offers access to a variety of cultural and recreational facilities, several fine universities and active scientific community. Please submit your resume in strict confidence to: G.D. Searle & Co., Professional Staffing, Dept. HG, 4901 Searle Parkway, Skokie, IL 60077. An Equal Opportunity Employer.

AFFINITY CHROMATOGRAPHY CHEMIST
Sigma Chemical Company, a leading manufacturer of biochemicals and organic compounds, is seeking a Biochemist/Chemist for its affinity chromatography group. The successful candidate will have a degree in Chemistry or Biochemistry and experience in affinity chromatography preparation techniques. Responsibilities include bench level production of affinity media, protein purification and new product development. The position requires ability to do independent work as well as strong written and verbal communication skills.
Sigma offers competitive salary and full company paid benefits. Please send resume with salary history in confidence to:
Personnel Manager (CAM)
SIGMA CHEMICAL COMPANY
P.O. Box 14508
St. Louis, MO 63178
An Equal Opportunity Employer

IN OUR PHARMACOLOGICAL R&D LABS
THE FOCUS IS ON INNOVATION
For creative scientists, BERLEX Laboratories provides the ideal setting to initiate innovative projects. We are a growing pharmaceutical company and a leader in pharmaceutical R&D, and at our Cedar Knolls, NJ facility, you can work on one of the industry's most talented teams of research professionals.

SECTION HEAD OF BIOCHEMICAL PHARMACOLOGY
Direct the work of several Ph.D. scientists and biologists in a multidisciplinary environment to initiate novel research in cellular aspects of cardiovascular diseases. At the same time, you will be encouraged to pursue your own scientific interests. The biochemistry section includes a new cell culture facility for basic research in vascular and cardiac pharmacology.
To qualify, you should be a well-recognized professional in an area of biochemistry/pharmacology related to cell biology, and have demonstrated excellence in scientific creativity. At least 5 years of postdoctoral experience is essential, as are good communication skills and the ability to work in a team environment.

POSTDOCTORAL RESEARCH SCIENTIST
Work with biologists and chemists on new approaches to the treatment of cardiovascular diseases and initiate novel research in a multidisciplinary environment.
To qualify for this two year appointment, you must be a Ph.D. in an area related to muscle/endothelial cell biology.
BERLEX provides a generous salary, comprehensive benefits, and unusual opportunities for growth. Send your CV with salary history, in strict confidence, to: LILA BERNESTEIN, Manager, Human Resources, R&D. Dept S, BERLEX LABORATORIES, INC., 110 E. Hanover Avenue, Cedar Knolls, New Jersey 07927. Equal Opportunity Employer M/W/H.
ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

The Department of Energy (DOE) is seeking applicants for a tenure-track position available 1 June 1988. Responsibilities include teaching in a team-taught pharmacology course and directing research in pharmacology. Experience in neuropharmacology of special interest. Undergraduate pharmacy degree also desirable. Instructional candidates should submit curriculum vitae and names of three references to: J. Mark Winston, Ph.D., College of Pharmacy and Health Sciences, Drake University, 2824 Forest Avenue, Des Moines, IA 50311. An Equal Opportunity/Affirmative Action Employer.

U.S. DEPARTMENT OF ENERGY
ASSOCIATE DIRECTOR FOR HEALTH AND ENVIRONMENTAL RESEARCH
OFFICE OF ENERGY RESEARCH

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ASSOCIATE RESEARCH SCIENTISTS (two positions) to study microvascular blood flow by intravital microscopy in sickle cell disease and other blood disorders. Responsible for designing and performing experiments in physiology, or pathology. Related experience desirable. Send curriculum vitae with names of three references to: Dr. Herbert H. Lipowsky, Department of Physiology and Cellular Biophysics, College of Physicians and Surgeons, Columbia University, 630 West 168 Street, New York, NY 10032. Columbia University is an Equal Opportunity Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR OF PHARMACOLOGY

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BIOCHEMISTS

BioActive Inc. is a rapidly growing company involved in the development of biomedical and agrichemical products in the areas of tissue engineering and biotechnology. The successful candidate will be responsible for designing and conducting research in these areas. The candidate will be expected to develop experimental systems for the study of tissue injury and regeneration and to understand the underlying cellular and molecular mechanisms. The successful candidate will be expected to develop a research program that is funded by the National Institutes of Health (NIH). Experience in tissue engineering and/or biotechnology is required. Experience in research training and education at one or more institutions is desirable. The candidate must be able to communicate effectively in both oral and written forms. The candidate must have a Ph.D. in biochemistry or a related field. The salary is commensurate with experience and qualifications. The position is immediately available.

The University of Florida is an Equal Opportunity/Affirmative Action Employer and supports a drug-free workplace. Applicants are encouraged to apply.

BIOLOGY
HARTWICK COLLEGE

Applications are invited for two full-time positions. Commitment to excellence in teaching and the Ph.D. (or near completion) are required.

(i) DEVELOPMENTAL BIOLOGY—A tenure-track position, to teach embryology, comparative anatomy, general biology, and a new course in the area of development for non-majors, and to direct undergraduate research in animal development. A strong molecular biology background is desirable.

(ii) ECOLOGIST—A 3-year appointment with the possibility of renewal, to teach ecology (upper-level course for majors), evolution, forest ecology, and a course in area of expertise, and to direct undergraduate research in ecology. A strong statistical background is preferred.

Send letter of application, résumé, and three letters of reference by 26 February 1988 to: M. Richard Segina, Chair, Department of Biology, Hartwick College, Oneonta, NY 13820. An Equal Opportunity Employer.

COLLECTION MANAGER DIVISION OF FISHES

Field Museum of Natural History, Division of Fishes seeks to fill full-time staff position having primary responsibility for the maintenance and care of collection of world-wide scope. Duties include identification, curation, loan management as well as responding to scientific and public inquiries. Will also be expected to coordinate with cataloguing and skeletal preparation programs, and to supervise student and volunteer assistants. Opportunities for teaching and participation in field work and research. B.S. and 3 years of experience in major museum or related equivalent research and conservation and computer experience desirable. Send curriculum vitae with names and telephone numbers of three references and statement to: Kathryne L. Hill, Field Museum of Natural History, Roosevelt Road at Lake Shore Drive, Chicago, IL 60605. Application deadline is 26 February 1988. Field Museum is an Equal Opportunity Employer. Women and minorities encouraged to apply.

DIRECTOR INTERDISCIPLINARY CENTER FOR BIOTECHNOLOGY RESEARCH THE UNIVERSITY OF FLORIDA

The University of Florida is seeking candidates for the position of Director of the Interdisciplinary Center for Biotechnology Research. The Center was founded in March 1987 to foster research in the molecular life sciences, and is funded by a special legisla
tive initiative. The Director will coordinate all biotechnology activities at the University of Florida. Applications from individuals with an earned doctorate and a strong record of accomplishment in scholarship and administration are encouraged. Candidates should provide curriculum vitae, a brief description of current activities, and three letters of reference to:

Roxanna M. Bruce
Office of the Vice President for Research
233 Ginter Hall
University of Florida
Gainesville, FL 32611

The closing date for applications is Friday, 1 April 1988.

The University of Florida is an Affirmative Action/Equal Opportunity Employer.
DEAN, DENTAL SCHOOL
THE UNIVERSITY OF TEXAS
HEALTH SCIENCE CENTER
SAN ANTONIO, TEXAS

Nominations and applications are invited for the position of Dean of the Dental School of The University of Texas Health Science Center at San Antonio. In addition to its interest in innovative teaching, the Dental School has a special commitment to scholarship and research, an expanding program of community service, and comprehensive patient care. Teaching, research and community programs are enhanced by close integration with programs and faculty of the other schools of the Health Science Center—the Graduate School of Biomedical Sciences, the School of Medicine, the School of Allied Health and the School of Nursing. The Dental School enrolls 368 students in the undergraduate program and 91 students in the graduate residencies and Master's programs, which include Dental Diagnostic Science, Endodontics, Periodontics, Pediatric Dentistry, Prosthodontics, Oral Surgery, the General Practice Residency Program and the Advanced Education in General Dentistry Program.

Candidates must have prior experience in academic administration, planning, and fiscal matters, as well as an established record of scholarship and research. The Dean reports to the President of the Health Science Center, provides leadership for the dental school's 207 full and part-time faculty, participates in governance of the University through membership on the Health Science Center's Executive Committee, and works closely with the dental practicing community.

All nominations and applications should be received by March 31, 1988. Further information is available from and nominations and applications, including a curriculum vita, should be submitted to:

Joseph M. Berrong, D.D.S.,
Chairman, Dental Dean Search Committee
The University of Texas N.S.C.
Department of General Practice
7783 Floyd Curl Drive
San Antonio, Texas 78284-7814
(512) 587-3468
The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF HEALTH AND HUMAN SERVICES
PUBLIC HEALTH SERVICE
NATIONAL INSTITUTES OF HEALTH
NATIONAL INSTITUTE OF DIABETES AND DIGESTIVE AND KIDNEY DISEASES

OPENING DATE: January 18, 1988
CLOSING DATE: March 4, 1988

(Applications must be postmarked before closing date)

Position: Director, Division of Digestive Diseases and Nutrition

The National Institute of Diabetes and Digestive and Kidney Diseases invites nominations and applications for the position of Director, Division of Digestive Diseases and Nutrition (DDN). The candidate must be internationally recognized within the scientific community as an authority in digestive diseases. In addition, the candidate should demonstrate an interest and a commitment to nutrition research. This Institute conducts, fosters, and supports research and research training in the prevention, management, and cure of diabetes and related endocrine and metabolic diseases; kidney, urologic and hematologic diseases, and digestive diseases and nutrition. Programs encompass intramural laboratory research and external (grants and contracts) activities in fundamental diabetes and kidney disorders.

The incumbent serves as the primary official with responsibility for planning and executing the Institute's digestive diseases and nutrition extramural programs. This includes basic and applied research, training fellowships, institutional training awards, multipurpose research centers, clinical trials, and data collection. Advises and participates with the outside voluntary health organizations and the National Advisory Council in identifying and acquiring disease and nutrition needs. Programs are extramural, for research and manpower development in the digestive diseases and nutrition disorders. Additionally, the incumbent serves as principal advisor to the Institute Director on matters and policies pertaining to these areas.

Also, the incumbent will conduct intramural research projects in the areas of digestive disorders and nutrition.

This is a Civil Service position in the Senior Executive Service (SES), with a salary range from $64,760 to $73,400 per annum, depending on qualifications. Currently the payable salary is limited to $73,400. Physicians may be eligible for an additional comparability allowance up to $10,000 per year. (Alternatively, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service). Mandatory professional/technical qualifications are a medical degree and research program administration and/or clinical experience in digestive diseases and nutrition. Further information on these qualifications are available by contacting Mr. Syd Carter, Personnel Management Specialist, National Institute of Diabetes and Digestive and Kidney Diseases, 9000 Rockville Pike, Building 31, Room 9A30, Bethesda, Maryland 20892, (301) 496-4231.

Mandatory managerial/executive qualifications include evidence of management of a basic or clinical research program, demonstrating ability to assume leadership responsibilities in developing program goals; representing the program to outside groups; directing program planning, execution, and evaluation; and conducting a fair and equitable employment program, including the attainment of EEO objectives.

Candidates who meet the mandatory qualifications will be further evaluated by the Search Committee on the degree to which they exceed the mandatory managerial/executive qualifications, and on the following desirable qualifications: scientific reputation/peer recognition, training and education, leadership of a basic or clinical research or research administration program, and honors and awards.

APPLICATIONS (APPLICATION FOR FEDERAL EMPLOYMENT SF-171 should be sent to Mr. Clifford Moss, Executive Secretary, Search Committee for Director, DDN, Building 31, Room 9A30, National Institute of Diabetes and Digestive and Kidney Diseases, Bethesda, Maryland 20892, telephone (301) 496-4231.

A current curriculum vitae and bibliography must accompany all applications. Applications from women and/or minority group members are especially solicited.

