Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Any deadline in ad must be at least 5 weeks after date of issue in which ad appears. Also, personnel advertising is accepted only with the understanding that the advertiser does not discriminate among applicants on the basis of race, sex, religion, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

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

LINE CLASSIFIED (POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth):
$40.00 per line, $400 minimum, per week (minimum charge covers one column). Each inch equals 10 lines of 52 characters and spaces per line. No charge for use of box number. No agency commission for ads less than $100. No cash paid for display advertising. Prepayment required for all foreign ads. Purchase orders required for all advertising.

To ESTIMATE ad cost:
Structure ad copy on a separate page, on lines of 52 characters. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. Lines located within the text are printed in boldface caps and are only 32 characters per line. In 3/8 inch type, multiply total lines x $40.00 = approximate cost of ad. (This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and the resulting line cost. Purchase orders must allow for some degree of flexibility and/or adjustment.)

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NOTE: Ad cancellations made after Thursday, two weeks prior to date does incur a 10% processing charge. Ad cancellations made after Thursday, one week prior to issue date. Cancellation must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/2 page in size (39 lines) to:
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1333 H Street, NW, Room 940
Washington, DC 20005

Send copy for Fractional Display ads, 1/2 page and larger, and all Marketplace ads to:
Scherago Associates, Inc.
152 Broadway
New York, NY 10038
Telephone: 212-730-1050

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

POSITIONS WANTED

Food Polymers—Chemist, Ph.D. with successful record of technical problem solving (extrusion) and ingredient functionality enhancement with a major consumer products manufacturer. Experienced with ingredient value addition: grain fiber (SDF/TDF), starches, surfactants and stabilizers. Technical manager of citrus by-product utilization program. Expertise in novel ingredients and prototypes for clinical studies. Skilled in thermal analysis and NMR methodologies. Seeks opportunity at senior technical level. (No search firms.) Box 124, SCIENCE.

Chemist, Biochemist, Physiological Sciences, Ph.D., M.D., Extensive teaching: clinical and analytic biochemistry, cancer, instrumentation; visible, UV, infrared, TLC, GC, HPLC, fluorometry, government, academic/hospital. Box 354, Rochelle Park, NJ 07662.

POSITIONS WANTED

Immunologist, M.S. seeks research and development position with biotechnology/pharmaceutical company. Five years of experience in monoclonal antibody production and characterization, immunosay development, biochemical techniques and in-vivo and in-vitro tumor studies. Laboratory management/research with computer data/biblical analysis experience. Curriculum vitae and references available upon request. Box 142, SCIENCE.

M.D. seeks a challenging position in biotechnical/biomedical/pharmaceutical industry or academia. Interested in P.E.T., M.R.I. and monoclonal antibodies. Background: Fellowship in biomedical engineering and board-eligible in nuclear medicine. Prefer California, will consider West, Southwest, or Florida. Telephone: 213-431-8089. Box 151, SCIENCE.

AQUATIC ECOLOGIST

Ph.D. or M.S. with expertise in aquatic entomology. SAS, report writing, project management, and supervision of technical staff experience required. Send letter of application, curriculum vitae, and names of three references to: Professor John Alexander, WAPOR, Inc., 2110 Anderson Ferry Road, Cincinnati, OH 45238.

The University of Cincinnati, Department of Chemistry, invites applications for a tenure-track position in inorganic chemistry including bioinorganic chemistry at the ASSOCIATE PROFESSOR level beginning in September 1990. All research areas will be considered. Candidates must have the Ph.D., proven ability in research, and a commitment to excellence both in research and in undergraduate and graduate teaching. Postdoctoral experience is desirable. Curriculum vitae, list of publications, and a brief statement of research interests should be sent to: Professor John Alexander, Department of Chemistry, University of Cincinnati, Cincinnati, OH 45221–0172. The candidate should also arrange for three letters of professional reference to be sent to the above deadline. Deadline for receipt of all materials is 8 November 1989. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

The University of Cincinnati, Department of Chemistry, has reopened its search for an ASSISTANT PROFESSOR in the Biochemistry Division. This is a tenure-track position with a starting date of 1 September 1990. The preferred candidate will be a physical biochemist, active in the area of study of the structure, folding, and/or dynamics of biological macromolecules, although superior candidates in other areas will be considered. The successful candidate will have postdoctoral experience and a clear record of published expertise. The Chemistry Department is well supplied with modern instrumentation, of which the most recent acquisitions include a broadband wide-bore 400 MHz NMR with CP/MAS capabilities, a broadband 200 MHz NMR, and a Bruker ESP 300 EPR. Inquiries, applications, and four letters of recommendation should be sent to: Dr. H. Brian Hall, Chairman, Biochemistry Search Committee, Department of Chemistry, University of Cincinnati, Cincinnati, OH 45221–0172. The closing date is 8 November 1989. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer. Women and minorities are strongly encouraged to apply.
University of Maryland at College Park. The Department of Chemistry and Biochemistry invites applications for two tenure-track faculty positions in the general area of biochemistry at the level of ASSISTANT PROFESSOR. Exceptional candidates at the senior level will also be considered. One position is to be a joint appointment with the Computer Science and Biotechnology. Outstanding candidates in all areas of biochemistry will be considered. Applicants for the joint appointment must have an M.D. and/or Ph.D. M.D. candidates should hold the Ph.D. in physical or analytical chemistry, pharmacology, or a related field with a strong physical-chemical background, and should have relevant postdoctoral research experience. Teaching responsibilities will include undergraduate and graduate courses. Please send a complete curriculum vitae with a description of research interests and proposed research, and addresses of at least three references by 1 November 1989 to: Professor Richard N. Armstrong, Chairman, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742.

ASSISTANT PROFESSOR. A new tenure-track position will become available in August 1990 for a qualified individual who has demonstrated the ability to carry on an independent, vigorous and productive research program in one of the following areas: control of gene expression; physical biochemistry; protein structure and function; membrane structure and function. Required qualifications are a Ph.D. degree in biochemistry or a closely related field, two or more years of postdoctoral training and an established record of research. Applicants should submit curriculum vitae, a statement of research plans and objectives, and arrange for three letters of recommendation to be sent by 1 November 1989 to: Professor Kenneth A. Conners, Department of Biochemistry, University of Wisconsin-Madison, Madison, WI 53706. Telephone: 608-262-2990.

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

ASSISTANT PROFESSOR—SUNY Stony Brook. The Department of Microbiology at SUNY Stony Brook invites applications for a tenure-track assistant professor position. Candidates must have an M.D. and/or Ph.D. postdoctoral experience and demonstrated commitment and potential for basic research in the area of molecular biology. In addition to a Ph.D. in molecular biology, a statement of research interests, and have three letters of recommendation sent to: Search Committee, Department of Microbiology, SUNY Stony Brook, Stony Brook, NY 11794-8621. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK 201.

ASSISTANT PROFESSOR. The Department of Biological Chemistry and Molecular Pharmacology, Harvard Medical School, intends to make an appointment at the assistant professor level to begin in the fall of 1990. We are actively seeking applicants with strong research backgrounds in molecular biology, biochemistry, and molecular pharmacology, including membrane biology, structural biology, and gene regulation. Applicants are invited to send curriculum vitae, a statement of research plans, and list of three to four referees to: Professor Christopher T. Walsh, Chairman, Biological Chemistry and Molecular Pharmacology, Search Committee, 240 Longwood Avenue, Boston, MA 02115. Women and minorities are encouraged to apply. Harvard University is an Equal Opportunity Employer.

ASSISTANT PROFESSOR—MICROBIOLOGIST. Full-time (9-month) tenure-track position, can begin either in January or September 1990. Teaching to include general and applied microbiology, nurses' microbiology, and general biology. Competence in immunology is desirable. Ph.D. is required. Send curriculum vitae and names and addresses of references to: L. Gepner, Chair, Department of Biology, Monmouth College, West Long Branch, NJ 07764. Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR—PLANT PATHOLOGY. Tenure-track. Research (90%)/teaching (10%). Auburn University, Auburn, Alabama. Research will include molecular, physiological, and biochemical studies on plant infectious agents. Identification and characterization of pathogens using new techniques for characterizing races, biotypes, or closely related species of phytopathogenic fungi, bacteria, and viruses. Teaching will include laboratory instruction and supervision of undergraduate research. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Elissa L. Newport, Developmental Search Committee, Department of Plant Pathology, Auburn University, Auburn, Alabama 36849.

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

Tenure-track ASSISTANT/ASSOCIATE PROFESSOR IN HUMAN AND ANIMAL BIOLOGY. The School of Pharmacy at the University of Wisconsin-Madison invites applications for a full-time tenure-track position at the assistant professor level in the area of medicinal and biological chemistry including an independent, aggressive, and fundamental program of physical chemical studies of the structure, properties, and biological role of macromolecules (such as peptides, proteins, nucleic acids, or carbohydrates). The primary interest should be in generating new knowledge at the molecular level, though the research should have potential applications to health problems. Applicants should hold the Ph.D. in physical or analytical chemistry, pharmacology, or a related field with a strong physical-chemical background, and should have relevant postdoctoral research experience. Teaching responsibilities will include undergraduate and graduate courses. Please send a complete curriculum vitae with a description of research interests and proposed research, and addresses of at least three references by 1 November 1989 to: Dr. Kenneth A. Conners, Department of Chemistry, University of Wisconsin-Madison, Madison, WI 53706.

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

ASSISTANT PROFESSOR MOLECULAR BIOLOGIST UNIVERSITY OF ILLINOIS AT CHICAGO

The Laboratory for Molecular Biology of the Department of Biological Sciences invites applications for a tenure-track assistant professor to begin September, 1990. The Laboratory is interested in further expanding its strong molecular genetics research group. Outstanding candidates with postdoctoral experience in both experimental and/or generic approaches to modern cellular or developmental problems will be considered. Successful candidates are expected to begin with a Ph.D. or M.D. degree with postdoctoral experience, and to provide evidence that they can pursue a vigorous, independent research program, and contribute to the Department's teaching program. Please apply before 1 November 1989, by submitting curriculum vitae, description of research interests, and names of at least three references to: Molecular Biology Search Committee, c/o Dr. Sidney P. Gepner, c/o Head, Department of Biological Sciences (M/C 666), University of Illinois at Chicago, P.O. Box 4348, Chicago, IL 60680. UIC is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR/ MOLECULAR BIOLOGY

Applications are invited for a tenure-track position in the area of molecular biology. We are seeking candidates with a strong interest in DNA replication, gene regulation and/or expression in mammalian systems, but excellent candidates in other areas of molecular biology will be considered. The appointee will be expected to develop, independently a strong research program and be involved in teaching of graduate students. Interested individuals should send a curriculum vitae, reprints, and brief description of future research interests, and the names and addresses of three referees to: Dr. Louise Prakash, Head, Molecular Biology Search Committee, Department of Biophysics, University of Rochester School of Medicine, Rochester, NY 14642. An Equal Opportunity Employer M/F.

ASSISTANT/ASSOCIATE PROFESSOR. The Department of Microbiology and Immunology of the University of Michigan Medical School seeks an immunologist for a tenure-track appointment as assistant associate professor. The successful applicant will be expected to develop an independent research program applying modern molecular/cell biological approaches to the study of the immune response. The position requires active participation in graduate and medical student. Support, a well-equipped laboratory and start-up funds are available from departmental resources. Send curriculum vitae, brief statement of research interests, and names and addresses of three referees by 30 January 1990 to:

Dr. J. Latham Claffin
Immunology Search Committee
Department of Microbiology and Immunology
The University of Michigan Medical School
M6644/0620 Medical Science Building II
Ann Arbor, MI 48109-0620

The University of Michigan is an Equal Opportunity/Affirmative Action Employer.
**Neurogen Corporation**, a development-stage company in the field of neuroscience, is currently expanding its staff in molecular biology. We offer several excellent opportunities for innovative scientists wishing to join our multidisciplinary staff. Neurogen scientists are developing novel therapeutics for neurological and psychiatric disorders.

Candidates should have Ph.D. (or equivalent) degree and postdoctoral experience in one of the following areas:
- Cloning of ligand-gated channel proteins or G-protein-linked receptors
- Transfection of mammalian cell lines
- PCR methodology

Neurogen is located in Branford, Connecticut, close to New Haven (halfway between New York and Boston). We offer a stimulating intellectual environment and state-of-the-art laboratory facilities. The company has a comprehensive compensation program consisting of competitive salary, equity participation, health and medical programs as well as relocation assistance. Applicants should apply in confidence to:

Director of Human Resources  
Neurogen Corporation  
35 Northeast Industrial Road  
Branford, Connecticut 06405  
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**DIRECTOR, ATMOSPHERIC CHEMISTRY DIV.**

The successful candidate will be responsible for the overall scientific productivity, creativity, and excellence of a National Center for Atmospheric Research division. Specific responsibilities include laboratory management planning, quality maintenance of the scientific and support staff, employee management, and the planning and management of budgets and new funding sources. Qualifications include a PhD in any of the biological, environmental or physical sciences or an equivalent combination of education and experience. A demonstrated research record of scientific merit, strong leadership skills in developing scientific programs, and demonstrated management and leadership skills in budget development, personnel, program advocacy, and planning are also essential qualifications. Salary range is $67,200-$85,800/month.

Send curriculum vitae and list of publications to: Searl G. Brier, NCAR, P.O. Box 3000, Boulder, Colorado 80307.

NCAR is an AA/EEO Employer. Applications from women, minorities, the disabled, and Vietnam Era and special disabled veterans are encouraged.

**DEAN**  
Loyola University of Chicago  
Stritch School of Medicine

Loyola University of Chicago invites nominations and applications for the position of Dean of the Stritch School of Medicine.

Founded in 1909, the Stritch School of Medicine has been located in Maywood, Illinois, as part of the Loyola University Medical Center since 1969. The Medical Center includes the 567-bed Foster G. McGaw Hospital, the Mucilag Outpatient Center, Schools of Medicine and Dentistry and clinical facilities for the School of Nursing. Adjacent to the Medical Center are the State of Illinois Madden Mental Health Center and the Hines Veterans Administration Hospital, a Dean’s Committee hospital, with which the Medical School faculty is integrated. As one of the Midwest’s leading medical schools, the Stritch School of Medicine and its more than 1,100 faculty members provide instruction and training to 350 students and 479 residents and postdoctoral fellows and maintain affiliations with 25 hospitals in the Chicago metropolitan area.