NIH IS AN EQUAL OPPORTUNITY EMPLOYER

PROJECT MANAGER

Land and Water Quality Studies

EPRI, on the San Francisco Peninsula, an R&D firm chartered to provide research and development for all segments of the U.S. electric utility industry, seeks a senior professional to develop technical requirements and to initiate and manage research contracts in land and water quality studies. Specifically, you will develop research concepts, prepare project implementation strategies, and manage research on the environmental behavior and fate of chemicals (especially organics) discharged by utility operations.

Candidates will have a PhD/Earth Sciences (or equivalent related field), 5-10 years experience in conducting and directing research in groundwater quality and soils contamination, experience in conducting geochemical and hydrochemical experiments and modeling. Proven management ability in contract research and good communication skills required. Knowledge of electric utility industry wastes desirable.

EPRI offers a stimulating environment, competitive salaries and comprehensive benefits. For immediate consideration, please send your resume, including salary requirements, to D. Staten, Human Resources Dept. SCI-783, EPRI, 3412 Hillview Avenue, P. O. Box 10412, Palo Alto, CA 94303. An equal opportunity employer.
PhD Immunologist/Cell Biologist

Genentech, Inc., a leader in the field of biotechnology, is currently seeking a Postdoc in Protein Biochemistry to characterize growth hormone binding and signal transduction by the growth hormone receptor. To qualify, you should be able to apply a variety of methods to the purified, solubilized receptor including spectroscopic analysis, chemical modification, monoclonal antibody mapping, limited proteolysis and conformational analysis. A background in chemistry and experience with receptors or membrane proteins would be a plus.

Genentech, Inc. offers an excellent salary and benefits package, coupled with the opportunity to make a significant contribution to our organization. Please send resume to: Sherrie D.L. Wilkins, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

Manager of Toxicology and Animal Research

XOMA Corporation, a leading biotechnology company located in the San Francisco Bay Area is currently in search of a PhD to assume the scientific & administrative direction of the Toxicology & Animal Research Department. This hands-on manager will be responsible for acute and subchronic toxicology studies under GLP guidelines, pharmacokinetic and tissue distribution studies and efficacy studies using model systems appropriate for product development programs.

The ideal candidate will possess a PhD in Pharmacology, Toxicology or related discipline. 3-5 years post doctoral experience and experience with tumor model systems and GLP toxicology studies.

To explore this opportunity further please send your CV and salary history to:

Director of Human Resources
XOMA Corporation
2910 7th St.
Berkeley, CA 94710

EOE
DIRECTOR OF CLINICAL RESEARCH

Nelson Research & Development Company headquartered on the University of California campus in Irvine — adjacent to the medical school — is a small, highly creative research company committed to the discovery and development of new drugs.

Our recent acquisition by the Ethyl Corporation affords us the opportunity to expand our Product Development activities. As part of this expansion, we have the need for a dynamic individual to head our Clinical Research Department.

Reporting to the Vice President of Development, you will be responsible for initiating, planning and coordinating all clinical trials to support product registration of our novel therapeutic agents worldwide.

The ideal candidate will hold a Ph.D. or M.D. and will have a minimum of 5 years industrial experience or a demonstrated academic research achievement in a clinical facility. Excellent oral and written communication skills are obviously essential.

The position offers a rare challenge and unique opportunity for professional growth along with the chance to contribute to the overall success of a growing Company.

Nelson Research offers a professional environment and competitive salary and benefits. Interested candidates may send their resume with salary history to:

Personnel Manager
Nelson Research & Development Company
1001 Health Sciences Rd. West
Irvine, CA 92715

An Equal Opportunity Employer

SENIOR ASSISTANT SCIENTIST
PHARMACOLOGY

Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company has an immediate opening for a research scientist for our cardiovascular drug discovery/development program. This individual will assist in developing testing procedures, conduct experiments, analyze experimental data, and prepare research reports. The successful candidate will have a strong background in cardiovascular research and will possess the requisite technical skills.

QUALIFICATIONS: MS in physiology or pharmacology with emphasis in cardiovascular research, or BS with 2-3 years of experience in cardiovascular pharmacology. Experience working with laboratory animals and good communication skills are essential.

Qualified applicants should send resume/cumulative vitae in confidence to: Ms. Sharon Moorehead, Parke-Davis, 2800 Plymouth Rd., Ann Arbor, Michigan 48105.

"EQUAL OPPORTUNITY IN ACTION"

PARKE-DAVIS
A DIVISION OF WARNER-LAMBERT COMPANY

OUR LABORATORIES ALSO DEVELOP SUCCESSFUL CAREERS

PHARMACEUTICAL SCIENTISTS

Glaxo Inc. is one of the premier research based pharmaceutical companies in America. Ranked in the nation's Top 10, we are a technically advanced force for innovation that is constantly adding new and important ethical and proprietary pharmaceuticals to its long list of successes.

We are offering important, career expanding positions in our Pharmaceuticals Department to Scientists who would like to be involved with the newest technology, the most challenging projects, and major new product introductions.

Join us in one of these challenging positions in Research Triangle Park, N.C. (near Raleigh/Durham)

RESEARCH ASSISTANTS, ASSOCIATES, AND RESEARCH SCIENTISTS

Product Formulation/Clinical Supplies Manufacturing

Candidates will be involved with all phases of Glaxo's diversified R&D dosage form development programs. Familiarity with CGMP's, clinical supplies manufacture and product scale-up is required. Manufacturing experience is desirable. These positions offer excellent opportunities for world-wide travel.

Candidates responding to this position should refer to Job # Ph.D. on all resumes.

CLINICAL SUPPLIES PROJECT LEADER

Clinical Packaging and Supplies

Working in our Pharmaceutical Development Department, you will be responsible for coordinating Pharmaceutics, Analytical Chemistry, Medical, Biostatistics and Regulatory Affairs clinical development supplies activities, coordinating clinical supplies inventories obtained from contract suppliers and our United Kingdom parent; and, assisting in the clinical packaging and labeling study design. This is an excellent opportunity for travel to contract manufacturers, packagers and to Glaxo U.K.

Qualified candidate must have a BS in Pharmacy or related field with 2-5 years relevant pharmaceutical industry experience. Must have excellent oral and written communication skills and organizational skills.

Candidates responding to this position should refer to Job # Ph.D. - 1 on all resumes.

At Glaxo, growth opportunities are complemented by a location that has excellent resources in close proximity. Prestigious universities, scenic vistas, lively recreational areas, and exciting cultural opportunities...all a part of the daily life of the Glaxo professional.

Further, we reward talent and creativity with excellent salaries, comprehensive benefits programs (including a completely equipped, on-site athletic facility), and rapid recognition. Candidates interested in these positions, please send your resume, including salary history and CORRESPONDING JOB # AS MENTIONED ABOVE, to:

Human Resources Department
Glaxo Inc.
PO Box 13398
Research Triangle Park, N.C. 27709

(No Phone Calls, Please)
No Private Agency Referrals, Please.
An Equal Opportunity Employer M/F/H/V

Paving the way to a healthier world.
positions open

Chair, Department of Biochemistry and Pharmacology

The School of Pharmacy of the State University of New York at Buffalo invites nominations and applications for the position of Chair, Department of Biochemistry and Pharmacology. The appointee should hold a Ph.D. or M.D. degree, and a distinguished research record in one of the many disciplines encompassed by the Department of Biochemistry and Pharmacology. The appointee will be expected to provide academic and research leadership and to develop and implement a comprehensive educational program that includes master's degree or equivalent level of education and experience in the field. The appointee should have a demonstrated record of success in research, teaching, and administration. Applications and nominations should be submitted by 15 April 1988: David J. Trigg, Ph.D., Dean, School of Pharmacy, State University of New York at Buffalo, 126 Cooke Hall, Buffalo, NY 14260.

The State University of New York at Buffalo is an Equal Opportunity/Affirmative Action Employer.

University of Otago

Dunedin—New Zealand

Chair of Physics

Applications are invited for appointment to a Chair in the Department of Physics. Applicants should have a substantial research record in some area or areas of physics, preferably in a field with some broad connection to those already existing in the Department. Applicants should have a strong interest in atomic and laser physics, the physics of the magnetosphere and the earth's environment, thin-film optics, energy physics, and medical physics.

Professorial salaries are currently paid within the range $268,000 to $285,000 per annum. Further particulars are available from the undermentioned, P.O. Box 56, Dunedin, New Zealand.

Applications quoting reference number A87/85 close with the Registrar on 31 March 1988, or as soon as possible thereafter. D. W. Girvan, Registrar.

Cytoskeleton Postdoctoral Position

Postdoctoral position is available to study cytoskeletal reorganization in living cells. Questions to be examined include cell motility, cell division, membrane-cytoskeleton interactions, oncogenic transformation, and myogenesis. The approach involves state-of-the-art methods of fluorescent microscopy, microinjection, image intensification, digital image processing and fluorescence photo-thermal techniques.

Applicants should submit curriculum vitae, descriptions of previous research with reprints, and three letters of recommendation to: Y. Flower, Office, Cell Biology Group, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

An Equal Opportunity/Affirmative Action Employer M/F/VH.

Dean, College of Life Sciences and Agriculture

University of New Hampshire (UNH)

UNH seeks an energetic/innovative leader for its newly restructured College of Life Sciences and Agriculture which now includes all eight biological science departments, as well as departments with emphasis in agriculture and natural resources. UNH is both a Land Grant Sea Grant institution, with a total enrollment of approximately 10,500 students enrolled in 10 degree programs with 25 major curricula leading to B.S. or B.A. degrees, 13 M.S. programs, and 7 Ph.D. programs. The Dean has responsibility for the New Hampshire Agriculture Experiment Station and the Thompson School of Applied Science, which offers six 2-year programs leading to an A.A. degree. Applicants should possess an earned doctorate, a record of useful teaching/research achievement and demonstrated talent for administration. A letter of interest, curriculum vitae, and the names of five references are requested. Applications should include a cover letter, curriculum vitae, and a 2-page statement of experience. Salary will be competitive and commensurate with experience. Nominations and applications should be sent to: Joan Weeks, Secretary, Office of VP for Academic Affairs, University of New Hampshire, Durham, NH 03824. Application screening begins 29 January 1988 and applications will be accepted until the position is filled. UNH is an Affirmative Action/Equal Opportunity Employer.

Dean, College of Liberal Arts and Sciences

The University of Colorado at Denver seeks a person to provide visionary academic leadership and direction for the College of Liberal Arts and Sciences in an institution committed to excellence in research/creative work and teaching. Appointment is planned for no later than July 1, 1988.

Please send nominations and applications, which include a letter and an up-to-date curriculum vitae by 4 March 1988, to: Dean of the College, 2000 E. Ninth Avenue, Denver, CO 80220. The University of Colorado at Denver, 1200 Larimer Street, Campus Box 168-C, Denver, CO 80204-5300.

The University of Colorado at Denver is an Equal Opportunity/Affirmative Action Employer.

Director, Division of Infectious Diseases

The Department of Internal Medicine of St. Louis University invites applications and nominations for the position of Director of its Division of Infectious Diseases. We seek a physician-scientist with a substantial publication record and a history of peer-reviewed grant support. The Director will be responsible for developing and leading a vigorous research-oriented Division. Generous new research space and financial support will be provided. Please forward nominations and applications to: Coy D. Fitch, M.D., Chairman, Department of Internal Medicine, St. Louis University School of Medicine, 1325 South Grand Boulevard, St. Louis, MO 63104. Equal Opportunity Employer M/F/VH.

Environmental Studies: The Environmental Studies Program at Williams College seeks a 1-year sabbatical leave replacement for 1988 to 1989 with the possibility that a regular opening will occur in the fall of 1988. The successful candidate will include courses in the candidate's field, including one with a policy focus and probably an introductory course. The candidate is expected to have a Ph.D. degree or equivalent, and experience in the environmental field. Rank and field are open, but preference will be given to candidates with a background in public policy, environmental law or engineering, geography or human ecology.

Excellent facilities for scholarly research are available. Send curriculum vitae and the names of three references to: Professor William R. McDaniel, Director, Center for Environmental Studies, Williams College, Williamstown, MA 01267. Applications should be received by 29 February 1988. Salary: Commensurate with experience. Equal Opportunity Employer M/F/VH.

The School for Field Studies (SFS) seeks innovative FACULTY (Ph.D./M.S., field leadership, and relevant research experience) to teach intensive 1-month summer courses on Acid Rain (Northeast United States), Coral Reef Ecology (Virgin Islands), Alpine Ibex Behavioral Ecology (Svalbard, Norway), Desertification (Costa Rica), Humpback Whale Ecology (Gulf of Maine), Ecology of Seabirds (Scotland), Coastal Ecology (Sardinia) and Landscape Ecology (Colorado). Salary: Senior faculty $1200 to $1400; associate faculty $1000 to $1200 per course plus travel/field expenses. Send letter, curriculum vitae, and three references to: Program Director, SFS, 3700 Hale Street, Beverly, MA 01915. Equal Opportunity Employer.

Eukaryotic Cell Biology

Indiana University of Pennsylvania and the Biology Department invites applications to teach two positions at the assistant/associate professor level in eukaryotic cell biology starting fall 1988.

Qualifications: Ph.D. and should have teaching experience and a strong research record. Commitment to quality teaching and research is essential. Preference will be given to applicants with a specialty in the molecular biology of eukaryotic cells.

Duties: Will include teaching undergraduate cell physiology, M.S. level graduate courses, establishing a research program, and teaching department general course offerings.

Submit letter of application, résumé, undergraduate/graduate transcripts, statement of research goals, and three letters of recommendation to: Dr. J. M. Stetzel, Jr., Cellular Biology Search Committee, Biology Department, Indiana University of Pennsylvania, Indiana, PA 15732. Application deadline has been extended to 1 March 1988. Minority applicants are encouraged to apply.

TUP is an Affirmative Action/Equal Opportunity.

Experimental Zoologist

Applications are requested for a junior-level faculty position (tenure-track assistant professor, depending on qualifications) in a research area related to the study of cephalopods (presently four faculty, total 18 personnel). Within the division is a large marine facility in which numerous cephalopods are cultured throughout the year. Faculty and staff expertise lie mainly in the areas of animal behavior, neurosciences, nutritional biochemistry, and pathology. Considerable emphasis is placed on educational interdepartmental collaboration. Applicants should have a background in zoology, postdoctoral training, and specific experience in aquatic environmental physiology. Preference will be given to candidates with interests in postembryonic developmental studies related to physiology. The successful applicant will be expected to maintain a vigorous research program and conduct a minor amount of teaching at the graduate level. Please send curriculum vitae, names, and addresses of three references and a description of future research goals to: Dr. R. T. Hanlon, Head, Division of Biology and Marine Resources, Marine Biomedical Institute, University of Texas Medical Branch, 200 University Boulevard, Galveston, TX 77550-2772. UTMB is an Equal Opportunity Employer.

Faculty Positions in Applied Biology/Molecular Biology

Oregon Graduate Center

The Oregon Graduate Center is expanding its program in bioconversion technology. We are inviting applications for the following positions:

Fungal/Teast Molecular Biologist: Experience in gene expression/regulation, protein secretion, or biodegradation with novel organisms.

Microbial Biotechnologist: Background in biochemistry and/or molecular biology with experience in the degradation/transformation of natural or xenobiotic compounds.

Protein Biotechnology Engineer: Background in protein chemistry, enzymology, immunology and/or genetic engineering. Prefer candidates with experience in utilizing molecular genetics to study structure-function relationships with proteins.

Plant Biochemist/Molecular Biologist: Candidates with experience in the enzymology, secondary metabolism, and/or host-microbe interactions of higher plants, and/or molecular biology of forest trees are particularly encouraged to apply.

Requirements: Ph.D., several years of postdoctoral experience, and ability to develop a strong research program and graduate level courses in areas of specialty. Appointments will be made at the level of assistant professor, depending on qualifications.

Send curriculum vitae, a statement of research interests and the names, addresses, and telephone numbers of three references to: J. M. Stetzel, Jr., Cellular Biology Search Committee, Biology Department, Indiana University of Pennsylvania, Indiana, PA 15732. Application deadline has been extended to 1 March 1988. Minority applicants are encouraged to apply.

TUP is an Affirmative Action/Equal Opportunity Employer.

positions open

positions open

positions open
Animal Cell and Microbial Fermentation Scale-Up

The Department of Biological Process Sciences is inviting highly qualified scientists and engineers to join a multidisciplinary team responsible for fermentation processes involving recombinant microbial and animal cells. The Department develops cell lines, gene expression systems, and fermentation technologies suitable for scaling-up to pilot plant and manufacturing capacities. Current projects are concerned with tissue plasminogen activator, second generation thrombolytics, and therapeutics for AIDS. All staff are expected to conduct self-initiated research with general applications as well as research which supports specific product opportunities. Department staff will be located within a new 70,000 ft² Biopharmaceutical Pilot Facility to be commissioned later this year.

The following positions are available:

**Associate Senior Investigator/Cell Biology**

This scientist will conduct research in the area of the animal cell physiology and will compliment genetics strategies aimed at producing high, stable expression systems in low serum or serum-free media suitable for large-scale processes. Applicants must have a Ph.D. in Cell Biology or a related discipline, 1-3 years of postdoctoral experience, a growing publication record in areas relevant to this position, and well developed communication and interpersonal skills. Refer to position #412.

**Scientist/Microbial Physiology**

This position will be concerned with the influence of microbial physiology on the expression of heterologous proteins in *Escherichia coli*, yeast and *Streptomyces* in fermentation reactors. Candidates must have a MS in Microbiology or related discipline and modern fermentation equipment. Candidates with a BS and 2-3 years of pertinent experience will also be considered. Refer to position #436.

**Associate Scientist/Fermentation Technology**

This person will conceive and evaluate new process control strategies to optimize microbial fermentations producing recombinant products in a state-of-the-art computer controlled pilot plant. Candidates must have a BS in Biochemical or Chemical Engineering including coursework in microbiology and biochemistry, or a BS in Microbiology including coursework in engineering related subjects. A background in process control and computer programming is required and experience with process control instrumentation is desirable. Refer to position #17.

**Postdoctoral Scientist/Microbiology or Genetics**

A scientist is sought to study the production of proteases in *Streptomyces* and their role in the accumulation of recombinant products. Candidates for this position must have a strong research background in microbial physiology, enzyme regulation, and/or regulation of protein degradation. Special consideration will be given to candidates with experience in *Streptomyces* physiology. This person will work closely with members of the *Streptomyces* gene expression group within the Department of Molecular Genetics. Our postdoctoral appointments are normally for a two year duration. Refer to position #19.

Biological Process Sciences is part of the Biopharmaceutical R&D Area within SmithKline & French Laboratories, located in suburban Philadelphia, Pennsylvania. We offer excellent compensation, benefits, and relocation packages as well as opportunities for personal and professional growth. Please forward your C.V., the names of three references, and the appropriate position reference number to Robert F. Obst, Manager, Personnel Relations, R0123, Research and Development Division, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
Postdoctoral Fellow

Seeking a Postdoctoral Fellow to participate in the mutagenesis and mammalian cell expression of the envelope glycoprotein of the HIV-1 retrovirus within an ongoing collaborative project between Dr. Philip Berman of Genentech, Inc. and Dr. Don Wiley of Harvard University.

Competence in recombinant DNA technology and an interest in protein structure are essential. Experience in protein chemistry and/or immunology is desirable. This grant funded position will be available in early 1988. It is anticipated that the great majority of time will be spent at Genentech, Inc. in South San Francisco with an opportunity to also spend time at Harvard University in Cambridge.

Please send a resume of educational background, experience and publications, with the names of three references to: Dr. Phillip Berman, Department of Molecular Biology and Immunology, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer.

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GRADUATE OPPORTUNITIES

In Space Biology

The DIVISION OF BIOLOGY at KANSAS STATE UNIVERSITY is offering an exciting opportunity for you in BIOSERVE SPACE TECHNOLOGIES, a NASA CENTER FOR THE COMMERCIAL DEVELOPMENT OF SPACE. Graduate assistantships, with an annual stipend of $10,200, are being awarded to qualified students for studies that combine interests in SPACE with research careers in BIOLOGY.

Applications are invited for graduate studies in:

- virology & oncology
- microbiology & immunology
- cell & developmental biology
- molecular biology & genetics
- physiology & ecology

For further information write:

BIOSERVE SPACE TECHNOLOGIES
DIVISION OF BIOLOGY—ACKERT HALL
KANSAS STATE UNIVERSITY
MANHATTAN, KS 66506

KSU is an equal opportunity/affirmative action employer

DIRECTOR

OAK RIDGE NATIONAL LABORATORY

The Oak Ridge National Laboratory invites nominations and applications for the position of Director of the Laboratory. With a staff of over 4300, ORNL is the largest multiprogram energy laboratory in the U.S. Department of Energy R&D system. The Laboratory’s primary missions are (1) to conduct applied research and engineering development in support of DOE’s programs in fusion, fission, conservation, fossil, and other energy technologies and (2) to perform basic scientific research in selected areas of the physical and life sciences. The Search Committee is seeking candidates who have demonstrated management and leadership abilities and a distinguished record of achievement in scientific or engineering research. All communications should be sent to Dr. M. W. Rosenthal, Oak Ridge National Laboratory, Building 4500N, Post Office Box X, Oak Ridge, TN 37831-5241. All applications must be received no later than March 15, 1988.

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An Equal Opportunity Employer

U.S. Citizenship Required (Security clearance will be required)

SENIOR RESEARCH PHARMACOLOGIST

Your scientific creativity will earn you a spot on a top R&D team

Link your professional future to BERLEX Laboratories, a growing pharmaceutical company and a leader in pharmaceutical R&D. This current oppty offers challenge, recognition, and generous rewards for individuals with experience in animal models of reperfusion injury, myocardial salvage, or infarct size determination to develop a research program in cytoprotection and reduction/prevention of myocardial ischemia. Experience with in vivo methods in cardiac electrophysiology is desirable, but not essential.

The position requires a Ph.D. with 1 or more years of relevant post-doctoral experience. The successful applicant will have demonstrated a high degree of scientific creativity, excellent communications skills, and the ability to work in a team environment, supervising a small group of scientists.

BERLEX provides a generous salary, comprehensive benefits, and unusual opportunities for growth. Send your CV with salary history, in strict confidence, to: Attn: LILA BERNSTEIN, Manager, Human Resources R&D, BERLEX LABORATORIES, INC., 110 E. Hanover Avenue, Cedar Knolls, New Jersey 07927. Equal Opportunity Employer M/W/H.

BERLEX Laboratories, Inc.
**FACULTY POSITIONS IN RADIOLOGICAL SCIENCES**

**DEPARTMENT OF NUCLEAR ENGINEERING**

The Department of Nuclear Engineering at MIT requests applications for two positions in the area of radiological sciences. The positions will be on a tenure track with a 3-year appointment as assistant or associate professor to be determined by the qualifications of the successful candidates. These successful candidates will be members of the Radiation Science and Technology program of the Nuclear Engineering Department and may also have adjunct appointments in the Whitaker College of Health Sciences, Technology and Management depending on their interests and qualifications. Candidates should hold a Ph.D. or Sc.D. in an engineering or physical sciences specialty and should have experience in radiation production, detection, dosimetry and/or application. Candidates for one of the positions should have a broad interest in the physics and engineering of radiation therapy including systems for radiation delivery, dosimetry, treatment planning and related computer applications. Candidates for the other position should be interested in a broad range of topics dealing with medical imaging and diagnostic applications of radiation.

Independent of the area of research, the candidates should be capable of mounting an extensive research program and obtaining support. The program should interact with and expand other activities in the Nuclear Engineering Department involving nuclear reactions. The candidates should be capable of teaching a wide range of courses in the academic areas of radiation science and technology including radiation and radioisotope applications and experimental nuclear physics and should be able to assist in the radiation health physics curriculum. The teaching activities will form an integral part of the radiological sciences program and the successful candidates will have responsibilities for the supervision of student research including master's and doctoral research.