Candidates for the position of Dean are expected to demonstrate an understanding and appreciation of Loyola University’s historic mission. They should possess an M.D. or a Ph.D. degree (or an equivalent terminal degree). Those who have demonstrated leadership and excellence in education, research and administration will be given particular consideration. A distinguished academic background with scholarly attainments, a history of teaching effectiveness, an acknowledged reputation in the provision of exemplary health care are among the criteria that will be used in the selection of final candidates for this important position.

Nominations and requests for applications should be made prior to November 1, 1989. Address all correspondence to Leonard L. Vertuno, M.D., Chairperson, Search Committee for the Dean, Loyola University Medical Center, 2160 S. First Avenue, Maywood, Illinois 60153.

**LOYOLA UNIVERSITY**  
**CHICAGO**

LOYOLA UNIVERSITY OF CHICAGO IS AN EQUAL OPPORTUNITY, AFFIRMATIVE ACTION EMPLOYER
POSITIONS OPEN

ASSISTANT PROFESSOR POSITIONS
DUKE UNIVERSITY MEDICAL CENTER
DEPARTMENT OF CELL GROWTH, REGULATION, AND ONCOGENESIS
DUKE COMPREHENSIVE CANCER CENTER

Duke University Comprehensive Cancer Center invites applications for tenure track positions in the Section of Cell Growth, Regulation, and Oncogenesis at the level of assistant professor. Investigators working at the molecular level in any area of cancer biology are encouraged to apply. The position will be given to those working in the areas of growth factors, and their receptors, signal transduction, molecular basis of onco- gene action, growth control, molecular oncogenes and multiple drug resistance. Minimally, applicants must have a doc- torate, and 2 years of postdoctoral training. Candidates must have demonstrated high potential for imaginative, substantial independent research. Successful candidates will also be appointed into a basic science department within the Medical Center.

Applicants should send curriculum vitae, a brief de- scription of present and proposed research to: Mr. Robert M. Bell, Head, Section of Cell Growth, Regulation, and Oncogenesis, Comprehensive Cancer Center, Box 3711, Durham, NC 27710. Applicants should arrange for three or more letters of recom- mendation to be forwarded to the same address.

To be assured of full consideration, the application should be received by 24 November 1989.

Duke University is an Equal Opportunity/Affirmative Action Employer.

Tenure-track ASSISTANT/ASSOCIATE PROFESSOR WILDERSHIP management/ornithology. Must have doctoral degree requirements completed by 1 September 1990. Required: strong commitment to teaching; gradua- te training in wildlife management and avian ecology. A broad biology background, experience in college teach- ing and in wildlife management or environmental impact assessment; and experience in computer applications. Duties: teaching wildlife manage- ment, ornithology, ecology, conservation, and general biology; participating in program development, student advising and supervising master's level graduate research; may include activity in minority student pro- grams. Submit resume, all transcripts, and names of three references to: Tom Kants, Chairman, Department of Biological Sciences, California State University, Sacra- mento, CA 95819. Closing date: 15 October 1989. The department is committed to improving the diversity of its faculty and encourages qualified women, underrepresented ethnic minorities, disabled individuals, and Vietnam-era veterans to apply for this position.

MOREHOUSE SCHOOL OF MEDICINE
ASSISTANT OR ASSOCIATE PROFESSORS
ANATOMY, MOLECULAR GENETICS, MOLECULAR IMMUNOLOGY

Morehouse School of Medicine (MSM) seeks candi- dates for a position in the Department of Anatomy at the level of assistant professor and for two positions in molecular genetics and molecular immunology at the level of assistant or associate professor. The molecular genetics and molecular immunology appointments will be made in the department appropriate to the academic qualifications and interests of the appointees. Applicants should have the Ph.D. or M.D. degree.

Candidates for associate professor should have well-established, independently funded research programs and several years of medical/graduate school teaching experience.

Candidates for assistant professor should have strong research records in the area of molecular biology and experience in teaching postdoctoral experience, rec- rords of research productivity and independence, and some teaching experience.

Morehouse School of Medicine is an expanding, new, private medical school with a strong commitment to the academic and scientific growth of minority students.

Initial screening of candidates will begin 1 November 1989. Applications should include curriculum vitae, a state- ment of research interests including funding history, and the names, addresses, and telephone numbers of at least three references. Send applications to: Thomas E. Nor- ris, Ph.D., Senior Associate Dean, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310–1495.

POSITIONS OPEN

ASSISTANT PROFESSOR OF ANATOMY/DE- VELOPMENTAL NEUROBIOLOGY. Applications are invited for a tenure-track faculty position. The faculty member will be expected to participate in teach- ing histology and anatomy to dental and dental hygiene students and to conduct research resulting in a research program with extramural funding. Individuals doing re- search in neural crest derivatives are particularly ap- propriate, although other areas of research will be consid- ered. Send a complete curriculum vitae, a brief statement of research interests, selected reprints, and the names of three references to: Dr. Lee Robertson, Department of Anatomy, School of Medicine, Progenics Pharmaceuticals, Inc., 3880 Park Avenue, Edison, NJ 08830–2419. Equal Opportu- nity Employer.

ASSISTANT/ASSOCIATE PROFESSOR IN MICROBIOLOGY/IMMUNOLOGY. Several ten- ure-track faculty positions are available to talented investi- gators who can establish independent, high quality research programs in the areas of virology and immunology. Excellent new facilities and attractive start- up funds available. Submit curriculum vitae, statement of research interests and accomplishments, the names, addresses, and telephone numbers of three references to: Dr. Katherine Knight, Chairperson, Department of Mi- crobiology, Loyola University of Chicago, Stritch School of Medicine, 3135 West Division Street, Chicago, IL 60657-6440. Loyola University of Chicago is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR IN EUKARYOTIC MOLECULAR GENETICS

Applications and nominations invited for faculty posi- tion in non-mammalian, eukaryotic molecular genetics. Candidates with outstanding academic achievements and a commitment to research will be considered. Send curriculum vitae, a brief research plan, and request three letters of recommendation be sent to: Dr. Raju Kucherlapati, Department of Molecular Genetics, Al- bert Einstein College of Medicine, 1300 Morris Park Avenue, Bronx, NY 10461. AECOM is an Equal Opportu- nity/Affirmative Action Employer.

BIOCHEMICAL INSTRUMENTS/ SALES SUPPORT


ROCKEFELLER FOUNDATION

African Dissertation Internship Awards

Doctoral students from sub-Saharan Africa are invited to apply to The Rockefeller Foundation for dissertation research support. The program enables Ph.D. students enrolled in U.S. and Canadian universities to return to Africa for extensive field research in areas relevant to economic development or poverty alleviation. Priority is given to research topics in the fields of agricul- tural, health, and life sciences, but other proposals are welcome.

Applicants are responsible for arranging affiliation with an African institution able to provide needed research support, such as laboratory facilities, access to study sites, and technical advice. The candidate’s faculty advisor, the host institution in Africa, and the agency with primary responsibility for financing the student’s graduate work must all send letters of endorsement.

Deadlines for applications are October 1, 1989 and March 1, 1990. Candidates should apply with a statement of the expected field work starting date.

For a full description of the competition and the application requirements, write to: African Dissertation Internship Awards, The Rockefeller Foundation, 1133 Avenue of the Americas, New York, NY 10036.
SENIOR NEUROBIOLOGIST/NEUROSCIENTIST

National Institute of Mental Health Intramural Research Program

The NIMH is accepting applications for a senior neurobiologist/neuroscientist with interests in studying basic brain mechanisms of behavior. Applicants must hold a doctoral degree or equivalent and be interested in joining an established research program involving behavioral neurophysiology, neuroanatomy, neuropsychology, developmental neurobiology, neuroethology and other disciplines. The laboratory facilities are located in a rural setting approximately 30 miles west of the main NIH Bethesda campus near the town of Poolesville, Maryland. Researchers in the fields of neurophysiology, neuroanatomy, experimental psychology (including physiological psychology), developmental neurobiology, and related fields in the brain and behavioral sciences are especially encouraged to apply. Excellent facilities exist for primate research. The successful candidate should have broad experience and established credentials in the neurosciences. Duties will include scientific leadership and administration of a laboratory, as well as conduct of an internationally-recognized research program. Salary will be commensurate with other NIMH researchers having similar responsibilities, approximately $57,158 to $75,500 plus full Federal benefits. Send C.V., bibliography, a statement of future research directions, and the names of three references to:

Steven M. Paul, M.D.
Acting Director, Intramural Research Program
National Institute of Mental Health
Building 10, Room 4N-224
9000 Rockville Pike
Bethesda, Maryland 20892

NIMH IS AN EQUAL OPPORTUNITY EMPLOYER

Clinical Research Physicians

Procter & Gamble has immediate openings for Clinical Research Physicians in Cincinnati, Ohio. Candidates should be MDs or MD/PhDs with post-graduate clinical experience and strong research backgrounds. These physicians will be responsible for coordinating clinical development of investigational drugs and will interact daily with management and other professionals.

We offer competitive salary, comprehensive benefits, and excellent opportunities for career advancement along with the challenge and opportunity to impact a rapidly growing segment of our business.

Applicants must be presently authorized to work in the U.S. on a full-time basis. Send CV to: Dr. T. J. Logan, Box S, THE PROCTER & GAMBLE COMPANY, P.O. Box 398707, Cincinnati, Ohio 45239-8707.

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Faculty Position in Structural and Cellular Biology

The Department of Structural and Cellular Biology of the University of South Alabama College of Medicine is seeking applications for a tenure track position at the Assistant Professor level to begin in spring or summer 1990. The Department currently has ten full time well funded faculty, who are working in the areas of cellular biology, molecular biology, endocrinology and neuroscience. We are seeking individuals with postdoctoral experience, and research background in the use of molecular and cellular biology methodologies to study important questions in neuroscience. The area of interest would include, but not be restricted to, the molecular basis of synaptic transmission, vesicular release, brain regeneration and repair, axonal transport, control of neurite extension, neurotransmitter synthesis and regulation, and function of the neural cytoskeleton. Candidates would be expected to establish a well funded research program.

Our department is responsible for teaching medical courses in Neuroanatomy, Gross Anatomy, Embryology and Histology, as well as graduate courses in Cell Biology and other related disciplines. We are particularly interested in individuals who can contribute to our teaching of Medical Neuroanatomy and graduate Neuroscience.

Competitive salaries and start-up funding are available. Applicants should submit, prior to November 1, 1989, curriculum vitae, statement of current and planned research interest, and letters from at least three references. Expression of interest is particularly invited from qualified women and minority candidates.

Send formal applications to:
Dr. Steven R. Goodman, Chair
Department of Structural and Cellular Biology
College of Medicine, Room 2042 MSB
University of South Alabama
Mobile, Alabama, 36688

The University of South Alabama is an Affirmative Action Equal Opportunity Educational Institution.

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Oak Ridge, TN 37831-0117
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Information and applications:

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P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-3190
POSITIONS OPEN

ASSISTANT/ASSOCIATE FULL PROFESSOR

The Department of Biochemistry in the School of Medicine of Southern Methodist University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, starting August 1990. Candidates should have a research program in any area of molecular biology, and preferably one that includes the application of modern molecular biological techniques to the study of bean or soybean diseases. Applicants will be expected to fill a full-time, permanent, faculty position. The successful candidate will be expected to have or develop a research program with independent support and to participate in teaching at the graduate level. Rank will be commensurate with experience. Send curriculum vitae, names of three references, and a brief statement of research interests to: Dr. Neil E. Rowland, Department of Biochemistry, Southern Methodist University, Dallas, TX 75277. SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.

BEHAVIORAL NEUROSCIENCE

The Department of Psychology, University of Florida, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, starting August 1990. Candidates should have a research program in any area of psychobiology, but preferably one that includes the application of modern neurobiological techniques to the study of behavior. Send curriculum vitae, names of three referees, and a brief statement of research interests to: Dr. Jim T. Weller, Department of Psychology, University of Florida, Gainesville, FL 32611. The University of Florida is an Equal Opportunity/Affirmative Action Employer. The selection committee is comprised of representatives of Florida's "Government in the Sunshine" and Public Records. Closing date: 15 November 1989.

BIOCHEMIST/ASSOCIATE PROFESSOR

Seek associate professor for 12-month, tenure-track position with 80% research and 20% teaching. Should have a research program in any area of molecular biology and experience in teaching. Send curriculum vitae, statement of research interests and plans, and three letters of reference to: Dr. R. B. Angstadt, Chairman, Department of Biochemistry, University of Kentucky, Lexington, KY 40506. Salary competitive. Applications due 11 November 1989.

BIOCHEMISTRY FACULTY POSITIONS

The Department of Biochemistry of the West Virginia University School of Medicine has two tenure-track positions available at the assistant, associate or full professor level. A biochemist using MOLECULAR BIOLOGICAL TECHNIQUES will be sought for a position in microbiology. All areas of molecular biology will be considered. The position is for a PROTEIN CHEMIST. All areas of protein chemistry will be considered. Applicants are expected to establish independent research programs and participate in teaching. Candidates should have a Ph.D., postdoctoral experience and demonstrated productivity. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. R. B. Angstadt, Chairman, Department of Biochemistry, University of Kentucky, Lexington, KY 40506. Salary competitive. Applications due 11 November 1989.

BOTANY/CYTOLOGY: BIOLOGIST, ASSOCIATE ASSOCIATE PROFESSOR, to start January or September 1990, in the Department of Botany at the Ohio State University, Columbus, Ohio. In addition, the University of Vermont and the University of Maine have positions advertised. Send curriculum vitae and a description of research plans to: Dr. John K. H. Smith, Department of Botany, University of Vermont, Burlington, VT 05405. Salary competitive. Applications due 15 November 1989.