Candidates for both positions are strongly encouraged to include utilization of the MIT Research Reactor in the formulation of their proposed teaching and research activities. Both candidates should also be able to integrate their research and teaching with other aspects of the department's radiological sciences program such as biomedical imaging and diagnostics. Effective collaboration with other relevant groups in the Boston area is important. MIT is a non-smoking environment.

Please submit curriculum vitae to: Professor Gordon L. Brownell, Massachusetts Institute of Technology, Whitaker College of Health Sciences, Technology and Management, Room E25-3308, Cambridge, Massachusetts 02139.

MIT is an Equal Opportunity/Affirmative Action Employer

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**Molecular Biology Research BS/MS**

The Molecular Biology Research Group, part of Upjohn’s expanding Biotechnology program, is responsible for conducting basic research in molecular biology and collaborating with scientists throughout Upjohn. We are seeking Research Associates at the BS or MS degree levels with relevant research experiences, demonstrated skills in experimental design, state-of-the-art analyses and interpretation of data for the following positions:

**Mammalian Cell Molecular Biology:** Experience in basic recombinant DNA techniques and mammalian cell culture is required; a background in virology studies is highly desirable; this position will involve research on regulation of viral gene expression.

**Atherosclerosis and Thrombosis:** Position requires a BS or MS degree in Biochemistry or related field; and research experience in recombinant DNA techniques; experience in cDNA synthesis, protein purification and/or mammalian cell expression techniques is highly desirable.

**Nucleotide Sequencing Analyses:** Participate in collaborative DNA sequencing projects; perform manipulations of recombinant DNA and large DNA sequencing projects, prepare data analysis using computer and assist in implementation of new methodology.

**Plant Molecular Biology:** Develop plant gene transfer systems for crop-species; a BS or MS in plant cell biology, plant molecular biology, or other related area desirable; experience in plant tissue culture and regeneration methods required; knowledge of plant molecular biology, DNA cloning and transformation systems helpful.

Kalamazoo is located in Southwestern Michigan midway between Chicago and Detroit and offers varied cultural events, cosmopolitan shopping and entertainment, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers advancement opportunities, a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For prompt, confidential consideration, please send your curriculum vitae to M. William Rex, Employment Representative, The Upjohn Company, 7000 Portage Road, Kalamazoo, MI 49001. Please refer to advertisement number 1791-A in your correspondence. An Equal Opportunity Employer, M/F.

Our Commitment to Scientific Excellence Continues...
HARRINGTON CANCER CENTER IMMUNOLOGIES

The Harrington Cancer Center, a non-profit, ambulat-
ory treatment center located in Amarillo, Texas is ex-
panding its research capability, and anticipates two pos-
tions in the area of cellular immunology. One position
would be an upper level (equivalent to an assistant or
associate professor) for an individual experienced in
flow cytometry. This position would include responsibil-
ity for developing the clinical flow cytometry laboratory
in addition to initiating an independent research program.
The second position would be for an individual at the post-
doc level, and would involve research in the area of
monoclonal antibodies directed against B cell tumors.
These individuals will join an already established immu-
noology group at the Harrington Cancer Center. The
Texas Tech Regional Academic Health Sciences Center and
the Amarillo Veterans’ Administration Hospital.

For these positions, please send curriculum vitae to:

Dr. K. John Morrow, Jr.
Department of Biochemistry
Texas Tech University Health Sciences Center
Lubbock, TX 79430

MRI/MRS EDUCATIONAL DIRECTOR

The Department of Radiology of the Hospital of the Univer-
sity of Pennsylvania is seeking applicants for a faculty
position as Director of MR Education in the Department of
Radiology. The appointee will direct and coordinate con-
tinuing education programs in magnetic resonance imag-
ing and spectroscopy for physicians and technologists,
and will also have the opportunity to engage in an active
research program in MRI/MRS. Applicants should have
demonstrated research and teaching experience in MRI/
MRS, as well as outstanding written and verbal commu-
nication skills. Rank and salary commensurate with expe-
rience. Send curriculum vitae to: Herbert Y. Kres-
el, M.D., Chief, Magnetic Resonance Imaging, Hos-
pital of the University of Pennsylvania, 3400 Spruce
Street, Philadelphia, PA 19104. The University of Penn-
sylvania is an Equal Opportunity/Affirmative Action Em-
ployer. Qualified female and minority candidates are encour-
ed to apply.

MANAGER, PILOT PLANT,
PENN STATE
BIOTECHNOLOGY INSTITUTE

The Penn State University seeks an individual to
oversee the design, construction, and operation of a
major new pilot plant as part of the expanding activities
of its Biotechnology Institute. Individual will report to
the institute director, but will have the ability to work
independently with equipment manufacturers
and users from the university and private sector. Expe-
rience in design and operation of pilot plants and process
development is necessary, along with a sound
knowledge of biological processes, especially genetically
crafted cells. Supervisory experience desirable. Send
application letter and resume to: Dr. John E. Brechlinsh,
Director, Penn State Biotechnology Institute, 519A
Biotechnology Headquarters Building, University
Park, PA 16802. Review of applications will begin 15
March 1988 and continue until the position is filled. An
Equal Opportunity/Affirmative Action Employer.

MEDICAL DIRECTOR

Position immediately available for M.D./Ph.D. to head
clinical evaluation program of new diagnostic agents for
a subsidiary of a major worldwide manufacturer of
molecular products. Please forward current vitae to: M.
Sovak, M.D., 3333 North Torrey Pines Court #100,
La Jolla, CA 92037.

MICROSCOPIC ANATOMIST OR VETERI-
NARY PATHOLOGIST/TOXICOLOGIST

Ph.D. or D.V.M./Ph.D. to teach microscopic anatomy and
develop an extremally funded research program. Send
letter, resume, and names of three references: N. E.
Harmon, Veterinary Medicine, Oregon State Univer-
sity, Corvallis, OR 97331, before 15 March 1988. Equal
Employment Opportunity/Affirmative Action Employer,
com-
plete Section 503 Rehabilitation Act of 1973 and responsive
to dual-career couples.

MOLECULAR BIOLOGY RESEARCH TECH-
NICIAN—B.S./M.S. or equivalent, with experience in
plant transformation, regulation of gene expression, gene
in virology, immunology, and physiology

The Research Division of Henry Ford Hospital invites
applications for the position of senior staff investigator in
molecular biology. Personnel selected in immunogene
regulation or transcriptional immunology are particu-
larly encouraged to apply, although strong applications
using molecular biological approaches in research areas broadly
related to disease will be considered. Several substantial
resources will be available including the possibility of
academic affiliations.

Applicants should have completed several years of
postdoctoral study, and will be expected to develop a
strong research program capable of attracting extramural
funding. Curriculum vitae and the names of three refer-
cences should be sent to:

Dr. Leonard C. Lutter, Chairman
Molecular Biology Search Committee
Research 567
Henry Ford Hospital
2799 West Grand Boulevard
Detroit, MI 48202

MOLLAR BIOLOGIST

The Division of Rheumatology, Department of Medi-
cine, at the University of Colorado Health Sciences Center,
invites applications for an additional faculty position.
Applicants should have completed at least 2 years of postdoctoral work with experience in the
regulation of gene expression. The position is full-time
research in a laboratory interested in regulation of syn-
thesis of interleukin 1 in human monocytes. The position
is available in 1988 with applications considered through the end of April. Salary and start-up funds will be
provided but the appointee will be expected to partici-
pare in applying for research support. Please submit
curriculum vitae, summary of research, and a list of three references to: Dr. Gary Huffman, Department of Biotechnology Re-
search, Pioneer Hi-Bred International, Box 38, John-
dale, IA 52330. An Equal Opportunity/Affirmative Ac-
tion Employer.
MOLECULAR GENETICIST (M.D. or M.D.-Ph.D.) wanted as Chief of new Genetics Division in the Department of Pediatrics of Case Western Reserve University School of Medicine at Rainbow Babies and Children's Hospital. Incumbent will be expected to develop and recruit additional faculty for independent research program to complement present strength in epithelial cell biology, cystic fibrosis, immunology, and neuronal metabolism and to interface with science department. Preference will be given to a clinically trained physician-scientist who will develop research training opportunities in molecular genetics within the Department of Pediatrics. Faculty rank/salary commensurate with experience. Qualitative women and minority group members are encouraged to apply. Contact: M. Berger, M.D., Ph.D., Department of Pediatrics, Case Western Reserve University School of Medicine, 2074 Abington Road, Cleveland, OH 44106. Telephone: 216-844-3237. CWRU is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST
YALE SCHOOL OF MEDICINE

The Department of Human Genetics invites applications for a position as an assistant professor, a tenure-track position with excellent laboratory facilities, in a stimulating environment. We seek candidates who have a Ph.D. or M.D. degree, a record of accomplishment in research and exceptional potential for establishing an independent program of research. Candidates interested in developmental genetics are encouraged to apply; however, all highly qualified applicants will receive equal consideration. Applicants are invited to submit curriculum vitae, representative publications, a statement of research interests, and to arrange to have three letters of recommendation sent to:

Dr. Charles M. Radding
Chairman, Faculty Search Committee
Department of Human Genetics
Yale University School of Medicine
P.O. Box 3333
New Haven, CT 06510

Applications should be submitted before 31 March 1988. Yale University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR VIROLOGIST
Tenure-track assistant professor position available after 1 July 1988. Candidates should have research interests in virology at the molecular biology level. Responsibilities include contribution to departmental teaching effort and participation in a joint Ph.D. graduate program with the School of Medicine. The applicant will be expected to maintain independent research, and successfully compete for financial support. Applicant should send curriculum vitae and the names and addresses of three references to: Dr. Teh-laiang Chiu, Department of Pittsburgh, Pittsburgh, PA 15261. Closing date for position is 1 April 1988. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

NEUROPHARMACOLOGY FACULTY POSITION: The Department of Pharmacology at New York Medical College invites applications for an assistant or associate professor, tenure-track position. Applicants should have an M.D. or Ph.D. degree in pharmacology or related field, and ability to develop an independent research program that applies modern techniques of biochemistry, molecular and cell biology, and physiology. For- ward curriculum vitae, a list of publications, and three references by 30 March 1988 to: John C. McGriff, M.D., Professor and Chairman, Department of Pharmacology, New York Medical College, Valhalla, NY 10595.
U.S. PATENT AND TRADEMARK OFFICE

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

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

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

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

SALARY: Dependent upon experience and qualifications.

LOCATION OF POSITION: Arlington, VA

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

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RESEARCH TOXICOLOGIST

Alcon Laboratories is a $500 million multinational pharmaceutical company and the recognized industry leader in ophthalmic research. The growth of our basic research group has created an immediate requirement for a Senior Scientist within our Research Toxicology Section. This position will take a leading role in the design and conduct of studies investigating biochemical and cellular mechanisms of toxicity of drug candidates and therapeutic modalities.

Requirements include:

- Ph.D. in Toxicology or related discipline
- Postdoctoral and research experience in in vitro techniques, xenobiotic metabolism or oxidative mechanisms of tissue injury highly desirable
- Good oral/written communication skills

This position offers an excellent opportunity for professional recognition and career growth. We offer a competitive starting salary, company paid benefits, an excellent profit sharing plan, and a desirable Fort Worth location with numerous recreational, cultural, and economic advantages. If you are seeking a career opportunity involving challenging work within a dynamic, state-of-the-art research environment, please send resume with salary history to: Sherry L. Mize, Employment Supervisor, Alcon Laboratories, Inc., P.O. Box 6600, Ft. Worth, TX 76115.

Equal Opportunity Employer, M/F/V/H + Principals Only, Please

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Bioanalytical Scientist

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., a major innovator in the research, development and marketing of ethical drugs, currently has an opening at our Research and Development facility, located in DANBURY, CONNECTICUT.

The Analytical Chemistry Department is seeking a Ph.D. level Scientist with a strong background in Bioanalytical Science and industrial experience in the release and stability testing of monoclonal antibodies and related biotechnology products. Strong written and oral communication skills as well as proven leadership skills are an asset for this position.

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc. offers a competitive compensation and benefits package, relocation assistance and the opportunity to have your contributions recognized.