BILOGISTS

Southern Methodist University invites applications for two tenure-track positions at either the assistant or associate professor level in the Department of Biological Sciences. We seek individuals whose training and research interests will complement current programs in biochemistry, cell biology, molecular biology, and ecology. The successful candidate will be expected to develop a research program that will merit extramural funding and that both undergraduate and predoctoral graduate students. MOLECULAR GENETICIST: Preference will be given to individuals working on either Drosophila or yeast. Teaching load: At least two undergraduate courses. MOLECULAR PHYSIOLOGIST: Preference will be given to individuals who can apply the techniques of molecular biology, and who is qualified to teach an undergraduate course in animal physiology. Submit applications by 1 November 1989 to the Chairman of the appropriate search committee, Department of Biological Sciences, Southern Methodist University, Dallas, TX 75277. SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.

BIOLOGY: ASSISTANT PROFESSOR with speciality in plant science, beginning January 1990. Tenure-track position. Teaching responsibilities include teaching plant physiology, plant anatomy, plant geography and electives in the area of plant science. The successful candidate will be expected to develop a research program in plant science. Salary: $29,500. Send curriculum vitae, statement of research interests, and three letters of reference to: Dr. R. B. Angstadt, Chairman, Department of Biology, Southern Methodist University, Dallas, TX 75277. Applications to: The Omega Chemistry Committee, Southern Methodist University, Dallas, TX 75277. SMU is an Equal Opportunity/Affirmative Action/Title IX Employer.

MOREHOUSE SCHOOL OF MEDICINE CHAIR

DEPARTMENT OF PHARMACOLOGY

Morehouse School of Medicine (MSM) invites applications for the position of Professor and Chair of the Department of Pharmacology to begin 1 July 1990. The candidate should be a well-established investigator in a current field of research who has demonstrated a strong commitment to teaching medical students. The applicant should have demonstrated academic administrative capabilities. Applicants must have the Ph.D. or M.D. degree.

Morehouse School of Medicine is an expanding, new, private medical school with a strong commitment to the academic and scientific growth of minority students. The position offers an opportunity to develop an outstanding, progressive department in an institutionally supported, metropolitan institution. The chair must have a Ph.D. or M.D. degree, with postdoctoral experience and demonstrated productivity. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. R. B. Angstadt, Chairman, Department of Pharmacology, Morehouse School of Medicine, 720 Westview Drive, S.W., Atlanta, GA 30310–1495.

BILOGICAL SCIENCES

National Institute of Child Health and Human Development, National Institutes of Health, Bethesda, MD 20892

A CHIMESTRY/BIOLOGY TECHNICAL POSITION is available immediately for a U.S. citizen or permanent resident to join ongoing research on PROTEIN HORMONE RECEPTORS AND ACTIONS. Applicants should have knowledge of molecular and cell biology, protein chemistry and an understanding of biochemistry, molecular genetics, microbial or eukaryotic cell equivalence is required. The starting salary is commensurate with experience. Applications with full curriculum vitae and three references should be addressed to: Dr. E. C. Johnson, National Institutes of Health, Building 10, Room 8C-407, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

COGNITIVE PSYCHOLOGIST

The Department of Psychology, University of Rochester, anticipates filling a tenure-track position in cognitive psychology for the 1990–1991 academic year. Candidates may have research interests in any area of cognition. The ability to establish and maintain an independent and ongoing program of research and to make major contributions to both undergraduate and graduate teaching are key considerations. Women and minority candidates are particularly encouraged to apply. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Michael K. Tanenhaus, Cognitive Search Committee, Department of Psychology, University of Rochester, Ella B. Kallison Building, 215 East River Road, Rochester, NY 14627. Deadline for receipt of application materials is 1 December 1989. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

CURATORIAL POSITION, POLYCHAETES

Applications solicited for assistant or associate curator, Section of Invertebrates. Responsibilities consist of col-

DIRECTOR AND RESEARCH SUPPORT POSITIONS ACADEMIC BIOTECHNOLOGY SUPPORT FACILITY

The University of Kansas Medical Center is seeking a Director and two master’s level research support person-

DIRECTOR OF ANALYTICAL LABORATORIES, Cornell University Department of Food Science and Technology in Geneva, New York, seeks a chemist for a 12-month term position to start 1 February 1990. The appointee will be expected to design and conduct a research program in analytical problems associated with food production and agriculture and the goal of elucidating the impact of agricultural and food production practices on health, food safety, and the environment. Will direct the operation of an analytical chemistry laboratory consisting of 25 professionals. Collaboration with industry and extension personnel is required. Ph.D. in chemistry preferably analytical or food chemistry is required. Salary is competitive. Send resume, brief description of research experience and qualifications to: Dr. B. G. Hudson, Chair, Biotechnology Support Committee, Department of Biology/Molecular Biology, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103. KUMC is an Equal Opportunity/Affirmative Action Employer.

CORNELL UNIVERSITY

DIRECTOR OF ANALYTICAL LABORATORIES, Department of Food Science and Technology in Geneva, New York, seeks a chemist for a 12-month term position to start 1 February 1990. The appointee will be expected to design and conduct a research program in analytical problems associated with food production and agriculture and the goal of elucidating the impact of agricultural and food production practices on health, food safety, and the environment. Will direct the operation of an analytical chemistry laboratory consisting of 25 professionals. Collaboration with industry and extension personnel is required. Ph.D. in chemistry preferably analytical or food chemistry is required. Salary is competitive. Send resume, brief description of research experience and qualifications to: Dr. B. G. Hudson, Chair, Biotechnology Support Committee, Department of Biology/Molecular Biology, University of Kansas Medical Center, 39th and Rainbow Boulevard, Kansas City, KS 66103. KUMC is an Equal Opportunity/Affirmative Action Employer.
PROTEIN CHEMIST - BIOCHEMIST

Merck & Co., Inc., the world leader in medical research, is offering two excellent career opportunities for scientists with a background in protein chemistry.

Position #1 - A B.S. or M.S. in biochemistry, chemistry, biology or the equivalent with 1-2 years laboratory experience involving sequencing of proteins, isolation and purification of proteins by HPLC, modification of proteins and routine amino acid analysis is required. A working knowledge of computers and data handling/analysis is also required.

Position #2 - A B.S. or M.S. in biochemistry, chemistry, biology or the equivalent with 1-2 years experience in protein chemistry and enzymology is required for this position involving the investigation of proteins related to thrombosis and fibrinolysis.

Excellent salary and benefits accompany these positions at our modern research facility 25 miles northwest of Philadelphia, Pennsylvania.

Please send resume with salary requirements to:
PERSONNEL MANAGER, A-29
RESEARCH PERSONNEL W42-2
MERCK SHARP & DOHME RESEARCH LABORATORIES
WEST POINT, PA 19486
EEO/AA/VH/EMPLOYER

Harvard Graduate School of Education

Tenure Position in Teaching and Learning

The Harvard Graduate School of Education seeks to fill a senior position (with tenure) in its Teaching, Curriculum, and Learning Environments Area. The focus of the position is on teaching and learning, with an emphasis on mathematics and/or one of the biological or physical science fields. Candidates are expected to have academic strength within a field of science and/or mathematics as well as a record of creative scholarship in the teaching/learning process associated with this field. Candidates are also expected to have a substantial historical and philosophical understanding of the development of one of these fields as well as approaches to its teaching in the schools.

Among the responsibilities of the position is teaching science/math curriculum and pedagogy courses in Harvard's pre-service and experienced teacher education programs.

Applications or nominations should be received no later than October 15, 1989 and should include curriculum vitae, description of research in progress and two recent articles or monographs.

All materials should be addressed to: Office of Academic Services, Longfellow 122, Harvard Graduate School of Education, Cambridge, MA 02138; Attention: Dr. Vito Perrone, Chair, Search Committee. An affirmative action/equal opportunity employer M/F.
Toxicologist
Industrial Chemicals Hazard Concerns

Lubrizol, an international specialty chemical company, develops additive technology that improves the performance of lubricants, fuels, industrial fluids and processing compounds used in transportation, construction and industrial equipment.

Reporting to the Manager, Product Safety and Toxicology you will write: Review hazard information relating to raw materials, intermediates and products • Identify toxicity data gaps, recommending corrective action • Perform risk assessments • Identify chemicals requiring workplace controls • Communicate the latent hazard information to all personnel in contact with toxic chemicals.

This newly-created, headquarters-based position requires a bachelor's degree in Science and up to 3 years of toxicology experience. Risk assessment background is a plus.

Join a growing international leader in its industry. You will appreciate Lubrizol's highly professional working atmosphere and attractive salary and comprehensive benefits package which this position offers. For prompt, confidential consideration, send your detailed resume to:

Edward R. Miller
Manager of Staffing
The Lubrizol Corporation
29400 Lakeland Blvd.
Wickliffe, OH 44092

An Equal Opportunity Employer M/F/H/V

Career Opportunities in Plant Biology

DeKalb-Pfizer Genetics, a leading agricultural seed company, has several openings in its biotechnology research center located at Pfizer Central Research in Groton, CT. We seek scientists eager to join our multidisciplinary team performing innovative research focused on the in vitro genetic manipulation of maize. You should have an MS or BS degree with experience in one or more of the following areas:

- Molecular biology - gene cloning and expression
- Cell biology - plant cell transformation and/or microinjection
- Tissue culture - suspension culture development and/or monocot somatic embryogenesis

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Qualified applicants should submit their resume and the names, addresses and phone numbers of three professional references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

POSITIONS OPEN
DEPARTMENT CHAIR
DEPARTMENT OF HORTICULTURE
AND LANDSCAPE ARCHITECTURE,
BERKELEY

Major responsibilities include dynamic leadership and effective administration of research, teaching and extension programs. A Ph.D. in horticulture or any closely related area is plus; science or landscape architecture is required. Experience in research, teaching and/or extension is also required. Strong academic, administrative, organizational, budgetary and communication skills are required. The candidate should have proven ability to attract extramural funding, a record of scholarly excellence and must be eligible for tenure at the rank of full professor. Salary is competitive and commensurate with qualifications and experience. Application deadline: 1 November 1989, or until a suitable candidate is found. The application must include curriculum vita, list of publications, names and addresses of four references and a statement of professional goals. Nominations or applications should be sent to: Professor B. W. Pooviah, Chairman, Search Committee, Department of Horticulture and Landscape Architecture, Washington State University, Pullman, WA 99164–6141.

A W. U. is an Equal Opportunity/Affirmative Action Employer.

SEARCH REOPENED
DIRECTOR, SEISMOGRAPHIC STATIONS
AND PROFESSOR
UNIVERSITY OF CALIFORNIA
AT BERKELEY

The University of California is seeking to fill a tenured faculty position in the field of seismology. Applicants must possess academic and research records of distinction. The successful candidate will act as Director of the Berkeley Seismographic Stations; the directorship includes 50% release time. The University has committed funding for a substantial upgrade of the seismological facilities. Founded in 1887, the Seismographic Stations conduct research programs in seismology and related fields of geophysics, and maintain and disseminate information on seismic activity in northern California.

Nominations or applications with current résumés should be sent by 1 December 1989 to:

Professor Paul A. Witherspoon, Chair
Seismographic Stations Director Search
Office of the Provost for Research
200 California Hall
University of California
Berkeley, CA 94720

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

DOCTORATES, any field considered. Mature attitude, excellent teaching ability, congenial personality, and professional presence necessary. We train you for intensive laboratory instruction of surgeons. Permanent instruction sites in Fort Worth, New York City, West Palm Beach, Chicago (Arlington Heights), Los Angeles (Anaheim), and Seattle. Some travel required. Not a sales position. Beginning salary: $40,000. Write for application information to: Director, Midas Rex Institute, 2929 Race Street, Fort Worth, TX 76111. New applicants only, please.

ENDOCRINOLOGIST: Department of Comparative Medicine tenure-track position available. Requirements include a solid publication record, evidence of independent research, interest in collaborative research, and ability to supervise a core laboratory. Research opportunities include monkey models of atherosclerosis and risk factors, reproductive function and behavior. Rank and salary commensurate with experience. Contact: Jay Kaplan, Ph.D., Department of Comparative Medicine, Bowman Gray School of Medicine, Wake Forest University, 500 South Hawthorne Road, Winston-Salem, NC 27103. Telephone: 919-764-3600. An Equal Opportunity/Affirmative Action Employer.

EXECUTIVE DIRECTOR
The Seawick Research Program, a non-profit ecological research group. Responsibilities include intergovernmental relations and program and financial development. Ph.D. and prior administrative experience preferred. Salary commensurate with accomplishments. Housing provided on Wildlife Refuge. Direct inquiries to: Search Committee, Seawick Foundation Inc., P.O. Box 31, Islip, NY 11751.
Senior Scientist & Associate Scientist

As a member of our New Technology Group, your achievements will always be recognized.

That’s because you’ll be working in a small team environment with other skilled scientists who are highly dedicated to developing new technology. You’ll only find an environment as challenging and encouraging as this at Ortho Diagnostic Systems Inc., a Johnson & Johnson Company known globally for developing and manufacturing medical diagnostics, reagents, immunological and related products.

Working as a Senior Scientist or Associate Scientist, you will participate in developing diagnostic technology and immunodiagnostic assays applicable to automated equipment used in blood banks, donor centers, hospitals and labs. You will also perform bench level feasibility studies and assay optimization, develop reagents and immunoassays using new technologies, transfer assays to Pilot Plant and Manufacturing, write specifications, perform raw material testing and train QA/Manufacturing personnel. The Senior Scientist position will also have supervisory responsibility.

The Senior position requires a PhD or MS degree in Biochemistry, Chemistry or Immunology, experience with latex and paramagnetic particles and previous supervisory experience. The Associate position requires a BA in biological science (Medical Technology certification an added benefit). Both positions demand 2-4 years of industrial experience in immunodiagnostics, as well as experience with chemiluminescent and fluorescent enzyme immunoassay and biohazardous materials (HIV, HBV etc.).

Our Raritan, NJ headquarters is conveniently located within an hour’s drive of New York and Philadelphia. We offer excellent salaries and a comprehensive benefits package that includes a dental plan, tuition reimbursement and an on-site Wellness Center. To join a scientific team that’s working toward great discoveries, send your resume to: Human Resources Dept. MN.

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a Johnson & Johnson company
Box B, Raritan, NJ 08869
We Are An Affirmative Action/Equal Opportunity Employer M/F/H/V.