For confidential consideration, please send your curriculum vitae to: Dept. JC-185, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO Box 368, Ridgefield, CT 06877.

We are an equal opportunity employer, M/F/V/H.

Boehringer Ingelheim

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WRITE TO:

SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
THE INTERNATIONAL RICE RESEARCH INSTITUTE (IRRI) SEeks A DEPUTY DIRECTOR GENERAL FOR RESEARCH

RESPONSIBILITIES:
- Provide leadership in multidisciplinary research among scientists in various agricultural disciplines from both developed and developing countries.
- Develop, budget, monitor, and evaluate research conducted within a decentralized management structure.
- Establish and maintain collaborative research programs that complement those of national agricultural research systems in rice-growing countries.

QUALIFICATIONS:
- PhD in agricultural or biological sciences with excellent scientific record and recognition
- Demonstrated vision and experience in the planning and accomplishment of interdisciplinary research
- Ability to motivate an internationally recruited staff from different cultural, and social, and scientific backgrounds
- Extensive experience in administrative and financial management
- Experience in international collaborative research, both with national agricultural research systems in rice-growing countries and advanced institutes.

The deputy director general for research will live at IRRI headquarters on the campus of The University of the Philippines, Los Banos—60 km south of Manila. Substantial international travel will be required. The salary and benefits will be commensurate with salaries and benefits of similar international institutes and programs in agriculture.

IRRI is an international, non-profit, agricultural research institute funded by about 30 donor nations and organizations. IRRI conducts research on the rice plant and on all phases of rice production, management, distribution, and utilization. Its goal is to enhance rice production and sustainability to benefit the more than one billion people in the world who are dependent on rice for their livelihood and as their basic food.

Applications due: 30 March 1988
Submit curriculum vitae and the names of three references to:
Dr. Klaus J. Lampe, Director General-Designate
IRRI
P. O. Box 633
Manila, Philippines

Reply to U.S. Telex no. 490009251 (490009251IRRI)

BACTERIAL GENETICS - MOLECULAR BIOLOGY

EG&G Idaho, Inc., Prime Operating Contractor for the Department of Energy’s Idaho National Engineering Laboratory has a Staff/Postdoctoral position available in its Biotechnology Group. Qualifications should include laboratory experience with most or all of the following: methods of bacterial identification/classification, mutant production and characterization, bacterial mating/strain construction, bacteriophage isolation and manipulation, plasmid and chromosomal DNA isolation and characterization, nucleic acid hybridization, recombinant DNA techniques/cloning, microorganism transformation, DNA sequencing. Experience with environmental microbes would be advantageous but is not essential.

The Biotechnology Group studies the capabilities of a variety of environmental microorganisms and the application of those capabilities to problems in energy, materials, waste management, etc. The Group and its programs are steadily expanding. Their laboratories are located in the INEL Research Center, a newly completed 50,000 sq. ft. facility located in Idaho Falls. This facility also houses research groups in chemistry, physics, environmental sciences, advanced materials, etc. This high technology environment is located within easy reach of several major year-around outdoor recreation areas, including some of the largest remaining wilderness areas in the U.S.

We offer a competitive salary and benefits package. Position and salary will be commensurate with qualifications and experience. Please send your resume, references and salary history to Employment Services, (HD-38), EG&G Idaho, Inc., P.O. Box 1625, Idaho Falls, Idaho 83415. We are an equal opportunity employer M/F/H/V. U.S. Citizenship required.

CLINICAL DIAGNOSTICS
San Francisco Bay Area

BIO-RAD LABORATORIES is a worldwide leader in the fields of clinical diagnostics, chemical separations and analytical instrumentation. Our Clinical Diagnostics Division is continuing to expand in order to undertake the development of new immunoassay systems for the 1990s. We are looking for motivated, goal-oriented professionals with experience in the following areas:

Business Unit Manager

This leadership position is responsible for the research and development, and marketing activities for major product lines both existing and planned. These responsibilities include the challenge of providing general management direction to a strong team of talented research and marketing professionals. Experience in diagnostics or a related health industry with a technical education is desired along with the ability to plan and implement product/marketing strategies.

Research and Development Manager

You will need 5 or more years' experience in diagnostics with at least 3 years of project management. Excellent people skills and the demonstrated ability to manage multidisciplinary teams are essential.

Marketing, service, and a strong customer orientation are part of the culture and direction we desire for these positions.

We also have a variety of positions available in immunoassay development, microbiology, and instrumentation engineering.

Be part of the team in our new facilities overlooking the Bay in Hercules, California.

For consideration, please submit resume to Bio-Rad Laboratories, Human Resources, Dept. #293-50212, 1000 Alfred Nobel Drive, Hercules, CA 94547. EOE.
POSITIONS OPEN

NEUROBIOLOGY-POSTDOCTORAL ASSOCIATES

Two openings are now available in the laboratory of Dr. Robert O’Connell to study Olfactory Neurobiology. One position seeks to explore olfactory transduction at the membrane level. This research involves biophysical and biochemical approaches to the molecular mechanisms responsible for pheromone detection in insect olfactory receptor neurons. Experience with either membrane reconstitution or second messenger system biochemistry or single-channel recording techniques is required. The second position seeks to explore mechanisms of olfactory communication at several levels. The planned research involves a multidisciplinary approach to the anatomical, behavioral, chemical, electrophysiological, and hormonal substrates of olfactory communication in several mammalian species. Experience in one or more of these areas is required. Salaries are commensurate with experience. The Worcester Foundation is situated on a wooded 100-acre campus only a few minutes from the Medical School and other universities in Worcester and in close proximity to Boston, Hartford, and Providence area academic and research institutions. Send curriculum vitae, a statement of past research interests, and the names of at least three references to: Dr. Robert O’Connell, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

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

ORGANIC SYNTHETIC CHEMIST

Subsidiary of the Cook Group of Companies, worldwide medical technology manufacturers, seeks an experienced, dynamic Ph.D. to lead an exciting research group, primarily but not exclusively focused on diagnostic drugs such as radiographic contrast media. Competitive salary and benefits. Please forward résumé with statement of availability to: Cook Imaging, 3333 North Torrey Pines Court, #100, La Jolla, CA 92037.

PHYSICAL CHEMIST—Williams College has an opening for a tenure-track position in physical chemistry for fall 1988 (Ph.D. required, postdoctoral experience preferred). Applicants should have a strong commitment to both teaching and research. Teaching assignments will encompass physical chemistry courses and other courses in the chemistry curriculum consistent with the person’s background and interests. A semester teaching load normally includes one laboratory course. Send curriculum vitae with laboratory and supervision of senior research projects. Williams College is a highly selective, coeducational, liberal arts institution of approximately 165 faculty, 1950 undergraduates, and 225 to 250 chemistry majors each year, located in northwestern Massachusetts. The Chemistry Department is accredited by the ACS, and has excellent facilities for teaching and research. Send résumé, undergraduate, and graduate transcripts, description of research interests for undergraduates, and names of three references to: Dr. James F. Skinner, Chairman, Department of Chemistry, Williams College, Williamstown, MA 01267, by 11 March 1988. Equal Opportunity/Affirmative Action Employer. We are especially interested in identifying minority and women candidates.

PLANT PHYSIOLOGIST. The Department of Biology at Trinity University invites applications for a tenure-track faculty position at the assistant professor level available August 1988. Candidates must have a Ph.D. in biology with a preference given to persons with a specialty in plant physiology or plant cellular and molecular biology. Duties include the development of a lecture and laboratory course in the area of specialty, participation in core courses for majors, and academic advising. The successful candidate will be expected to establish a vigorous research program in one of the following areas: cellular/molecular biology, developmental genetics, comparative physiology, embryology, or ecological physiology of plants. Salary will be commensurate with education and experience. Trinity University is a private, primarily undergraduate 4-year liberal arts and sciences institution of 2600 students. Applicants should send curriculum vitae, summary of research experience and interests, and names of three references to: Professor Thomas L. Kromer, Chairman, Department of Biology, Trinity University, San Antonio, TX 78284. Application deadline is 7 March 1988. Trinity University is an Equal Opportunity/Affirmative Action Employer.

Sr. Scientist/Section Leader Microbiology

SANDOZ CROP PROTECTION CORPORATION, a company widely recognized for excellence in agricultural research and manufacturing, has an opening for a Microbiologist as Sr. Scientist/Section Leader in Biological Development. The function of this position will be to direct fermentation development for Microbial Insecticides. Requirements include:

* Ph. D. in Microbiology with minor in Biochemistry and/or immunology
* At least 5 years experience in Microbial physiology research with bacterial cultures and 2 years fermentation process development.
* Skills in modern biotechnology techniques desired.

For consideration send resume to:

SANDOZ CROP PROTECTION CORP.
Denise Willey
P.O. Box 220
Wasco, CA 93280

EEO/AA

PHARMACOLOGIST

INFLAMMATION IMMUNOLOGY

Ph.D. level with a minimum of 3 years industrial experience in Inflammation Immunomodulation drug discovery. Knowledge of in vivo and in vitro models of disease highly desirable. A high energy level and a strong knowledge of the relevant literature is essential. Our team employs the very latest in computer assisted drug design technology, by utilizing the Computer Automated Structure Evaluation (CASE) program. We are looking for a pharmacologist who will work closely with our theoretical and synthetic chemists, using artificial intelligence techniques to identify new chemical entities. If an opportunity for self-direction and scientific leadership is appealing, please apply.

BIOFAR, INC. is located in Northwestern Pennsylvania near the beautiful Pocono Mountains. We offer opportunity for substantial growth. All inquiries will remain confidential.

Send resume to:

BIOFAR, INC.
P.O. Box 577
Waverly, PA 18471

Postdoctoral Associates

CIBA-GEIGY Pharmaceuticals

CIBA-GEIGY, a leader in pharmaceutical research, currently has a unique opportunity available at the Summit, New Jersey, Division headquarters.

Candidates will participate in an innovative, multidisciplinary effort targeted at the rational design of receptor antagonists. A recent Ph.D in Molecular Biology or a related area and experience with gene expression and mutagenesis are required. An interest in protein structure is preferred.

At CIBA-GEIGY, you'll find a stimulating environment offering competitive salaries, excellent benefits and an ideal opportunity to grow both personally and professionally. Please send your resume, in confidence, to: Ms. Sandra Latzer, Dept. SL, The Pharmaceuticals Division, CIBA-GEIGY Corporation, 556 Morris Avenue, Summit, NJ 07901. We are an equal opportunity employer m/f/h/v.

Science Serving Mankind

CIBA-GEIGY
SENIOR MICROBIOLOGISTS

Rohm and Haas Company, a Fortune 200 manufacturer of specialty chemicals for industry and agriculture, has several immediate openings for Senior Microbiologists in the Biocides Research Department. These positions are at our Corporate Research Center in Spring House, PA — twenty miles north of center-city Philadelphia. They represent significant growth in our commitment to develop leading biocides to add to our Kathon® product lines.

SENIOR MICROBIOLOGIST: Applications Research
Ph.D. or experienced M.S. microbiologist with extensive experience in:
- Water Treatment
  - Cooling towers
  - Paper making
  - Oil production
or
- Preservatives
  - Metalworking fluids
  - Cosmetics
  - Consumer products
This scientist will be responsible for research to determine how best to use antimicrobial compounds (biocides) in a variety of industrially important products and processes.

SENIOR MICROBIOLOGIST: Biocides Evaluation
Ph.D. or experienced M.S. microbiologist, with extensive knowledge of screening and evaluating biocidal candidates for commercial applications.
Responsibilities involve integrating our screening operations to facilitate selection of candidate biocides for applications testing and development, and reporting evaluations to management.

SENIOR MICROBIOLOGIST: Microbial Physiology
Ph.D. microbiologist, with emphasis in microbial physiology or microbial ecology.
Research projects include:
- Determining the mechanisms of action of selected antimicrobial agents.
- Investigating the ability of microorganisms to develop resistance to selected antimicrobial agents in specific industrial applications.
No previous industrial experience required for this position.