Vanderbilt University
Stevenson Professorship of Molecular Biology

The Department of Molecular Biology invites applications and nominations for the Stevenson Professor of Molecular Biology, a new chair endowed by the generous bequest of Eldon Stevenson. We seek an individual with an outstanding record of accomplishment whose research interests are in the general area of cellular, molecular, and/or developmental biology. We are particularly interested in candidates whose research encompasses both structural and functional problems as studied by molecular techniques.

Substantial start-up funds and space on a new research floor will be available. Preference will be given to candidates who apply before November 1, 1989. Applicants should submit a curriculum vitae and a description of research interests and future plans. Names and addresses of references may be included but are not necessary at this time. Please send nominations, applications and inquiries to: Dr. Oscar Touster, Chairman, Department of Molecular Biology, Box 6076, Station B, Vanderbilt University, Nashville, TN 37235.

Women and minority scientists are urged to apply. An Equal Opportunity/Affirmative Action Employer.

RESEARCH SCIENTISTS
PROTEIN MODELING

Amgen is a leading biotechnology company which discovers and develops human therapeutics utilizing recombinant DNA and molecular biology technology.

The Protein Modeling Group will be responsible for establishing a program to study structure/function relationships of protein therapeutics. The program will include coordinating cooperative projects to determine the crystal structures of proteins and their receptors, modeling the interaction of peptides and their receptors, designing improved peptide analogs and working with other research groups in solving problems related to protein stability, solubility and specificity.

Candidates should have a Ph.D. in Biochemistry, Physical Chemistry or a related discipline. A minimum of three years’ postdoctoral experience in computer-based protein modeling and design or in other aspects of protein structure/function is also required.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to the development of significant new human pharmaceuticals on the cutting edge of biotechnology. If you have the necessary qualifications and would like to be a part of a company that places a high priority on its human resources, please send a c.v., in confidence, to:

AMGEN, INC.
Recruitment, Dept. #407
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer
**CELLULAR IMMUNOLOGIST**

With a staff of over 650, Southern Research Institute is an independent research organization engaged in state-of-the-art, interdisciplinary research in diversified areas such as cancer and viral disease cause and prevention, preclinical drug development and evaluation, environmental sciences, and aerospace materials research.

We are seeking a Cellular Immunologist to join our research team which is currently conducting studies in tumor biology, biological response modifiers, novel biological agents, and developmental chemotherapeutic agents. Expansion of efforts into immune function analysis as it applies to tumor immunology and immunotoxicology is currently underway. Facilities are equipped to accommodate both *in vitro* and *in vivo* studies. The position requires a Ph.D. in Immunology and one to three years of postdoctoral experience in cellular immunology, immunobiology, cancer immunotherapeutics, immunotoxicology or cancer drug development. Candidates must demonstrate potential for development of projects in relevant areas and contribute to ongoing projects requiring immunology. The successful candidate will work within a multidisciplinary environment in cooperation with investigators in cell biology, biochemistry, toxicology, and experimental therapeutics.

The Birmingham metropolitan area, with a population of approximately one million, offers a mild, seasonal climate: abundant educational, recreational and cultural opportunities; below average living costs and taxes, and a variety of convenient and attractive housing alternatives. To apply, send a c.v. to Mr. Tracy E. Higgins, Dept.423, Southern Research Institute, P. O. Box 58305, Birmingham, AL 35256.

We are an equal opportunity/affirmative action employer.

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**TWO FACULTY POSITIONS AVAILABLE**

**DEPARTMENT OF MARINE SCIENCE UNIVERSITY OF SOUTH FLORIDA**

This rapidly growing program invites applications for one position each in GEOLOGICAL OCEANOGRAPHY and PHYSICAL OCEANOGRAPHY. These are tenure-earning, nine month positions. Senior researchers with well-established programs are preferred. Additionally, preference will be given to candidates for both positions who have expertise in coastal and nearshore processes as well as coastal engineering. Interested candidates should apply before November 15, 1989, although the search will be continued until both positions have been filled. Please send an updated curriculum vitae and names of at least three referees to:

Dr. John Walsh, Chairman Search Committee  
Department of Marine Science  
University of South Florida  
St. Petersburg, FL 33701

The Department of Marine Science has been designated as a Center of Excellence in the Florida State University System. In addition, the Department has expanded in conjunction with the recent creation of the U.S. Geological Survey's new center for Coastal Geology and Regional Studies (10 geoscientists/25 staff) located on campus. The Department has 27 faculty lines (30 support staff; 100 graduate students) including the St. Petersburg Progress Endowed Chair formerly held by Robert M. Garrels. The University of South Florida is an equal opportunity employer.

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**DEAN**

**College of Science**

**The University of Texas at Arlington**

The University of Texas at Arlington invites applicants and nominations for Dean of the College of Science. UTA is a major university (enrollment: 24,000) located in the center of the Dallas/Ft. Worth metropolitan area (three million population). The university is a member of the University Research Associates consortium. The College of Science consists of the departments of Biology, Chemistry, Geology, Mathematics, Physics, and Psychology and offers a wide range of bachelor's, masters and doctoral degrees. The college currently has 120 faculty, 550 graduate students and 2150 undergraduates.

Applicants should have an earned doctorate and credentials suitable for a tenured faculty appointment in one of the departments in the college. The successful applicant will be expected to lead a strong research and educational program, and should possess exceptional qualities of leadership and technical strength as well as demonstrated communication and managerial skills. The new dean should be prepared for a unique opportunity to lead a significant expansion in personnel and facilities due to the needs of the rapidly developing North Texas area, including the anticipated establishment of the nearby superconducting supercollider. Inquiries and letters of application, accompanied by a curriculum vita, should be sent to:

Prof. Robert Mitchell  
Dean of Science Search Committee  
Box 19016  
University of Texas at Arlington  
Arlington Texas 76019  

Applications received by Nov. 15, 1989 will receive first consideration for on-campus interviews. The anticipated starting date is September 1, 1990. The University of Texas at Arlington is an Equal Opportunity/Affirmative Action Employer.

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**NATIONAL INSTITUTE ON DEAFNESS AND OTHER COMMUNICATION DISORDERS**

**National Institutes of Health (NIH)**

Public Health Service (PHS)

Has an immediate opening for a

NIH STAFF FELLOWSHIP OR NIH VISITING FELLOWSHIP PARTICIPANT

The Laboratory of Molecular Otology (LMO), National Institute on Deafness and Other Communication Disorders (NIDCD), NIH, PHS invites applications for a NIH Staff Fellowship or NIH Visiting Fellowship position. This postdoctoral position is available to join an ongoing study of the molecular biology, biochemistry and pharmacology of excitatory amino acid receptors. Candidates with experience in: i) molecular biology, or ii) Xenopus oocyte physiology or mammalian cell expression are preferred. For the NIH Staff Fellowship program, candidates must be U.S. citizens or resident aliens and must either have been awarded their doctoral degree in biology or a related science, or have been certified by a university as meeting all the requirements leading to a doctorate. Relevant years of postdoctoral research experience range from less than 3 years to a maximum of 7 years with salary from $24,000 to $52,825 per year. For the NIH Visiting Program, candidates may be resident or nonresident aliens, and must have a doctoral degree, or its equivalent, in a health science field. Salary is commensurate with experience ranging from $20,000 to $44,900 per year. The position is located in Bethesda, Maryland. For position information and qualifications requirements, candidates may call Ms. Janet Glagett, Personnel Management Specialist, on (301) 496-6334. Interested candidates should send a curriculum vitae, a brief statement of research interest and three (3) letters of reference to:

Dr. Robert J. Wenthol  
Division of Intramural Research  
Laboratory of Molecular Otology  
National Institutes of Health  
Building 36, Room 5D08  
9000 Rockville Pike  
Bethesda, Maryland 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
Agricultural Research

Discover The Advantages Of Working For An Industry Leader

CIBA-GEIGY's Agricultural Division, a leader in genetic engineering, crop improvement and crop protection chemicals, is now seeking qualified applicants for positions that begin in the Spring of 1990. Located at our facility in Research Triangle Park, NC, these opportunities offer a supportive, stimulating environment in which to further your career goals.

Post Doctoral Associates

We're expanding our research program in Biotechnology, which has created a need for Postdoctoral Associates in Biochemistry, Microbiology, Plant Tissue Culture, and Plant Molecular Biology. Qualified candidates will be invited to propose their own research projects in either basic research or technical areas. Individuals with plant molecular biology training or experience in Arabidopsis genetics, cell biology or tissue culture are encouraged to apply.

Scientists

As a leader in agricultural biotechnology, CIBA-GEIGY is offering qualified individuals the following important research opportunities:

Plant Tissue Culture
You will conduct research in plant genetic engineering and crop improvement. A BS/MS in Botany or Crop Science is required and your background should include plant physiology, cell biology and/or genetics.

Plant Molecular Biology
You will make contributions to programs involved with improving major crop plants through molecular genetic manipulation. A BS/MS in Molecular Biology, Botany, Cell Biology, Plant Physiology or Genetic Science is required.

Biochemistry
You'll be involved with projects dealing with insect resistance in plants, and will help develop insect bioassays and assays to identify potentially insecticidal materials in plants. Familiarity with insect molecular physiology and molecular biology is required. A BS/MS in Biochemistry or Molecular Biology is necessary.

CIBA-GEIGY offers outstanding career advancement opportunities along with competitive salaries and generous company-paid benefits. Please send resume indicating position of interest, with three letters of professional reference, in confidence, to: Dr. Mary-Dell Chilton, CIBA-GEIGY Corporation, 3054 Cornwallis Road, Research Triangle Park, NC 27709. We Are An Equal Opportunity Employer M/F/H/V.

Schering Scientists

If impacting on breakthroughs in biotechnology is what you have in mind, come to Schering-Plough.

We're a growing $3-billion pharmaceuticals innovator recognized worldwide for our dedication to discovery. Outstanding opportunities exist in our Genetic Technology Development group to work on challenging projects involving lymphokine factors, regulation of secondary metabolites, and molecular evaluation of enzymes in biotransformations.

Senior Scientists (2)
Requires a PhD in Microbiology or Molecular Biology, or related science degree with 0-3 years' experience in a postdoctoral study or industrial gene expression group. Good communications skills necessary to interact with department staff, supervise bench scientists and act as liaison with other departments. Must have background in experimental protocols design and productive independent research involving expression of heterologous protein in prokaryotes and low eucaryotes.

Associate/Assistant Scientist
Requires a BS/MS in Microbiology/Biochemistry or Molecular Biology, and 0-2 years' experience in an academic or industrial research setting. Must be familiar with modern Molecular Biology/Biochemical procedures necessary to conduct research in gene cloning and enzyme analysis. Good understanding of microbial physiology essential.

We offer a generous salary and benefits package and a corporate culture that fosters professional growth and satisfaction. For prompt, confidential consideration, send your resume to: Mr. M. Urdanick, Schering-Plough Corporation, 1011 Morris Avenue, Union, NJ 07083. An equal opportunity employer.

What you have in mind, we put in action.
POSITIONS OPEN

ECOLOGIST

The Department of Biology at the University of Rochester invites applications for a tenure-track position in behavioral, population, and community ecology. Although the appointment is likely to be made at the level of assistant professor, applications from outstanding senior-level candidates are encouraged. The successful candidate will be expected to develop an excellent research program and exhibit a commitment to high-quality undergraduate and graduate level education. Postdoctoral experience is preferred. Send curriculum vitae, a statement of research interests, and three letters of recommendation by 30 November 1989 to: John Jaenike, Ecology Search Committee, Department of Biology, University of Rochester, Rochester, NY 14627.

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

FACULTY POSITIONS
SECTION OF IMMUNOBIOLOGY

YALE UNIVERSITY

The Section of Immunobiology, a multidisciplinary group working collaboratively on basic problems of T cell development, regulation of antigen expression, and epithelial apical-mesenchymal interactions in development, the molecular biology of chordogenesis, skeletal pattern formation and development, transport of ion and small molecular moieties in the gut, neuromotor functions of orofacial function, cellular and molecular biology of regeneration, and the control of leukocyte metabolism and secretion, is searching for faculty appointees in the areas of T cell development, regulation of gene expression, signal transduction, and protein traffic in cells of the immune system. We are especially interested in people active in the areas of T cell development, regulation of gene expression, signal transduction, and protein traffic in cells of the immune system. We are especially interested in individuals who have broad research interests in molecular biology and biochemistry. Preference will be given to persons utilizing viral or mammalian systems with expertise in the processing and regulation of nucleic acid synthesis at the posttranscriptional level. Responsibilities will include direction of an independent research program, teaching at the undergraduate and graduate level, and the possibility of eventually assuming a leadership role in the department. Candidates should send a detailed curriculum vitae, names of four individuals who may be contacted for reference, and a summary of current research interests to: Dr. Richard Flavell, Chairman, Section of Immunobiology, Yale University School of Medicine, 310 Cedar Street, 424 FMB, P.O. Box 3333, New Haven, CT 66510. An Equal Opportunity/Affirmative Action Employer. Women and minority candidates are encouraged to apply.

FACULTY POSITION
UNIVERSITY OF CONNECTICUT HEALTH CENTER

Applications are invited for a tenure-track faculty position in the Department of Biostructure and Function. Responsibilities will include teaching of dental, medical and graduate students, student advising, research, and participation in enhancing a strong graduate research training program. The position is available at any level. Applicants must have a research doctorate, should be committed to a career in teaching, and have a strong research program in which excellence and independence have been demonstrated.

Current interests in the Department include macromolecular structure and function, epithelial-mesenchymal interactions in development, the molecular biology of chordogenesis, skeletal pattern formation and development, transport of ion and small molecular moieties in the gut, neuromotor functions of orofacial function, cellular and molecular biology of regeneration, and the control of leukocyte metabolism and secretion, and mechanisms of cellular attachment and aggregation during development.

Applications containing curriculum vitae, a list of publications, three representative publications, a description of research interests, and three named references should be sent to: Dr. Marvin L. Tanner, Head, Department of Biostructure and Function, University of Connecticut Health Center, Farmington, CT 06032. Closing date for applications is 31 December 1989. An Affirmative Action/Equal Opportunity Employer. M/W/H.

UNIVERSITY OF CALIFORNIA
DEPARTMENT OF BIOCHEMISTRY

FACULTY POSITION IN MOLECULAR BIOLOGY

The Department of Biochemistry at the University of California, Riverside, invites applications for a tenure-track appointment at the level of professor, associate professor, or assistant professor. The appointment is to be a joint appointment in the Agricultural Experiment Station. Candidates should have broad training and research interests in molecular biology and biochemistry. Preference will be given to persons utilizing viral or mammalian systems with expertise in the processing and regulation of nucleic acid synthesis at the posttranscriptional level. Responsibilities will include direction of an independent research program, teaching at the undergraduate and graduate level, and the possibility of eventually assuming a leadership role in the department. Candidates should send a detailed curriculum vitae, names of four individuals who may be contacted for reference, and a summary of current research interests to: Dr. Bruce M. Beutler, Chairman, Department of Biochemistry, University of California, Riverside, CA 92521-0457. Closing date 1 August 1990.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified candidates, minors and women are encouraged to apply.

FACULTY POSITION IN ORGANIC CHEMISTRY

University of Wisconsin-Madison. Applications are invited for this position which will become available 1 July 1990. All research areas in organic chemistry will receive consideration; candidates with postdoctoral experience at the assistant professor level; however, applications at all levels will be considered. Candidates with outstanding potential and commitment to excellence in both teaching and research are sought to join a faculty with a strong tradition of research in organic chemistry. Junior candidates in bio-organic chemistry, natural products synthesis or area of biochemistry will be considered for appointment as the Caldwell Fellow. In addition to normal set-up costs, the Caldwell Fellow will receive a $40,000 per year salary for the three years. Applicants should submit curriculum vitae, transcripts, a list of publications and a detailed statement of research plans and teaching objectives to: Organic Chemicals Committee, c/o Professor J. H. Espenson, Chemistry Department, Iowa State University, Ames, IA 50011. Junior applicants also should arrange for at least three letters of recommendation to be sent. Evaluation of applications will begin 15 October 1989. Women and minority applicants are encouraged to apply. Iowa State University is an Affirmative Action/Equal Opportunity Employer.

The Department of Cell Biology and the Center for Reproductive Biology Research at Vanderbilt University are seeking candidates for FACULTY POSITIONS at the assistant professor level. The appointment could be expected to develop an active and distinctive research program in one of the following areas of investigation: regulation of gene expression in reproductive tissues, cell or developmental biology of the male reproductive tract, and molecular biology of fertilization. Interested persons should send curriculum vitae and the names of three references to: M.-C. Orgebin-Crist, Ph.D., Director, Center for Reproductive Biology Research, Vanderbilt School of Medicine, Room D-2303 MCN, Nashville, TN 37232-2633. Vanderbilt is an Equal Opportunity/Affirmative Action Employer.

Harvard University: The Department of Psychology is searching for candidates for an appointment to a FULL PROFESSORSHIP in the field of personality and psychopathology. The successful candidate will be expected to develop a productive research program in personality psychology and to participate in psychology graduate education. A Ph.D. is required. Preference will be given to individuals whose research interests are closely related to those of the department. Candidates are invited to send a curriculum vitae, the names and addresses of three referees to: Jerome Kagan, Chairman, Department of Psychology, Harvard University, 38 Kirkland Street, Cambridge, MA 02138. The closing date is 15 November 1989. Applications from women and minority candidates are especially welcome. Harvard University is an Equal Opportunity/Affirmative Action Employer.

The Department of Biology at the University of California, San Diego invites applications for one tenure-track position at the assistant professor level. We are seeking outstanding candidates in three main fields: (i) mammalian molecular biology/animal virology or related areas; (ii) cellular biology with emphasis in one or more of the following subdisciplines: protein sorting, signal transduction, cell-cell interactions, extracellular matrix or cell motility; (iii) developmental genetics. Ph.D. and several years of postdoctoral experience are required.

We will consider exceptional applicants in all areas of cellular biology, developmental genetics, mammalian molecular biology, and animal virology. We strongly encourage applications from women and minority groups.

Salary will be commensurate with level of appointment and based on the published UC salary scale. The successful candidate is expected to develop a vigorous research program in one of the rapidly moving areas mentioned above, and participate in undergraduate and graduate teaching.

Please submit curriculum vitae, a statement of present and future research goals, and names of three references by 31 October 1989 to: Search Committee, Department of Biology, B-046, University of California, San Diego, La Jolla, CA 92039. The University of California, San Diego is an Equal Opportunity/Affirmative Action Employer.

INVERTEBRATE PALEONTOLOGIST
SMITHSONIAN INSTITUTION

NATIONAL MUSEUM OF NATURAL HISTORY

The Department of Paleobiology seeks an Associate Curator or Curator with a research specialty in one of three fields: echinoderms, mollusks, or trilobites. Candidates having a Ph.D. or equivalent experience with a background in geology, zoology, or both will be considered. Preference will be given to those demonstrating evidence of excellence and a continuing commitment to the vigorous and innovative program of research that uses data from fossil specimens to approach questions of broad paleobiological significance. In addition to research duties, candidates will be expected to participate in the oversight of the improvement and expansion of collections and participation in museum activities such as exhibitions and education. Salary range is from GS-11 ($28,852) to GS-14 ($63,172) depending on qualifications.

Applicants must send Form SF 171 (Personal Qualifications Statement), curriculum vitae, and the names of three references (to be sent by the referee directly to the address below), all to be received by 17 November 1989, at:

Smithsonian Institution
Office of Personnel Administration
Branch 1 (Attention: MPA #9-1125)
P.O. Box 23762
Washington, DC 20026-3762

The Smithsonian Institution is an Equal Opportunity Employer. U.S. citizenship is required.

MICROBIOLOGIST: The Biology Department of Albion College is seeking a broadly-trained microbiologist with experience in such areas as bacterial, immunology, or environmental microbiology to fill a tenure-track position as assistant professor to begin in August, 1990. A Ph.D. is required. Preference is given to those with experience in teaching. The successful candidate will be expected to teach an upper level, undergraduate course in general microbiology. The successful candidate will share major teaching responsibilities in introductory biology courses. Modern facilities include TEM, SEM, an incubator-shaker, controlled environment chambers, and a 130-acre nature center. A research program involving undergraduate students is expected. Albion College encourages applications from women and minority candidates. Send letter of application, current curriculum vitae, transcripts, and three letters of reference to: Dr. Jeffrey C. Carrier, Chair, Biology Department, Albion College, Albion, MI 48401. Deadline for applications is 15 November 1989. Albion College is an Equal Opportunity Employer.

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SCIENCE, VOL. 245
Research Opportunities for Medical Students

1990-91 Academic Year

Research Scholars at the National Institutes of Health

Under this joint HHMI-NIH program, medical students in the United States spend an intensive year in research at the NIH in Bethesda, Maryland. Residence is provided at the Cloister on the NIH campus. Deadline for applications: January 16, 1990.

Medical Student Research Training Fellowships

Medical students in the United States spend a year doing fundamental research full time in laboratories of their choice. Deadline for applications: November 8, 1989.

For Program Announcements and Applications

Research Scholars Program
Howard Hughes Medical Institute
1 Cloister Court
Bethesda, MD 20814-1460
Telephone (301) 951-6710 or (800) 334-6301

or

Medical Student Research Training Fellowships
Howard Hughes Medical Institute
Office of Grants and Special Programs
6701 Rockledge Drive
Bethesda, MD 20817
Telephone (301) 571-0324

Awards will be announced by early April, 1990

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
DOCTORAL FELLOWSHIPS IN BIOLOGICAL SCIENCES

1990 Competition

Fellowships are for full-time study toward the Ph.D. or Sc.D. degree in cell biology and regulation, genetics, immunology, neuroscience, and structural biology.

Fellowship Terms

Three-year initial awards
Two-year extensions possible
$12,900 annual stipend, effective June 1990
$11,700 annual cost-of-education allowance, effective June 1990

Eligibility

Less than one year of postbaccalaureate graduate study in biology
College seniors
First year graduate students
M.D., D.O., D.D.S., D.V.M. students or professionals
If in M.D./Ph.D. program
Less than one year equivalent of tuition support
No citizenship requirements
U.S. citizens may study abroad
Others must study in the United States

Schedule

Application deadline: November 9, 1989
Awards announced: Early April 1990
Fellowships starts: June 1990 — January 1991

NOTE: Fellowships are highly competitive. In 1989 more than 1,000 applications were reviewed to select 60 fellows.

For Program Announcements, Eligibility Guidelines, and Applications

Hughes Doctoral Fellowships
National Research Council Fellowship Office
2101 Constitution Avenue, NW
Washington, DC 20418
United States of America
Telephone (202) 334-2872

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
POSTDOCTORAL RESEARCH FELLOWSHIPS FOR PHYSICIANS

1990 Competition

Fellowships are for full-time training in fundamental research on basic biological processes and disease mechanisms.

**Fellowship Terms**

- 3 years of support
- $35,000-$50,000 stipend
- $15,000 research allowance
- $12,000 institutional allowance

**Eligibility**

- M.D., M.D./Ph.D., D.O.
- At the start of the fellowship
  - at least two years of clinical training and
  - no more than three years of research training
- No citizenship requirements

**Schedule**

- Application deadline: March 1, 1990
- Awards announced: October 1990
- Fellowships start: January 1991 — July 1992

**For Program Announcements and Applications**

Howard Hughes Medical Institute
Office of Grants and Special Programs
6701 Rockledge Drive
Bethesda, MD 20817
United States of America
Telephone (301) 571-0324

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
HEAD OF THE MICROBIOLOGY DEPARTMENT AT THE UNIVERSITY OF ILLINOIS

The Microbiology Department in the School of Life Sciences of the University of Illinois at Champaign-Urbana is seeking applicants or nominations for the position of head of the Department of Microbiology. The successful candidate will have a strong record of excellence in research, teaching, and administration. The candidate will be expected to develop and implement a research program in an area of expertise such as molecular biology, biotechnology, or immunology.

Molecular Immunologist

American Biogenetic Sciences, Inc., a rapidly growing biopharmaceutical company located on the campus of the University of Notre Dame, Notre Dame, Indiana, invites applicants for a senior staff scientist position as a molecular immunologist in its vaccine project. The successful candidate will be expected to direct the evaluation and characterization of T and B cell immunogenic peptides for vaccine development. Qualifications include a Ph.D. in immunology, postdoctoral experience, and a strong commitment to performing research and applying for support from funding agencies. Please send application, curriculum vitae, and a list of references to: Dr. C. F. W., Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061.

MOLECULAR Virologist

The Department of Biology at Virginia Polytechnic Institute and State University invites applications for a tenure-track faculty position in virology. The successful candidate is expected to begin August 1990. Responsibilities include teaching a one-semester senior course in virology and a one-semester junior molecular techniques laboratory, participating in a graduate virology course, taking an active role as the departmental representative in a university-wide biotechnology option for undergraduate majors, and developing a research program in an area of individual's specific interest. A letter of application, curriculum vitae, statement of professional goals, and names of three references should be sent by 30 November 1989. All correspondence should be directed to: Dr. Charles L. Rutherford, Chairman of the Search Committee, Department of Biology, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061.

Virginia Polytechnic Institute and State University is an Equal Opportunity/Affirmative Action Employer.

NEUROBIOLOGY TENURE-TRACK POSITIONS

The Department of Biology, University of Iowa, invites applications for two tenure-track faculty positions to expand the existing neurobiology program. The rank for both positions is expected to be assistant professor. One of the positions will be filled by a cellular neurophysiologist who uses biophysical techniques. The other position will be for a developmental neurobiologist who uses cellular or molecular techniques. Postdoctoral experience is required. In addition to establishing a strong research program, the successful applicant will be expected to participate in undergraduate and graduate teaching. The opportunity exists to participate in existing NIH program grant projects. Applications will be considered until positions are filled. Send curriculum vitae, brief description of research goals and relevant publications, and arrange to have three letters of recommendation sent to: Dr. Robert Switzer, Search Committee, Department of Biology, University of Iowa, Iowa City, IA 52242. We strongly recommend applications from women and minorities. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

LIPID BIOCHEMIST

NUTRITION AND CANCER

The Research Group in Nutrition and Cancer seeks a candidate with Ph.D. or M.D. degree trained in lipid chemistry with a strong research interest in the role of lipids in carcinogenesis or cancer regulation. The available research areas include analytical lipid chemistry, including gas chromatography, HPLC, and mass spectrometry. The candidate is expected to develop his/her own research program and to collaborate with ongoing group projects. The candidate will be eligible for academic positions at Université de Montréal. An institutional salary support will be available for an initial 3-year period but the candidate is expected to obtain support from funding agencies. Please send application, curriculum vitae, and names of three references to:

Dr. Marie-Claire Michoud
Acting Director
Research Centre
Hôpital-Dieu de Montréal
3840, rue St-Urbain
Montréal, Québec
Canada H2W 1T8

MASS SPECTROMETRIST

The Biomedical Chemistry and the University of Cincinnati seeks a mass spectrometrist with a Ph.D. degree in chemistry or a related field. The successful candidate should be able to perform high-resolution mass spectrometry in support of a variety of research projects. Responsibilities include performing mass spectrometry experiments and analyzing data. The ideal candidate should have experience with quadrupole and/or quadrupole ion trap mass spectrometers. Salary is negotiable depending on qualifications and experience. The University of Cincinnati is an Equal Opportunity/Affirmative Action Employer.

Position Open

MOLECULAR GENETICIST to establish a new laboratory in our Department of Genetics. The successful candidate should be expected to develop an independent research program and will have opportunities to collaborate in ongoing research involving human sub- jects and nonhuman primates and 1200 marsupials. Major projects in- volve comparative gene mapping, genetic/dietary interactions, and effects of radiation on genes. This is an exciting opportunity for a creative scientist in a young expanding department. Salary and rank will be commensurate with experience. Please mail resume and names of three references to: Personnel Director (15), South- western Research Institute, P.O. Box 28147, San Antonio, TX 78284. Equal Opportunity Employer M/F.