SENIOR MICROBIOLOGIST: Biodeterioration Mycology
Ph.D. or experienced M.S. scientist with experience in fungal biodeterioration. This scientist will work in our applied mycology group on projects to establish how best to use biocides to prevent fungal damage. Applications that the group is currently investigating include:
- Wood degradation
- Plastics
- Paints and coatings
- Textiles
- Distillate fuels

Besides superior technical accomplishments, successful candidates must exhibit excellent written and oral communication. Also important are those organizational and interpersonal skills that ease effective collaboration with scientists of other disciplines. Candidates should be U.S. citizens or permanent residents.

Rohm and Haas offers a highly competitive salary and benefits program, including relocation assistance. Our staff enjoys modern research facilities, a high investment in research, and outstanding analytical support. There are many opportunities for professional development and, whenever possible, we promote from within.

Please send your resume, including three professional references, in confidence, to:
Corporate Staffing #888

An Equal Opportunity Employer M/F.
Visiting Cardiovascular Scientist

A postdoctoral Visiting Scientist position is available within the Medical Products Department at Du Pont's Experimental Station in Wilmington, Delaware. The successful candidate will conduct basic research on the renin-angiotensin system, angiotensin II receptor. Candidates should have a strong background in cardiovascular, renal and/or molecular pharmacology. The appointment will be for one year, renewable for a second year upon mutual agreement.

At the world renowned Du Pont Company, you'll find a highly stimulating multidisciplinary research environment in addition to an excellent salary. To be considered, please send your resume, bibliography, and references to: Dr. Stephen T. Toy, Employee Relations Department, Room X51005, Du Pont Company, Wilmington, Delaware 19898.

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

TENURE TRACK STAFF POSITIONS AT THE BIOLOGICAL RESPONSE MODIFIERS PROGRAM, NCI

The Clinical Research Branch, Biological Response Modifiers Program, Division of Cancer Treatment, the National Cancer Institute, National Institutes of Health, Public Health Service, is accepting applications for two staff positions. Positions are available to physicians who are either Board eligible or Board certified in medical oncology.

The incumbent will be responsible for primary patient care and the design and conduct of clinical trials utilizing biological response modifiers. Emphasis is also placed on continuity of patient care, principles of patient management, and correlation of clinical response with changes in immunologic parameters.

Staff Fellows will be assigned to Civil Service positions with an annual salary between $24,000 and $49,266 (based upon experience) and an increase up to $1,500 for each additional year up to a maximum of $49,266. Staff Fellows are eligible for all benefits including health insurance, life insurance options, vacation, and sick leave. In addition, travel expenses for the Fellow to his duty station are available.

For further information and application procedures, please contact:
Ronald G. Steis, M.D.
Medical Pavilion,
Frederick Memorial Hospital
335 Park Avenue
Frederick, Maryland 21701
(301) 696-5929

U.S. CITIZENSHIP OR PERMANENT RESIDENCY REQUIRED
AN NIH ASSOCIATE TRAINING PROGRAM
NIH IS AN EQUAL OPPORTUNITY EMPLOYER
Deadline for applications is March 15, 1988.

UNDERGRADUATE RESEARCH

The U.S. Department of Energy offers college juniors and seniors the opportunity to do research at five federal laboratories. Qualified students spend one academic term in energy-related research at the frontier of science with state-of-the-art facilities and equipment.

BENEFITS
- Stipends up to $175 per week
- Round-trip travel and housing
- Academic credit may be arranged through the home institution
- Research Areas include: computer sciences, engineering, environmental and life sciences, mathematics, and physical sciences

For detailed information and application forms, please write to this address:
Science and Engineering Research Semester
U.S. Department of Energy
Office of Energy Research, Room 3F-061
1000 Independence Avenue, SW
Washington, D.C. 20585
Application Deadline: March 15, 1988

VETERINARY PATHOLOGIST

We're Caring For the World: Join A leading Subsidiary of Johnson & Johnson

ETHICON, INC., the world's leader in wound closure development seeks an experienced Toxicologic Pathologist to participate in wound healing research and the safety assessment of wound healing pharmaceuticals and devices.

This position requires a DVM Pathologist with a minimum of 3 years experience in toxicologic pathology associated with drug development. The ideal candidate will have ACVP board certification or training appropriate to sit for the board examination.

Excellent verbal and written communication skills are required. Send resume or CV to: Mr. Walter L. Pino, Employment Manager

ETHICON, a Johnson & Johnson Company
Route 22, Somerville, NJ 08876
A Corporation With a Conscience
Equal Opportunity Employer M/F
Industrial Postdoctoral Position: Human Model Systems in Toxicology

The Environmental Health Laboratory of Monsanto Agricultural Company, located in St. Louis, Missouri, is seeking a Postdoctoral Scientist to participate in toxicology research aimed at developing experimental systems to predict human toxicity.

The successful candidate will participate in our ongoing research program on the validation of human hepatocytes as an experimental system to study species comparison of chemicals. Hepatocytes cultured from human and other animal species will be studied. The candidate may also participate in the development of other relevant experimental models to predict human toxicity of chemicals.

Candidates are required to have a Ph.D. in Cell Biology, Biochemistry, Toxicology or other related disciplines, and experience in hepatocyte cultures and measurement of xenobiotic metabolism.

This position is renewable on an annual basis with an anticipated duration of 2 years. External publications and participation in the scientific community will be encouraged.

Monsanto provides a generous compensation package relative to your responsibilities and qualifications. Interested candidates, please forward your resume to: Vernon L. Bozarth; Mail Zone B3R; MONSANTO COMPANY; 800 N. Lindbergh Blvd.; St. Louis, MO 63167. An Equal Opportunity Employer M/F/H/V.

Monsanto

Several B.S. or M.S. Degree level positions in chemistry and biochemistry with 0-5 years of experience are available within the Pharmaceuticals Division of our Medical Products Department.

Process Development Chemist: This position involves developing processes for the preparation of our bulk pharmaceuticals and drug candidates. Responsibilities include both lab syntheses and support of Semiscale campaigns to produce material for the pre-Clinical and Clinical studies. The qualified candidate will have extensive knowledge and interest in organic synthesis, experience in purifying and characterizing organic compounds and the ability to communicate well in a team environment. Experience with Good Manufacturing Practices is a definite plus.

Process Development Biochemist: This position involves developing processes for the preparation of biological materials for pre-Clinical, Clinical and Diagnostic studies. Responsibilities include laboratory and scale-up programs for the production of large quantities of these biotechnology compounds. The qualified candidate will have an excellent command of biochemistry including practical experience with extraction, purification and characterization of proteins and nucleic acids. Excellent oral and written communication skills are required to work on this multidisciplinary team. Experience with FDA regulation, particularly Good Manufacturing Practices, is a definite plus.

You will find a highly stimulating scientific environment in a modern research facility located near Wilmington, Delaware. We offer excellent compensation and benefits, including relocation. Our mid-Atlantic location offers an attractive lifestyle with easy access to a wide-range of academic, cultural and recreational activities. Candidates should send their resumes and references, indicating positions of interest, to: Professional Staffing, Employee Relations Department, Room XS1038, Du Pont Company, Wilmington, Delaware 19898.

Du Pont
An Equal Opportunity Employer M/F/H/V
U.S. Citizenship Required
PHYSIOLOGIST: A tenure-track position at the level of assistant professor is anticipated beginning August 1988. An earned doctorate is required with post-doctoral experience. The successful candidate will be expected to develop a vigorous research program and supervise graduate students. Teaching responsibilities will involve courses in physiology, psychology, and biology. Applicants should submit a letter of reference to: Department of Psychology, University of Washington, Seattle, WA 98195.

PLANT ECOLOGIST
The Department of Ecology and Evolutionary Biology at the University of California, Santa Cruz invites applications for a tenure-track assistant professorship in plant ecology at the Santa Cruz campus to begin in September 1988.

The successful candidate will be expected to develop a vigorous research program, and to teach beginning and advanced undergraduate courses in biology and will have ample opportunity to collaborate with colleagues at the nearby main campus on a regular basis. We will provide an office at the main campus in addition to facilities at the Santa Cruz campus. The successful candidate should submit a curriculum vitae, a statement of research interests, reprints of published papers, and at least three letters of reference to: Dr. R. A. Littell, Search Committee, Department of Ecology and Evolutionary Biology, University of California, Santa Cruz, CA 95064. Applications should be received no later than January 2, 1988. Questions should be directed to Dr. R. A. Littell at 408/425-3357.

THE AUSTRALIAN NATIONAL UNIVERSITY is inviting applications for a Visiting Professorship in Immunology. The position is for a period of one year, with the possibility of renewal for further periods. Applicants should write to: Professor J. C. Boyse, Department of Immunology, Australian National University, ACT 2601, Australia.

POSTDOCTORAL POSITION AVAILABLE
Opportunity for postdoctoral research in biomedical NMR. Medical School NMR facility instrumentation includes 500-MHz, 360-MHz and 200-MHz Bruker spectrometers, and a 3.0-T Siemens magnet. The newcomer to the field is encouraged to apply. Address all inquiries, including a letter, curriculum vitae, and the names of three references to: Dr. John S. Leight, Department of Biochemistry, Division of Molecular Biology, University of Pennsylvania, D501 Richards Building, Philadelphia, PA 19104-6089.
DEPARTMENT OF GENETICS

A vacancy is available for a Mammalian Population, Cell or Molecular Geneticist at the Assistant Professor level. Candidates with interests in human systems will be accorded particular consideration. The tenure-track appointee will be expected to teach an advanced course on human genetics, as well as participating in more general offerings at intermediate and introductory levels. An appropriately qualified appointee may be eligible for substantial research establishment funding from the Alberta Heritage Foundation for Medical Research.

Candidates for the position should have a Ph.D. and postdoctoral research experience. Establishment of an independent research program will be an integral part of the appointee’s duties and excellent research potential is considered imperative. The appointment will commence early in the 1988/89 academic year. Salary will be in the range $31,612-$51,430, commensurate with qualifications.

Genetics currently has thirteen faculty, housed in a modern research facility in the Faculty of Science; research emphasis is molecular biological. The University of Alberta, Alberta’s senior university, has 25,000 students. Heavy emphasis on biosciences is found in the Faculties of Science, Medicine and Agriculture and Forestry. Wide opportunities for collaborative research are available. Edmonton is a city of 500,000, a supply centre for agriculture and petroleum industries, and Alberta’s capital.

Optimal starting date is July 1, 1988. Applications will be accepted until the position is filled, but would be appreciated before March 31, 1988. Applicants should send a curriculum vitae, reprints of four (or more) recent research publications and the names and addresses of at least three referees to:

Dr. David Nash
Chairman, Department of Genetics
University of Alberta
Edmonton, Alberta T6G 2E9
Canada

The University of Alberta is committed to the principle of equity in employment. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

PEPTIDE/PROTEIN BIOCHEMISTS

The Marlstone Corporation is seeking biochemists in the following areas of specialization:

Peptide Biochemist
Principal Investigator/Research Scientist
PhD with 2-5 years experience in the pharmaceutical or agrochemical business, specializing in the structure and function of peptides and the design of synthetic peptide analogs. Management and planning skills necessary.

Computational Biochemist
Research Scientist
PhD with postdoctoral experience, specializing in protein structure analysis by computational methods. Experience with molecular dynamics calculations, energy minimization and water models essential.

Located in the San Francisco Bay Area, The Marlstone Corporation has developed proprietary technology for the rational design of peptides and proteins. The positions involve application of that new technology as well as continued development as part of an interdisciplinary team.

Please send resume to:
Ms. Barbara Nova
The Marlstone Corp.
24 Belvedere, Suite H
San Rafael, CA 94901

SUPPORT FOR NEW USERS AT SYNCHROTRON RADIATION AND NEUTRON BEAM RESEARCH FACILITIES

The NSLS/HFBR Faculty/Student Support Program is designed to encourage new users to BNL’s National Synchrotron Light Source (NSLS) and High Flux Beam Reactor (HFBR). The program supports faculty/student research groups by covering expenses incurred during exploratory visits to BNL and while performing initial experiments at the NSLS and HFBR. Expenses covered include travel, housing, per diem, and some incidental costs.