LIPID BIOCHEMIST

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Dr. Marie-Claire Michoud
Acting Director
Research Centre
Hôpital-Dieu de Montréal
3840, rue St-Urbain
Montréal, Québec
Canada H2W 1T8

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MOLECULAR IMMUNOLOGIST

American Biogenetic Sciences Incorporated, a rapidly growing biopharmaceutical company located on the campus of the University of Notre Dame, Notre Dame, Indiana, invites applicants for a senior staff scientist position as a molecular immunologist in its vaccine project. The successful candidate is expected to direct the evaluation and characterization of T and B cell immunogenic peptides for vaccine development. Qualifications include a Ph.D. in immunology, postdoctoral experience, and a strong commitment to performing research and applying for support from funding agencies. Please send application, curriculum vitae, and a list of references to: Dr. Robert Switzer, Head Search Committee, Department of Microbiology, 131 Burrill Hall, 407 South University Avenue, Urbana, Ill. 61801. Telephone: 217-333-1142. Applications should be received by 15 December 1989. Some interviews may be held before the closing date but all applications arriving by 15 December 1989 will receive full consideration. Salary is negotiable depending on qualifications and experience. Preferred starting date is 1 August 1990. The University of Illinois is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minority candidates.
SIMON FRASER UNIVERSITY
DEPARTMENT OF BIOLOGICAL SCIENCES

Applications are invited for two tenure-track positions at the Assistant Professor level, one in CELL BIOLOGY, the other in MICROBIOLOGY. The successful candidates will participate in undergraduate teaching and graduate training in their respective disciplines, and establish independent and vigorous research programs. The appointments are subject to final budget approval.

Applicants should clearly state for which position they are applying. They should submit their curriculum vitae, representative recent publications, a statement of their research interests, and have three letters of reference sent to:

Dr. L.M. Srivastava, Chair
Department of Biological Sciences
Simon Fraser University
Burnaby, B.C. Canada
V5A 1S6

Simon Fraser University offers equal employment opportunities for men and women. All qualified scientists are encouraged to apply. Canadian immigration law requires that this advertisement be directed in the first instance to people who are eligible for employment in Canada at the time of application.

CLOSING DATE: NOVEMBER 15, 1989

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Research Biochemical Pharmacologist

DuPont Medical Products Department has an immediate opening for an individual in Cancer Chemotherapy Research to join a team of medicinal chemists, biochemists and biologists to develop novel anticancer agents. Scientists who have recently received their Ph.D. in biochemical Pharmacology or a related area are invited to apply. One to two years of postdoctoral experience is desirable. Candidates should have training in DNA biochemistry and working experience in the study of the interaction of small molecule with DNA, or in DNA repair.

At the world renowned DuPont Company, you’ll find a highly stimulating scientific environment in a modern research facility in Glenolden, PA. We provide excellent compensation and benefits including relocation. Our facility is located in a suburb of Philadelphia; its location offers an attractive lifestyle with easy access to affordable housing and a wide range of academic, cultural and recreational activities. Interested candidates should send their resumes and three letters of recommendation to: Professional Staffing, Employee Relations Department, Room X-51761, DuPont Company, Wilmington, DE 19898.

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SENIOR LEVEL SCIENTISTS

Join The Team Whose “TEAM SPIRIT” Has Helped Make Us A Success

BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., located in DANBURY, CT, is a major contributor of ethical pharmaceuticals and consumer products to the health care community.

BIOANALYTICAL AND PHARMACEUTICAL FORMULATION CHEMIST

A lead Senior Level Scientist is needed to develop analytical methods for proteins and peptides to support preformulation studies. The candidate we select will carry out the physical and chemical characterization for proteins and peptides with the goal of developing stable pharmaceutical formulations.

Requirements: Ph.D. in Analytical Chemistry, Physical Biochemistry or Physical Chemistry. Special consideration will be given to those candidates with experience in proteins or peptides and chromatography. RESPOND TO BOX MH-965-15.

LABORATORY SUPERVISOR, R&D MANUFACTURING & TESTING

The successful candidate will be responsible for the supervision of scientists and technicians as well as the day-to-day planning, development and operation of a testing laboratory at our Research Center. The individual selected will participate in the development/validation of testing methodology, solve formulation-related physical-chemical problems and establish a research program which contributes to the development of new drug products.

Requirements include: MS/Ph.D. Degree in Analytical/Bioanalytical Chemistry with relevant experience in the evaluation of clinical and pre-clinical drug products. A thorough understanding of drug product testing techniques and analytical chemistry concepts is essential. RESPOND TO BOX MH-965-15.

We offer a generous compensation/benefits package which includes relocation assistance and a company matched investment savings plan. Please send your resume and salary requirements to stated Department Code, R&D, BOEHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, PO. Box 368, Ridgefield, CT 06877. Equal opportunity employer m/f/h/v.

Boehringer Ingelheim
ASSOCIATE DIRECTOR
International Regulatory Affairs
(Animal Science Research)

The Animal Science Regulatory Affairs Department of Merck Sharp & Dohme Research Laboratories, is seeking a highly motivated scientist to serve on interdisciplinary project teams with the goal to discover, develop and register new products for animal health. As the representative of Regulatory Affairs to the project team, this scientist is expected to develop and coordinate regulatory strategy. In addition, the successful applicant will have primary responsibility for preparation and submission of documentation for registration, certification and licensing of animal health products world-wide.

The successful applicant will report to the Director of International Regulatory Affairs, Animal Science Research. The position requires a Ph.D and/or D.V.M. Degree with experience in research in biology (biochemistry, molecular biology, microbiology, parasitology, immunology, physiology, toxicology or pharmacology). Previous experience with regulatory agencies and post-Ph.D. experience in animal health is desired. The selected candidate will be highly organized, have excellent interpersonal and written communication skills and a strong interest in interdisciplinary research.

Merck Research Laboratories are located in Woodbridge, New Jersey — approximately 30 miles from New York City. Merck offers a competitive salary and benefits program commensurate with experience. Interested candidates should submit their Curriculum Vitae with the names of three referees and salary requirements to Dolors Barefield, Merck Sharp & Dohme Research Laboratories, P.O. Box 2000, WBD-362, Rahway, New Jersey 07065. An equal opportunity employer.

Director, California Institute For Energy Efficiency

A Director is sought for the California Institute for Energy Efficiency (CIEE). CIEE is a recently established unit of the University of California (UC), administered by LBL, which coordinates a mid-term research program on energy end-use efficiency as a joint effort among UC, the California energy utilities, the California Public Utilities Commission (CUC), the California Energy Commission (CEC), and other State institutions. The Director interacts regularly at staff and management levels within these institutions, convenes a high-level Research Board to establish overall policy and research direction, convenes a Planning Committee to provide technical input to the Board, and works with officials at LBL and UC on administrative matters. Undertakes technology transfer activities. Represents CIEE at technical meetings and reviews, and before government agencies as appropriate. Directs small staff in support of above duties. May have opportunity to establish or participate in an LBL research program.

Scientific or engineering education at the Ph.D. level or equivalent experience is required. Leadership and management experience is required in one or more of the following institutions: universities, government-supported research laboratories, government agencies, energy utilities. Capable of dealing effectively with management and staff of such institutions in a liaison mode. Experience relevant to energy end-use efficiency, and success in technology transfer activities, strongly preferred.

Potential candidates are encouraged to obtain a package of information concerning CIEE by contacting Marina Gonzalez, Employment Manager, Job C-5380, Lawrence Berkeley Laboratory, #1 Cyclotron Road, Mailstop 90/1042, Berkeley, CA 94720. An Equal Opportunity Employer.

LAWRENCE BERKELEY LABORATORY
UNIVERSITY OF CALIFORNIA, SANTA CRUZ
BIOLOGY DEPARTMENT

The department is committed to a significant expansion of resources including two new research buildings to be occupied Fall 1989 and 1992–93, expanding graduate programs and further new faculty positions. Selected candidates will be expected to teach at the undergraduate and graduate level. Applications from women and ethnic minorities are strongly encouraged. Positions are effective Fall 1990.

If you are applying for more than one position, you may submit one application as long as you indicate which position(s) the application is for.

Assistant Professor in Molecular Cell Biology: Applicant will be expected to develop a vigorous externally funded research program that uses molecular approaches to address fundamental problems in the regulation of cell function, growth and development. Seeking a creative scientist without regard to specific area of interest, but applicants investigating retrovirology, cell communication, signal transduction and working on vertebrate systems are especially encouraged to apply. Ph.D. and at least two years postdoctoral experience required. Closing Date: December 1, 1989.

Assistant Professor in Plant Cell/Developmental/Molecular Biology: Applicants should use molecular and biochemical tools to study fundamental problems in plant growth and development. The successful candidate will be expected to develop a vigorous research program. Ph.D. and at least two years of postdoctoral experience required. Closing Date: December 1, 1989.

Associate Professor in Marine Vertebrate Physiological Ecology: Prefer specialization in marine mammals. Applicant must be able to apply modern experimental techniques, develop a strong laboratory-based research program at the Long Marine Laboratory, teach marine mammal and seabird bioenergetics and related courses. Ph.D., demonstrated record of scholarly research and University-level teaching required. Closing Date: October 1, 1989.

Send applications to:
Chair, Search Committee for
Molecular Cell Biologist #173-890
or Plant Cell/Developmental/Molecular Biologist #161-890
or Marine Vertebrate Physiological Ecologist #188-890
Department of Biology
University of California
Santa Cruz, CA 95064

UCSC is an Affirmative Action/Equal Opportunity Employer

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THE LADY DAVIS FELLOWSHIP TRUST
P.O. Box 1255, Jerusalem 91904, Israel

GRADUATE, POST-DOCTORAL AND PROFESSORIAL FELLOWSHIPS AT THE HEBREW UNIVERSITY OF JERUSALEM OR THE TECHNION-ISRAEL INSTITUTE OF TECHNOLOGY, HAIFA FOR 1990-91

APPLICATION INFORMATION: Lady Davis Graduate and Post-Doctoral Fellows are selected on the basis of demonstrated excellence in their studies and promise of distinction in their chosen fields of specialization. Graduate applicants may apply during their senior undergraduate year or after they have undertaken study in a graduate school. Post-doctoral applicants to the Hebrew University may apply not later than 3 years after completion of their doctoral dissertation. The Fellowships are tenable for one academic year and may be extended for another year. The grant covers travel, tuition fees and reasonable living expenses.

VISITING PROFESSORSHIPS are intended for candidates with the rank of Full or Associate Professor at their own institution. They are tenable from one semester to a full academic year. The grant includes a professorial salary and travel.

DEADLINE: November 30, 1989. Requests from applicants (including Israelis) indicating category of Fellowship should be sent to above address.

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PHARMACOLOGIST IMMUNOPHARMACOLOGY

The Immunopharmacology Section of Wyeth-Ayerst Research is currently seeking a Pharmacologist to conduct GLP and non-GLP Ames assays.

This position requires an individual with a background in microbiological techniques and short-term genotoxicity testing. Experience in Microbiology/Ames Testing, familiarity with FDA/GLP regulations, and PC/Mainframe computers required. A B.S. or M.S. degree in the Life Sciences is required.

Wyeth-Ayers is located in Princeton, N.J. and offers an excellent compensation and benefits package. We encourage career growth and promotional opportunities. Candidates who wish to join our research team should forward their resume to:

Personnel Manager, Dept 2784

WYETH-AYERST RESEARCH
CN 8000
Princeton, NJ 08543-8000
Equal Opportunity Employer M/F/H/V
**POSITIONS OPEN**

Faculty positions in MOLECULAR ViroLOGY and YEAST MOLECULAR GENETICS. Tenure-track ASSISTANT PROFESSOR positions in a growing department with research strengths in molecular immunology and pathogenesis. Potential for collaboration with other large research programs in inflammation, oncology, atherosclerosis, and molecular genetics. The successful candidates will be expected to establish an independent research program and participate in the teaching of graduate and medical students. Send curriculum vitae, description of research goals, and names of three references to: Dr. Steven Mielz, Department of Microbiology and Immunology, Bowman Gray School of Medicine of Wake Forest University, Winston-Salem, N.C. 27157. NCSU is an Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGY RESEARCHER—The Hitchcock Clinic, a component of the Dartmouth-Hitchcock Medical Center, has a 1-year postdoctoral position available in the Department of Neurology to work with Dr. Robert Sharp, M.D. Ph.D., in the area of neurodegenerative disease and stroke. Salary $22,000 to $30,000 plus benefits. Send curriculum vitae to: Richard L. Saunders, M.D., Chairman, Dartmouth Hitchcock Medical Center, Hanover, NH 03756. Affirmative Action/Equal Opportunity Employer.

NEUROGENETICS. The Michigan State University Department of Zoology, in cooperation with the Genetics, Neurosciences, and Cell and Molecular Biology Graduate Programs, announces an ASSISTANT PROFESSOR, tenure-track position in Genetics of the Nervous System, to begin 1 September 1990. Teaching responsibilities after the first year will be in introductory genetics and an advanced, specialty course. Development of an active, externally funded research program is expected. The Department is particularly interested in women and minority applicants. Applicants should submit curriculum vitae, a statement of present and future research activities, all reprints, and should have four letters of reference sent to: Neurogenetics Search Committee, Department of Zoology, 260 Natural Science Building, Michigan State University, East Lansing, MI 48824–1115. Submit applications by 1 December 1989. An Affirmative Action/Equal Opportunity Employer.

ORGANIC CHEMIST to synthesize experimental chemicals which are not commercially available, which oftentimes are unknown in the chemical literature and which ultimately require a high degree of analytical purity. Must have a proven record of efficient problem-solving ability in diverse areas of organic synthesis such as heterocyclic and/or organometallic syntheses. Must be able to interact with subordinates of either bachelor's or master's degree level. Minimum requirement, Ph.D. in organic chemistry. Salary, $32,816. Mail applications to: New York State Job Service, Order No. 0140273, 68 West Huron Street, Buffalo, NY 14202. An Equal Opportunity Employer.

**PEDIATRIC INFECTIOUS DISEASE**


**PHARMACOLOGY—MOLECULAR PHARMACOLOGY**

Applications are invited for tenure-track positions at the assistant or associate member level in the Program of Developmental Therapy and Clinical Investigation of the Sloan-Kettering Institute. Candidates with a Ph.D. or M.D. degree who have demonstrated outstanding research capabilities in cancer-related pharmacology will be considered. We are especially interested in candidates with a strong interest in mechanisms of drug action at the molecular level, and with interests in clinical application. Additional areas of research emphasized include mechanisms of drug resistance, proteolytic and drug design, signal transduction and DNA repair. Please send a detailed curriculum vitae and a statement of research interests by 1 November 1989 to: Dr. Joseph R. Bertino, Program Co-Chairman of Developmental Therapy and Clinical Investigation, Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Sloan-Kettering Institute is committed to Equal Opportunity through Affirmative Action and, therefore, members of minority groups are encouraged to apply.

**PHOSPHOLIPID BIOCHEMISTS.** Assistant research biochemist positions available for NIH-funded laboratory investigating phospholipids in heart, liver, and tissue culture cells including purification, characterization, regulatory aspects, effects of inhibitors and metabolism of novel lipidic drug agents. Ph.D. or M.D. with strong background in phospholipid chemistry and biochemistry. Salary commensurate with experience and based on UC Academic Salary Scales. Send curriculum vitae and names/addresses of three references to: Dr. Karl V. Hostetter, Department of Medicine (V-111G), University of California, San Diego, La Jolla CA 92093. Applications received by 6 October 1989 will receive full consideration, but will be accepted after the closing date until all positions are filled. Affirmative Action/Equal Opportunity Employer.

**PLANT NUTRITION: ASSISTANT PROFESSOR**—The Penn State Department of Horticulture invites applications for a tenure-track position starting 1 January 1990. Candidates must possess the Ph.D. in an appropriate plant or soil science program. The successful candidate will be expected to establish a vigorous "state-of-the-art" research program and teach an undergraduate course in plant nutrition. Participation in graduate education is expected. To apply send complete resume, academic transcripts, a brief statement of current and future research interest, and the names and addresses of three references by 1 November 1989 to: J. C. Shannon, Chair of the Search Committee, Department of Horticulture, 403 Agricultural Administration Building, Box H, Penn State University, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Woman and minorities encouraged to apply.

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**NATIONAL INSTITUTE OF NEUROLOGICAL DISORDERS AND STROKE**

National Institutes of Health Public Health Service

has immediate openings for:

**MOLECULAR BIOLOGISTS, BIOCHEMISTS, COMPUTER PROGRAMMERS for a HUMAN GENOME SEQUENCING PROJECT**

 Fellowships available for molecular biologists/biochemists/computer programmers for a human genome sequencing project to sequence chromosomal regions including those implicated in fragile-X syndrome and neurofibromatosis 1. The large scale sequencing project involves automation of cloning, template preparation and sequencing techniques, implementation of robotics, and software development for sequence assembly and analysis.

**Postdoctoral Fellowships Available:** Starting salary will be commensurate with experience.

For IRTA Fellowship: less than 3 years postdoctoral experience, US Citizenship required, $24,000 to $27,000

For Fogarty Fellowship: less than 3 years postdoctoral experience, Non-US Citizen, $20,000 to $23,000

For Staff Fellowship: over 3 years postdoctoral experience, US Citizenship required, $24,000 to $40,000

For Senior Staff Fellowship: over 3 years postdoctoral experience, US Citizenship required, $28,000 to $45,000

For further information and qualifications call:

Janet Claggett, NINDS Personnel Office (301) 496-6334

Applicants should send their curriculum vitae and names of three references to:

J. Craig Venter, Ph.D.

NINDS/NIH

Park Building, Room 405

Bethesda, Maryland 20892

NIH IS AN EQUAL OPPORTUNITY EMPLOYER
Applications are invited for teaching appointments in one of the following Departments:

**ANESTHESIA**
- ICU/Pain Management

**ANATOMY**
- Gross Anatomy
- Embryology/Genetics

**COMMUNITY, OCCUPATIONAL AND FAMILY MEDICINE**
- Community Medicine
- Health Care Management
- Epidemiology (Communicable Diseases)

**DIAGNOSTIC RADIOLOGY**
Experience in Clinical Diagnostic Imaging including Ultrasonography and Computed Tomography. Some experience in Nuclear Medicine and familiarity with Nuclear Magnetic Resonance will be an advantage.

**MEDICINE**
- Cardiology
- Medical Oncology

**MICROBIOLOGY**
- Experience in Electron Microscopy

**OBSTETRICS AND GYNECOLOGY**
- Human Genetics
- Neurology

**PHYSIOLOGY**
Human Physiology—the appointee must be able to teach at undergraduate and postgraduate levels and have at least two years of postdoctoral experience in either of the following areas:
- (a) aspects of cellular and molecular physiology related to the regulation of cell growth and differentiation; and
- (b) mechanism of action of hormones and hormone antagonists

The appointee will also be expected to develop an independent research program in his/her own area of interest.

Candidates must possess an approved basic medical or dental degree with a recognized higher academic/professional qualification or a relevant PhD degree.

Senior Tutorships are also available in the Departments of Anatomy and Community, Occupational and Family Medicine. Candidates applying for Senior Tutorships must possess an approved basic medical/dental degree or a good honors degree in Science. Under the Senior Tutorship Scheme, the appointee will be given an opportunity to pursue a relevant higher qualification, upon receipt of which he will be considered for appointment to a Lectureship.

Gross annual emoluments range as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Senior Tutor</td>
<td>S$129,680 – 44,180</td>
</tr>
<tr>
<td>Lecturer</td>
<td>S$150,390 – 64,200</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>S$158,680 – 100,310</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>S$188,650 – 122,870</td>
</tr>
</tbody>
</table>

(US$1.00 = S$1.94 approximately)

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered.

Appointees with an approved basic medical/dental degree and approved higher academic/professional qualifications will receive a Fixed Specialist Allowance (FSA), the annual rates for which are as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturer</td>
<td>S$6,000/9,000</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>S$15,000</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>S$21,000</td>
</tr>
</tbody>
</table>

In addition, appointees in clinical departments who are designated Consultants by the National University Hospital may retain, in full, professional fees earned during the sessions devoted to private patients which are over and above the annual FSA applicable to them. In the case of appointees designated as Senior Registrars, the professional fees earned will be subject to a maximum of 60% of their annual gross salary. The number of sessions for private patients will be limited to 4 out of 11 sessions in a week.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S$1,000 or S$2,000, subsidized housing at nominal rentals ranging from S$100 to S$216 p.m., education allowance for up to three children subject to a maximum of S$10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

Application forms and further information on terms and conditions of service may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

Inquiries may also be sent through BITNET to: PERSDEPT @ NUSVM, or through Telefax: (65) 7783948
**POSITIONS OPEN**

**PHYSICAL ANTHROPOLOGIST**—The Department of Anthropology and the Doctoral Program in Physical Anthropology, SUNY Stony Brook, seeks a Physical Anthropologist to fill a tenure-track position at the assistant professor level, subject to budgetary approval, beginning September 1990. Ph.D. required. Areas of expertise are open, but we are particularly interested in an individual with teaching and research interests in primate behavioral ecology, primate evolution, or human evolution in the later Pleistocene. Applicants should send curriculum vitae and names of three references by 14 October 1989 to: Chair, Search Committee, Department of Anthropology, State University of New York, Stony Brook, NY 11794-4364. SUNY Stony Brook is an Affirmative Action/Equal Opportunity Educator and Employer. AK#196.

**POSITIONS OPEN**

**POSTDOCTORAL POSITION** available immediately in the biochemistry and molecular biology of lipid metabolism. An opportunity exists for studies on the key lipid biosynthetic enzyme acetyl CoA-carboxylase and related enzymes. The applicant will join an active group of molecular biologists working on lower plant systems, and must have demonstrated experience as an enzymologist. Experience can be with algae, other eukaryotic microorganisms, or plants, but applicant must have interest in working with eukaryotic microalgae with potential for biotechnological exploitation. Reply with curriculum vitae and a list of three references to: Joan S. Kyeskelhals, Biology Department, Reed College, 1617 Cole Boulevard, Golden, CO 80401. An Equal Opportunity Employer. Women and minorities are encouraged to apply.

**POSITIONS OPEN** available fall 1989 to develop new bioassays for studying effects of toxicants on nervous system function (in vivo) and behavior in larval fish. Experience in toxicology and/or fish biology preferred; computer experience desirable. Send curriculum vitae, a letter of interest, and three references to: Joel R. Coats, Department of Entomology, Iowa State University, Ames, Iowa 50011. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

The Department of Nutritional Sciences announces openings for POSTDOCTORAL (M.D. or Ph.D.) and PREDOCTORAL FELLOWS on an NIH training grant in human nutrition. Training is available in diabetes (insulin secretion), perinatology (physiologic and biochemical aspects of intrauterine growth), or gastroenterology (carbohydrate digestion and absorption). Laboratory and clinical facilities are on the Berkeley campus and San Francisco General Hospital. Starting dates can be 1 October 1989, 31 December 1989, or 1 July 1990. The fellowships are limited to U.S. citizens or permanent residents. Apply to: Dr. Norman Kretchmer, Department of Nutritional Sciences, University of California, Berkeley, CA 94720. Telephone: (415) 642-7870. An Affirmative Action/Equal Opportunity Employer.

Position for POSTDOCTORAL HEMATOLOGY RESEARCH FELLOW (M.D. or Ph.D.) interested in gene transfer and gene therapy. Ongoing project in molecular and cellular biology transferring human globin genes in retroviral vectors into mice. Tissue culture and molecular biology techniques currently used will be available to applicant. Previous experience in molecular biology preferred. Opportunity for career advancement. Send resume to: Dr. Arthur Bank, Columbia University, HHHSC 1602, 701 West 168th Street, New York, NY 10032.

**PROTEIN BIOCHEMIST**

EniChem Americas, Inc. a division of an Italian-based major international chemical company has an immediate opening in the Plant Biotechnology Lab at its Research Center near Princeton, New Jersey.

This opening offers a unique opportunity to a Protein Biochemist to join a group of highly motivated scientists developing programs in crop improvement through biotechnology. The candidates we seek should have strong biochemistry background coupled with expertise in studies of protein structure/function, protein turnover, and post-translational modifications. There will be opportunities to apply this expertise to both recombinant and non-recombinant proteins. A Ph.D. and at least 2 years of relevant experience are required. Some industrial experience and familiarity with plant research are desirable but not essential.

Successful candidates will enjoy the benefits of joining a new multi-disciplinary research team in a well-equipped, custom designed facility.

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

**Personnel Coordinator**

EniChem Americas, Inc.
2000 Princeton Park Corporate Center
Monmouth Junction, NJ 08852

**CHAIRMAN DEPARTMENT OF BIOLOGY BOSTON UNIVERSITY**

Applications and nominations are invited for the position of Chairman of the Department of Biology at Boston University. Candidates must be leaders in their fields of research and be capable of providing aggressive and innovative leadership to the department during an era of growth in the sciences at Boston University. The Department of Biology includes 31 full-time faculty and 120 graduate students with a broad spectrum of research interests. The University has recently invested over $100 million in the upgrading of science and engineering facilities, including a new Biological Research Laboratory. Strong interactions exist between the faculty in the Department of Biology and other departments and Schools including the College of Engineering and School of Medicine. Close ties to the Woods Hole Marine Biology Laboratory are maintained through the Boston University Marine Program. Applications, including a curriculum vitae and the names of three or more references, should be sent to:

Lee Makowski
Chairman, Biology Search Committee
Boston University Department of Physics
590 Commonwealth Avenue
Boston, Massachusetts 02215
Fax: 617/353-9393

An equal opportunity, affirmative action institution.
**HIV Virologist**

Beckenham, Kent

Wellcome is an internationally renowned pharmaceutical group engaged in the research, development, manufacture and marketing of human healthcare products.

We currently have a vacancy for an HIV Virologist to work on a project involving the investigation of basic replication processes of the virus with the aim of identifying suitable targets for chemotherapy. In addition, the effects of established therapeutic agents such as Retrovir (AZT) on the replication of sensitive and drug-resistant HIV variants will also be studied. The successful candidate will become part of a research group currently engaged in isolation and characterisation of drug-resistant HIV variants from patients receiving therapy.

You should be willing to work with HIV and already have some experience in virology and molecular biology, but not necessarily with HIV itself. Knowledge of virus handling and recombinant DNA technology is essential.

This will be a 3 year post-doctoral position ideally suited to a recent post-doctoral scientist.

In addition to an attractive salary which is dependent on experience, you can look forward to an extensive range of benefits including 5 weeks' holiday, pension scheme, profit share scheme, first-class sports and social facilities and a subsidised restaurant.

**Please write with full career details to Miss S. J. McKinlay, Personnel Officer, The Wellcome Research Laboratories, Langley Court, Beckenham, Kent BR3 3BS. U.K. Please quote reference 91/152.**

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**Manager of Ortho-munes & Group Leader of Monoclonal Technology**

Ortho Diagnostic Systems Inc., a Johnson & Johnson Company, is known throughout the world for the development and manufacture of medical diagnostics, reagents, immunological and related products. We are currently seeking candidates for two positions—Manager of Ortho-munes and Group Leader of Monoclonal Technology.

The position of Manager will involve coordinating the research efforts in Ortho-munes and will require a working knowledge of flow cytometry and its applications to white cell surface antigens using monoclonal antibodies. The successful candidate will be an immunologist with a PhD and 3-5 years' experience in flow cytometry and in supervising scientific personnel in this area.

The Group Leader of Monoclonal Technology will be responsible for directing the development of both human and murine hybridomas producing monoclonal antibodies for a variety of specificities relating to diagnostic products.

This individual will be an immunologist with a PhD, 3-5 years' supervisory experience in this area and a working knowledge of all aspects of production of human and murine hybridomas and characterization of cell lines and monoclonal antibodies.