Both the NSLS and the HFBR are large interdisciplinary research facilities. The NSLS is a dedicated synchrotron radiation user facility with two electron storage rings—a vacuum ultraviolet (VUV) ring which operates at an electron energy of 750 MeV and provides infrared, ultraviolet, and soft X-ray photons, and an X-ray ring which operates at 2.5 GeV and provides usable photon fluxes at energies from below 1keV to above 20 keV. Instruments for performing photoelectron, photolization, fluorescence, and infrared spectroscopy, lithography, microscopy, EXAFS (Extended X-ray Absorption Fine Structure), small-angle scattering, diffraction, crystallography, tomography, medical imaging, and other studies are available. Scheduling of experiments is underway on the VUV ring. Scheduling of the X-ray ring is expected to begin during the fall of 1988, following completion of a major upgrade program presently underway.

The HFBR comprises a 60 megawatt research reactor, systems for irradiation experiments, and nine beam tubes which supply neutron fluxes to 15 experimental stations. A cold neutron source is available for inelastic and small-angle neutron scattering experiments. Monochromatic neutron beams in both the thermal and epithermal energy ranges are provided. Instruments are available for a wide range of scientific studies including neutron diffraction, inelastic scattering, chemical and biological structure studies, and a number of areas in nuclear physics.

This program is funded by the U.S. Department of Energy, and is open to U.S. citizens or permanent resident aliens from U.S. institutions of higher education.

To receive a application form or for further information, contact: Susan White-DePace, User Administrator, NSLS Department, Building 725B, Brookhaven National Laboratory, Associated Universities, Inc., Upton, L.I., New York 11973. Equal Opportunity Employer M/F.
POSTDOCTORAL POSITION in area of electrophysiology (patch clamping) as applied to immunopharmacology in a multidisciplinary setting. Salary commensurate. Send curriculum vitae, state research interests, provide address and telephone number of three references to: Dr. Joseph W. Dardacchi, Laboratory of Immunopharmacology, Department of Psychiatry, Emory University School of Medicine, Atlanta, GA 30322.

POSTDOCTORAL POSITION: Available spring 1988 to study the role of DNA methylation. Emphasis on ecological aspects. Topics include: the specificity of base mismatch repair (e.g., Nucleic Acids Res., 15, 8205), the regulation of gene expression (e.g., Proc. Natl. Acad. Sci. USA 79, 2174), and the regulation of dam gene expression. Background in microbiology/molecular biology/genetics an advantage. Send curriculum vitae and names of three references to: Dr. M. G. Marquis, Department of Pharmacology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. UMMC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS are available in two molecular biology laboratories. Research will be focused on regulation, high frequency transposition and developmental timing in Drosophila, and (ii) the regulation of cell motility in the developing vertebral column in Drosophila. Send curriculum vitae and names of two references to: Dr. David R. Soll, Department of Biology, University of Iowa, Iowa City, IA 52242. University of Iowa is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS SYSTEMS ECOLOGY RESEARCH GROUP

ARCTIC TERRITORIAL ECLOGIST—Participate in research project examining ecosystem response to disturbance and biodiversity in Lake, Alaska. Responsibilities include coordinating field research in tundra suckers on community composition, canopy structure, carbon balance, and production. Experience in arctic ecosystems and computer modeling desirable. ECOSYSTEM MODELERS (three)—Two positions to participate in Toolik Lake ecosystem modeling project; expertise open but preference given to individuals with experience in arctic ecosystems. One position to participate in joint project with Dr. F. Bazas (Harvard University) in modeling of plant competition in response to elevated carbon dioxide. All positions available immediately. Send curriculum vitae and names of three references to: Systems Ecology Research Group, Department of Zoology, Stanford University, Stanford, CA 94305. Send curriculum vitae and names of three references to: Dr. Richard J. Shugart, Department of Biology, Emory University, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer, Title IX.

POSTDOCTORAL POSITIONS ARE AVAILABLE at the National Heart, Lung, and Blood Institute, National Institutes of Health, Public Health Service to study the biochemistry of collagen and the biophysical properties of non-muscle cells. Current activities include the regulation of actin polymerization by actin-binding proteins, and the structure, enzymatic activity and cellular function of actin-associated and microtubule-associated translocators. These positions have a salary range of $20,000 to $27,500 per year. Salary will be commensurate with experience. These positions are located on the National Institutes of Health (NIH) campus in Bethesda, Maryland. Applicants should submit three letters of recommendation to: Dr. Edward D. Korn, Chief, Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, 9000 Rockville Pike, Bethesda, MD 20852. Ask for Exercise Science Research Program. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS are available in several interdisciplinary areas in the Department of Cell Biology. Send curriculum vitae and names of three references to: Raj K. Goyal, M.D., Department of Cell Biology, Division of Toxicology and Cell Biology, Boston University School of Medicine, 800 Harrison Avenue, Boston, MA 02215. Boston University is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—U.S. DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE (ARS)

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS—Positions are available at the Northern Regional Research Center, Peoria, Illinois, in four areas of research: (i) glycoprotein biosynthesis and secretion in maize endosperm including enzymology of synthesis, structural studies of oligosaccharides, and targeting of proteins; (ii) regulation of lipid metabolism in microorganisms including the measurements of enzyme activities during temperature acclimation and isolation and characterization of a gene family regulation of oligosaccharide biosynthesis in soybean including enzymology, protein structure and cloning of key metabolic enzymes; (iv) characterization of amylase, glucoamylase and dextrinases found in germinating corn including identification of enzymes capable of invasion and hydrolysis of intact starch granules. Knowledge and experience in enzymology, assay, protein isolation or purification required. Appointments will be at GS-11 ($27,716) for 1 year and can be extended. Please send curriculum vitae and names of three references to: Helen Swensen, Personnel Department, USDA-ARS-Northern Regional Research Center, 1815 North University Street, Peoria, IL 61604. Application package must be submitted by 5:00 p.m., Wednesday, May 1st, 1988. Additional information may be obtained by calling: (i) J. A. Miernyk, (ii) Tom M. Cheesbrough, (iii) Tsung M. Kuo, (iv) Clarence A. Kautz. Send 309-685-4011. ARS is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—Ph.D. in immunology/medical microbiology with a minimum of 2 years of postdoctoral experience. Experience in handling mice, rabbits, viruses, tissue culture; isolation and culture of lymphoid cells; production purification, and analysis of monoclonal antibodies, and development of cell culture techniques; experience in protein purification. Two years experience in one to three technicians. Send curriculum vitae and names of three references to: Dr. Lee Makowski, Center for Molecular Biophysics, Department of Physics, Boston University, 590 Commonwealth Avenue, Boston, MA 02215. Boston University is an Equal Opportunity Employer.

BOSTON UNIVERSITY CENTER FOR MOLECULAR BIOPHYSICS POSTDOCTORAL RESEARCH FELLOWS

Several positions are available for postdoctoral researchers to participate in studies of macromolecular assemblies using x-ray and neutron diffraction and electron microscopy. The focus of these studies is the development of new methods for the study of macromolecular structure. Biological systems being studied include filamentous bacteriophages, membrane gap junctions and amyloid fibers. Background in x-ray crystallography, electron microscopy, image analysis or membrane biophysics preferred. Send curriculum vitae and names of three references to: Dr. Lee Makowski, Center for Molecular Biophysics, Department of Physics, Boston University, 590 Commonwealth Avenue, Boston, MA 02215. Boston University is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH SCIENTIST—Columbia University, The New York Orthopaedic Hospital Research Laboratory. A 3-year postdoctoral position is available within the biochemistry section of an active musculoskeletal research group in a newly appointed laboratory. Areas of interest include the composition, turnover and degradation of articular cartilage and intervertebral disc. Candidates should be knowledgeable in the use of modern techniques, including nucleic acid and protein chemistry, tissue culture and/or molecular biology. Competitive salary range of $26,000 to $32,000 per annum. Send curriculum vitae and names of three references to: A. Ratcliffe, Ph.D., Orthopaedic Research Laboratory, Columbia-Presbyterian Medical Center, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE—position available immediately to conduct research in the area of genetic recombination and microbial differentiation, analyzing cloned genes required for genetic transformation in Streptococcus pneumoniae. Candidate must have Ph.D. in microbiology or molecular biology. Salary commensurate with experience. Send application letter, curriculum vitae, and names of three references to: Dr. Donald A. Morrison, Professor, Department of Microbiology and Developmental Biology, University of Illinois at Chicago, (mc'67), P.O. Box 4348, Chicago, IL 60680. Telephone: 312-996-4389. An Equal Opportunity/Affirmative Action Employer.

PROFESSORSHIP IN BIOLOGICAL NMR AND MACROMOLECULAR STRUCTURE is available in the Department of Chemistry and Chemical Biology at Harvard University. The position is to begin in the fall. The focus of the research is on the application of NMR and other biophysical methods to study the structure and function of proteins. Experience in NMR, protein engineering, molecular biology, and crystallography is desirable. The position is tenure track and is open to individuals with or without tenure status. Send curriculum vitae to: Professor Christopher Walsh, Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, 25 Shattuck Street, Boston, MA 02115. Harvard Medical School is an Affirmative Action Equal Opportunity Employer.

RESEARCH ASSOCIATE: Will perform research and analysis of the physical properties of biological molecules using NMR techniques to study the structure and dynamics of peptides and DNA and their interaction using NMR spectrometer and HPLC. Will write and program software for data analysis and develop appropriate techniques for studies of structures and dynamics of DNA and peptides by modifying NMR techniques through development of computer software, sequence analysis, and conformational development. Requires Ph.D. degree in chemistry. Education to include 2 years of research on peptide structures and DNA dynamics using NMR spectrometry, including maintenance and software development as well as computer molecular modeling. Hours: 8:30 a.m. to 5:00 p.m., Monday to Friday. Salary $20,000 per year. This job is a university position. Please send résumé to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605. Attention: Marie Nimmens, Reference #7594-N, An Equal Opportunity Employer paid ad.

RESEARCH ASSOCIATE Conduct cardiovascular research directed toward the study of ion and/or non-ion-dissolving drugs such as renin, angiotensin, aldosterone and their effect on the cardiovascular system. An application of knowledge of surgical techniques and working with test animals, candidate will inject dogs with aforementioned drugs through catheterization to study effects on cardiovascular system and their relationship to hemodynamic changes (cardiac functions), cardiac rhythm disturbances (ECG evaluations), venricular functions, arterial blood pressure and related activity to prevent serious arrhythmia and sudden heart death during coronary angiography. Study, evaluation and analyses of animal. This is a university position. Candidate must have medical degree or Ph.D., and 4 years of direct experience. Salary offered $32,000 to $40,000 per year. Please send letter of interest, resume and names of three references to: Mr. Gordon Stroud, Employment Office, San Francisco, CA 94158. Interview appointment: Mr. F. Melton, Ref. #V-11-7448-B. An employee paid ad.

RESEARCH ASSOCIATE: Research associate with Ph.D. in pesticide chemistry to carry out studies on the pharmacokinetics and metabolism of organophosphorus compounds and the naturally occurring Pesticides such as GLC, HPLC, TLC, as well as scintillation counting. Fourty hours per week. Salary: $20,000. If not a U.S. citizen, please indicate visa status. Apply: Employment Security Commission, 516 North Magnani Street, Durham, NC 27701 or your local job service. Job order: 1987-02-07-12-07. Affirmative Action Equal Opportunity Employer.
POSITIONS OPEN

RESEARCH ASSOCIATE position available for qualified candidate to work in a multidisciplinary unit within a Center of Cell and Molecular Biology in the area of immunology with an experience in monoclonal antibodies, ELISA and related assay methods. For further information call: 812-702-1778 or write: Dr. A. M. Scanlan, Studies Unit, 5817 South Maryland Avenue, Box 231, Chicago, IL 60637. The University of Chicago is an Equal Opportunity Employer.

RESEARCH ASSOCIATE—BIOCHEMISTRY

A research associate position is available in a x-ray and neutron diffraction studies of cyclodextrins. Analysis of hydrogen bonding networks will be emphasized. Extension of these studies into proteins and nucleic acids is anticipated. Experience in crystallography/biochemistry desirable. Send résumé to:

Dr. Brian E. Hingerty
Oak Ridge National Laboratory
Health and Safety Research Division
Building 9207, MS 002
Oak Ridge, TN 37831
An Equal Opportunity/Affirmative Action Employer

RESEARCH FACULTY POSITION

The Department of Obstetrics and Gynecology, University of Florida College of Medicine, under the direction of Byron J. Masterson, M.D., Professor and Chairman, is seeking applicants for a tenure-track faculty position (Ph.D.) starting August 1988 for candidates demonstrating exceptional research abilities with a strong background and experience in ultrastructural studies, wound healing, implantation, electron microcopy, and molecular chemistry. The individual should be prepared to establish an independent research program and assume teaching responsibilities. Postdoctoral experience in a related field is required. Salary and rank dependent upon qualifications. For full consideration, applicants should submit curriculum vitae and a brief statement of research interest by 1 March 1988 to: William C. Buhi, Ph.D., Department of Obstetrics and Gynecology, University of Florida College of Medicine, Gainesville, FL 32601.
An Equal Employment Opportunity/Affirmative Action Employer

SCIENTIST

The Universities Space Research Association (USRA) has a need for a scientist to prepare, coordinate, document, and distribute Science Requirements related to various microgravity science experiments involving USRA, NASA and university scientists. Work shall include interpretation of multidisciplinary needs, scientific evaluation of requirements as regards implementation, enhancing communication among project scientists and between USRA and implementation personnel. Candidates should hold a minimum of a master's degree in physics, materials science, materials engineering, mechanical engineering, or a related field and appreciate both physical and biomedical phenomena related to microgravity science. Candidates with a Ph.D. are encouraged to apply. Good verbal and written skills as well as a willingness to travel are also needed. Additionally, the candidate must have a good knowledge of the relationships between various NASA centers (especially Marshall Space Flight Center), USRA, and NASA-sponsored university scientists as regards the evolution of microgravity science experiments from theoretical hypotheis through to successful flight hardware. Work will be conducted at the Marshall Space Flight Center. Salary commensurate with experience (minimum $35,000 per year) with full medical and retirement benefits. Send résumé to: USRA, Dr. James M. Van Atta, 139-A McMurtrie Drive, Huntsville, AL 35806. USRA is an Equal Opportunity/Affirmative Action Employer.

INSTITUTE FOR MOLECULAR BIOLOGY (IMB), TAIPEI

SCIENTISTS with PhDs are invited to apply for positions in plant molecular biology, protein engineering and macromolecular x-ray crystallography. Send résumé, description of research plan, and two letters of recommendation before 15 March 1988 to: Dr. Ray Wu, Section of Biochemistry and Molecular Biology, Cornell University, Ithaca, NY 14853.

12 FEBRUARY 1988
positions open

senior research scientist

PDS Research Laboratories is seeking a person with a Ph.D. degree and experience in virology, molecular biology, and/or pharmacology. Applicants must have 1 to 3 years of postdoctoral training with published work in his or her research area. This position requires a good understanding of human retrovirology and offers high visibility and interaction with members of prominent scientific institutions including National Institutes of Health, U.S. Department of the Army and Food and Drug Administration through collaborations, publications, and presentations. Salary commensurate with experience and comprehensive benefits.

Applicants are invited to send a complete curriculum vitae to:

PDS Research Laboratories
Attention: Dana Lee
13 Tafa Dr.
Rockville, MD 20850
Telephone: 301-294-1279

staff scientist

Medtronic Inc., the international leader in implantable pacemakers, is seeking an individual with graduate or postgraduate work in bioengineering or physiology, and several years of experience in cardiovascular research. This person will conduct in vivo laboratory work with clinical consultants in evaluating the feasibility of novel pacing and other cardiovascular diagnostic and therapeutic concepts. Experience in acute and chronic animal studies and use of appropriate instrumentation is required. A Ph.D. in this field is preferred. Submit resume/curriculum vitae to: Venn Brews, Medtronic Inc., 7000 Central Avenue NE, Minneapolis, MN 55432. Equal Opportunity Employer.

vision science

Tenured or tenure-track position, rank and salary commensurate with qualifications. Vigorous research program in visual psychophysics, willingness to participate in teaching vision science to optometry students. Send letter of application, curriculum vitae, names of three references to: Dr. Jerry L. Chris- tensen, School of Optometry, University of Missour- i-St. Louis, 8001 Natural Bridge Road, St. Louis, MO 63121. Application deadline: 24 March 1988. An Equal Opportunity Institution.

zoologist/ecologist, tenure-track, starting fall, 1988. Ph.D. and strong interest in undergraduate teaching (including general biology) required. ABDs considered. Three to four hours of teaching load. Send letter of application, curriculum vitae, names of three references to: Dr. John E. Las- terna, Department of Biology, Southeast Missouri State University, Cape Girardeau, MO 63701-3970. Application deadline is 15 April 1988. An Equal Opportunity Employer.

course

mariculture: culture of marine invertebrates for research purposes

Designed to teach the basics of mariculture to advanced students, this course is scheduled for 22- 28 May 1988. Tuition: $850 (includes room and board). Application deadline is 1 April 1988. For further information, contact: The University of Maine, Maine Biological Laboratories, Woods Hole, MA 02543. Telephone: 617-548-3705, extension 216.

internship

illinois legislative science intern

Sangamon State University invites applications from graduates of science or engineering programs (baccalaureate, master's, doctorate) for a 10-month internship beginning 1 October 1988 as part of the Illinois Legislative Staff Internship Program. The science intern will be assigned to the Springfield and Chicago offices of the Illinois Legislative Research Unit which provides legislators with information and research about policy issues. The science intern will participate in an academic seminar with other legislative interns. Send curriculum vitae by 15 March 1988 to: Dr. Kent Redfield, Coordinator, Illinois Legislative Staff Intern- ship Program, Sangamon State University, Springfield, IL 62794-9243.

training program

neuroscience training program emory university

Applications are invited for graduate fellowships in neuroscience and biophysics, neural systems and psychobiology. The program combines intensive interdepartmental training in neuroscience and biophysics with an opportunity to specialize in one of the traditional disciplines. Interested candidates with a strong background in biologi- cal and physical sciences are invited to submit an application from: Director, Neuroscience Pro- gram, Department of Anatomy and Cell Biol- ogy, Emory University, Atlanta, GA 30322. Telephone: 404-727-4518.

fellows

fellowship in cell-microcircula-
tory physiologyn.

A position is available 1 July 1988 for the study of cell-cell communication in microvessels. Applicants should have an advanced degree in physiology, pharmacology, or cell biology. Training in electron microscopy, electrophysiology, or cell-cell commu- nication is desirable. Applicants should send letters of recommendation and a 2-page statement of purpose to: Dr. Brian R. Dalmau, Department of Physiology, School of Medicine, Box 445, Charlottesville, VA 22908. We are an Equal Opportunity Employer.

international cancer research fellowship

The Hayashibara Mutual Aid Fund, a non-profit- making organization within the Hayashibara Group announces a fellowship. The fellowship will be made annually. Fellowship will be taken up at the newly opened Fujisaki Cell Center which is devoted to basic and applied research related to problems in human cancer. The fellowship is normally made for one year and is renewable for up to five years. The fellowship will be expected to commence within 6 months of the announce- ment of the award. The awards are for high quality research work in one of the three categories described below.

1) Fundamental Leukemia-Lymphoma Research
2) Cytokine-Lymphokine Research
3) Hematopoietic Cell Cultures

Qualified person who has a Ph.D. or equivalent. Three theses are available on men's to suitable qualified research proposal and experiences. Additional information and application forms will be obtained from Jun Minowada, M.D., Director, Fujisaki Cell Center, 675-1, Fujisaki, Okayama 702, Japan.

marine biological laboratory marine ecol- ogy fellowships


the arnold arborectum of harvard university

the katharine h. putnam fellowships in tree science

Applications are invited from established scholars seeking sabbatical opportunities or from young scientists, who wish to pursue research which would substantially benefit from access to the living woody plant collections of the Arnold Arboretum, and their supporting herbaria and libraries. Fellowships are tenable for up to 1 year. Fields of research can include theoretical and applied botany, horticulture, forestry, landscape architecture and relevant social sciences. Applicants must be willing to travel to the arboretum in the University. The fellowship will provide a salary plus fringe benefits according to Harvard University norms. Travel costs to Boston will be reim- bursed.


fellowships

postdoctoral fellowship medical university of south carolina

One-year intensive training program in alcohol re- search. Funded faculty research programs include alcohol teratology, behavioral pharmacology, neurochemistry, and senescence biology. Fellowship begins on begin- ning 1 July 1988. Applicants must be U.S. citizens with Ph.D. or M.D. Send curriculum vitae and three refer- ences to: Dr. Carrie Randall, Alcohol Fellowship Program, Department of Research Services, Charles- ton, SC 29403. Application deadline is 15 March 1988. Equal Opportunity Employer.

postdoctoral fellowship: in biological chemistry and molecular biology, to study the purification, antigen production, and molecular cloning from a cDNA library of transforming growth factors induced by x-irradiation of plateau-phase mammalian bone mar- row stromal cell lines. P.D. in molecular biology or biochemistry. Please send curriculum vitae and three letters of recommendation to: Joel S. Greenberger, M.D., Department of Radiation Oncology, University of Miami School of Medicine, Box 198980, Miami, FL 33199. Tel: 305-243-5500. We are an Equal Opportunity/Affirmative Action Employer.

the california institute of technology, division of engineering and applied science, invites applications for POSTDOCTORAL FELLOWSHIP in VISUAL PSYCHOPHYSICS.

the dr. chaim weizmann postdoctorate fellowship for scientific and engineering research (restricted to U.S. citizens)

the myron a. bantrell postdoctoral fellowship for scientific and engineering research (restricted to U.S. and Israeli citizens)

the institute for molecular medicine and the institute for biological sciences of the university of oxford announces a number of postdoctoral fellowships in molecular medicine, research which would substantially benefit from access to the living woody plant collections of the Arnold Arboretum, and their supporting herbaria and libraries. Fellowships are tenable for up to 1 year. Fields of research can include theoretical and applied botany, horticulture, forestry, landscape architecture and relevant social sciences. Applicants must be willing to travel to the arboretum in the University. The fellowship will provide a salary plus fringe benefits according to Harvard University norms. Travel costs to Boston will be reim- bursed.

The fellowship will have a one- to two-year duration, beginning in the fall or winter of 1988. The program is intended for those who have just completed their Ph.D. Inquiries should be addressed to: Professor Paul C. Jennings, Chairman, Division of Engineering and Applied Science, California Institute of Technology, Pasadena, CA 91125. The deadline for completed applications is 30 May 1988. The Institute is an Equal Opportunity/Affirmative Action Employer and welcomes applications from women and minorities.

postdoctoral research fellowships—vision immunology

The vision-immunology Center of the University of Connecticut Health Center currently has a limited number of postdoctoral fellowships for qualified individuals (Ph.D., M.D. or equivalents) in the areas of ocular inflammation and repair, transplantation, autoimmunology, and immunology and molecular immunology. All positions are supported by NEI Training Grant and M.S. fellowship. Contact: Dr. James O'Rourke, Vision Immunology Center, University of Connecticut Health Center, Farmington, CT 06032. An Affirmative Action/Equal Opportunity Employer.

predoctoral fellowships in biomedietal and physical sciences

biochemistry • biology • bioinformatics • biomedi- cal engineering • biophysical sciences • biostatistics • cell biology • clinical biochemistry and lab. medicine • computer science and biology • environmental health • epidemiology • genetics • immunology • materials engineering • medical physics and biophysics • molecular biology • neuroscience • nutrition sciences • pathology • pharmacology • physics • physiological optics • physiology • public health • radiology • toxicology

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Manager, CAN/SND
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National Research Council Canada
Ottawa, CANADA K1A 0S2

Please send more information about the following CAN/SND databases:

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☐ CRYSTMET  ☐ CRYSTIN  ☐ CRYS DAT
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