Our Raritan, NJ headquarters is conveniently located within an hour's drive of New York and Philadelphia. In addition to a very competitive salary, we offer the outstanding Johnson & Johnson benefits package, including dental plan, tuition reimbursement and an on-site Wellness Center. To help us continue to play a vital role in enhancing world health, send your resume, in confidence, to: Human Resources Dept. TS.
THE MERVIN BOVAIRD CENTER FOR STUDIES IN MOLECULAR BIOLOGY AND BIOTECHNOLOGY

Five Faculty and Four Technical Positions

Due to major funding acquisitions through The Mervin Bovaird Foundation and a cooperative Center of Excellence in Molecular Medicine with The University of Oklahoma Health Sciences Center, The University of Tulsa is expanding its tenure-track Biomedical Science faculty. Specific research areas open are:

- Microbiologist
- Molecular Biologist/Virologist
- Molecular Immunologist
- Organismic Developmental Biologist/Parasitologist
- Developmental Biologist/Molecular Biologist with Expertise in Transgenic Mice

All positions will be provided with newly renovated laboratory space and generous start-up funds. The transgenic mouse facility is guaranteed five years of substantial funding in addition to start-up monies. Requirements: Ph.D., postdoctoral experience, and a publication record indicative of the potential to establish and maintain an externally funded research program. Salary and rank will be commensurate with experience. All faculty are expected to teach both undergraduate and graduate students, and to maintain a record of excellence and productivity in scholarly research.

Technical positions (experience required):

- Research Scientist: Biochemistry and computers
- Research Scientist: Recombinant DNA and cell culture
- Research Scientist: Transgenic mice
- Animal Facility Caretaker

The department has a faculty of sixteen and offers MS, and Ph.D. degrees. Extramural funding in 1987-89 totaled four million dollars. Facilities include state-of-the-art laboratories and equipment.

The University of Tulsa is a private, heavily endowed, comprehensive university of four thousand students with a strong commitment to teaching and research. The city of Tulsa is an economic and cultural center of 750,000 population, surrounded by lakes and located in the foothills of the Ozark Mountains. Applicants and nominees should identify the position of interest and submit curriculum vitae, statement of research, and extramural funding plans and three letters of reference to:

Dr. Steffen Rogers  Chairman, Faculty of Biological Science
The University of Tulsa  600 South College Avenue, Tulsa, Oklahoma 74104

THE UNIVERSITY OF TULSA

The University of Tulsa has an Equal Opportunity/Affirmative Action Program for students and employees.

BIOMEDICAL RESEARCH

DISCOVER THE NCI-FREDERICK CANCER RESEARCH FACILITY

Imagine a place where your skills represent today's most sophisticated technology...where you're given the freedom you need to make new discoveries, and where your capabilities are limitless. This is the environment you'll find at Program Resources, Inc., the major operations and technical contractor in support of NCI programs at the FCRF in Frederick, MD.

Right now at PRI, we're at work on some of the most exciting programs underway today. Like recombinant DNA. Cyto genetics and human chromosome mapping. HIV vaccine development and drug screening. Biologic response modifiers. Anti-cancer agents and more—with new programs coming on board all the time. We're even applying supercomputer technology to our work and the results have helped us make great strides.

Enhance your career where you'll know no limits and explore today the exciting professional challenges you'll find at PRI. You'll work in a campus-like setting in Frederick, MD near Baltimore and Washington, D.C. In addition, we provide a competitive salary and excellent benefits, including insurance, relocation assistance, and a tax-deferred savings plan.

Send CV/resume to Barbara Norton-Gill, Technical Recruiter, Program Resources, Inc., NCI-FCRF, P.O. Box 8, Frederick, MD 21701.

PRl PROGRAM RESOURCES, INC.

EOE/MI/H/V.
Today, that commitment continues worldwide with the discovery, development and manufacturing of the highest quality health care, diagnostic, and agricultural products. With current investments of more than $600 million in research and development programs, our continued success requires the finest scientific talent available.

Opportunities currently exist in our Toxicology Division for BS/MS scientists with research experience in the following areas:
- Cardiovascular Physiology Research
- Central Nervous System Research
- Biochemical Research
- Reproduction/Teratology
- Carcinogenesis Mutagenesis Research
- Morphologic Pathology

We are seeking candidates with degrees in Anatomy, Biology, Biochemistry, Molecular Biology, Pathology, Physiology, Pharmacology, Toxicology, or Biomedical Engineering with related experience. Knowledge of animal handling, computer and statistical procedures, biomedical laboratory procedures, histochemistry, tissue culture techniques, and radioisotopic methodologies will be useful. Excellent verbal and written communication skills are essential.

In addition to attractive salaries and benefits, Lilly provides excellent programs for continued growth, including ongoing training through in-house seminars and off-site programs. We also provide financial assistance for advanced degrees and job-related coursework.

If you have a personal commitment to the future of global health care, bring your talents to Lilly. Please send your resume with an indication of your area of interest to:

Ms. Ann Hinson (TOX)
Corporate Recruiting
Lilly Corporate Center
Eli Lilly and Company
Indianapolis, Indiana 46285

Eli Lilly and Company is an equal opportunity employer.
Clinical Epidemiologist/Biostatistician

Dynamic national organization is seeking a senior professional for its Medical Department as ASSISTANT MEDICAL DIRECTOR FOR CLINICAL TRIALS.

Requires Ph.D. epidemiologist/biostatistician with experience in clinical trials and database management.

Duties include:
- Administer patient registry database,
- Perform annual updates and analyses,
- Administer clinical trials funded by the Foundation,
- Review proposals,
- Oversee data management and analyses performed under contract.

Position involves extensive VAX computer programming and requires experience with SAS and Oracle; FORTRAN experience helpful. Excellent organizational, interpersonal and decision making skills are essential.

We offer a competitive compensation and benefits package. Send your resume and salary requirements to:

Cystic Fibrosis Foundation
6931 Arlington Rd.
Bethesda, MD 20814
Code: DG

DIRECTOR GENERAL

The Director General is the chief executive of the International Potato Centre with headquarters in Lima, Peru.

CIP is one of the thirteen international research and training centres supported by the Consultative Group on International Agricultural Research (CGIAR) and is a non-profit, autonomous institution established to develop and disseminate knowledge for the greater use of root and tuber crops as a basic food for the developing world.

The present director general will retire in April 1991 and the Board of Trustees has begun an international search for his successor. The Board plans to identify the successful candidate by September, 1990, and the appointment will commence early in 1991.

The new Director General of CIP will possess a proven record in management and administration; extensive experience and high qualifications in agricultural research; a sound knowledge of and experience with agriculture in developing countries; vision and leadership qualities and an ability to communicate and inspire high performance from scientists and administrators of different nationalities and disciplines.

A competitive salary with fringe benefits will be offered. Requests for further information should be directed to the Chairman of the Search Committee, David L. Call, Dean, College of Agriculture and Life Sciences, Cornell University, Roberts Hall, Ithaca, New York 14853, USA. (FAX 607-255-0786)

Applications for the position should be forwarded (preferably before October 20, 1989) to:

CIP Search Committee
c/o Dr. J.W. Meagher
3 Kingfield Court
Burwood, Vic. 3125
AUSTRALIA

FAX: 61 3 8885159
Telex: AA 30625

ABBOTT LABORATORIES

With $5 billion in sales, Abbott Laboratories is a Fortune 100 provider of quality health care products and services worldwide, known for stable growth and sound management. Currently we offer the following exceptional opportunity within our Pharmaceutical Products Division.

MACROMOLECULAR CRYSTALLOGRAPHY ASSISTANT

Pharmaceutical Products Division

The Computer Assisted Molecular Design group is expanding its protein crystallography laboratory to support Discovery Projects. This group is dedicated to the discovery of potent new pharmaceutical agents by combining x-ray crystallography and molecular graphics with energy and molecular dynamics calculations. Rational drug design plays a major role in our research strategy and methodology. Applicants with an M.S. or a B.S. and research experience in protein crystallography, particularly in the areas of protein crystallization, heavy atom derivative preparation and data collection by film, diffractometry, or area detector methods are encouraged to apply. Experience with protein purification and biochemical characterization is highly desirable. Your involvement with Abbott’s crystallography group will include research into a number of structural targets related to the areas of neurosciences, immunosciences, and inflammation, cardiovascular, bacterial and viral diseases. The Protein Crystallography Laboratory is also a participant in a National Drug Discovery Group for AIDS, centered at Abbott, and is actively involved with structure-based design efforts for HIV inhibitors in this area.

Abbott is located in an attractive suburban area approximately 30 miles north of Chicago. We provide competitive compensation and benefits which include a profit sharing and a stock retirement plan. For immediate consideration, please send your resume with salary requirements to Patricia Handy, Corporate Placement, Job #7623, Abbott Laboratories, 1 Abbott Park Rd., Abbott Park, IL 60064. (To facilitate handling your resume, please indicate job number on your cover letter or resume.) Abbott is an Affirmative Action Employer.

ABBOtt LABORATORIES

BOEHRINGER INGLEHEIM PHARMACEUTICALS, Inc., a major innovator in the research, development, manufacture and marketing of ethical drugs, has the following opening in our expanding Toxicology and Safety Assessment Department.

The position is located at our Research and Development campus located in the DANBURRY, CT area.

The selected individual will be responsible for the critical review and evaluation of toxicology and pharmacology studies, analysis and interpretation of data and the integration of reports into scientific documents. You will participate in project management teams including the Clinical Development Group.

Requirements include a Ph.D. or M.S. in Toxicology, Pharmacology, or a related life science. The successful candidate should also have excellent writing skills and some knowledge of the drug development process. Special consideration will be given to those with regulatory or industry experience and/or knowledge of reproductive toxicology.

BOEHRINGER INGLEHEIM offers one of the pharmaceutical industry's truly superior compensation packages, a package that includes excellent salary, comprehensive medical benefits, relocation assistance, and a company-matched Investment Savings program.

To explore your career options at BOEHRINGER INGLEHEIM, send your resume and salary history in confidence to: Dept. JC-15-974, BOEHRINGER INGLEHEIM PHARMACEUTICALS, Inc., 90 East Ridge, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer M/F.

Boehringer Ingelheim
**ENVIRONMENTAL RESEARCH SCIENTIST**

For over four decades, Los Alamos National Laboratory has challenged the frontiers of science, combining basic sciences with engineering disciplines and technological advances. As one of the largest multiprogram national laboratories in the United States, we are also internationally recognized as one of the most prestigious scientific and engineering institutions in the world.

As a member of a multidisciplinary team, your responsibilities will include environmental research to support the DOE Environmental Restoration Program. You will assist in performing site characterization activities and proposing remedial actions for sites at Los Alamos. You will be responsible for evaluating data and developing/implementing solutions for environmental and hazardous waste problems. You will be required to interact with several levels of technical and regulatory personnel, both internal and external to the Laboratory. You will also be expected to make presentations, prepare reports and peer-reviewed publications, and participate with other scientists in developing future funding sources and projects.

A strong background in environmental research with an emphasis in remediation to solve environmental problems is required. Experience in environmental investigations, contamination evaluation, site characterization and remedial actions is desired. You must be able to work well as a member of an interdisciplinary team in applied environmental research and contamination cleanup, and venture beyond areas of specialization as problems require. Effective oral/written communication skills are necessary. A familiarity with environmental statutes and regulations governing site characterization and site cleanup is desirable. A PhD in chemical or environmental engineering, hydrology or environmental science or equivalent combination of education and relevant experience is necessary.

As a leading R&D institution, we provide an attractive salary/benefits package and a challenging work environment. Interested candidates should send their resume to Portia Blackman (MS P280), Personnel Services Division 90621-DV, Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Must be able to obtain a Department of Energy Security Clearance.

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**Yale UNIVERSITY**

**Evolutionary Biology**

The Department of Biology is engaged in building an interdisciplinary program in the evolutionary sciences and organismal biology and invites applications for positions at the senior and junior levels. While outstanding scientists working in any area of evolution will be considered, areas of particular interest to our faculty include molecular approaches to population biology or phylogeny, developmental approaches to evolution, evolution of genome organization, and quantitative approaches to evolutionary problems. With building renovations now well underway, we are prepared to make several appointments as soon as possible.

We seek individuals with a strong interdisciplinary inclination, who might profit from interaction with the Department's strong programs in molecular, cell, developmental, and organismal biology, and the Peabody Museum of Natural History.

Send curriculum vitae, description of research interests and names and addresses of at least three references by January 1, 1990 to:

Evolutionary Biology Search Committee, c/o The Chairman, Department of Biology, Yale University, PO Box 6666, New Haven, CT 06511

Yale University is an Affirmative Action/Equal Opportunity Employer

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**ZYMOGENETICS**

**SENIOR SCIENTIST · WOUND REPAIR GROUP**

ZymoGenetics, Inc., is a Seattle based biotechnology company at the forefront of wound repair and growth factor research. We currently seek a senior scientist in our Wound Repair Program.

The successful candidate will join a team involved with the research and development of growth factors for wound healing therapy, as well as other molecules involved in wound repair. The ideal candidate will have relevant experience and work in the following areas:

- Development of clinically relevant animal models of wound healing.
- Evaluation of biologically active proteins in wound healing models.
- Development of new methods of measurement and quantitation of wound healing parameters.
- Identification of novel molecules with wound healing activities.

Candidates should possess a Ph.D. or D.V.M. and significant post-doctoral or equivalent experience. Additionally, applicants must demonstrate creativity, independent research skills and the ability to work well in a collaborative environment.

ZymoGenetics, Inc., offers a stimulating scientific environment, modern and well-equipped facilities and an attractive compensation and benefit package. For consideration, please submit C.V., names and addresses of three references and a short description of recent research activities to: ZYMOGENETICS, INC., Human Resources Coordinator, 4225 Roosevelt Way NE, Seattle, WA 98105

EEO

ZymoGenetics, Inc. is a subsidiary of Novo-Nordisk A/S, one of the world's leading biotechnology companies and a major force in insulin manufacture and diabetes treatment.

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**University of California**

**Los Alamos**
PUT YOUR RESEARCH EXPERTISE TO WORK IN AN EXCITING AND CHALLENGING ENVIRONMENT

Neurex Corporation is a dynamic and innovative leader in developing therapeutic products, based on novel peptides and receptors, for the treatment of endocrine and neurological disorders. An outstanding team has been assembled and recent research progress has created the following senior level positions.

VICE PRESIDENT OF SCIENTIFIC AFFAIRS

Reports to the Chairman of Neurex. Responsibilities include external relationships, patents, market analysis and strategic planning. External relationships include pharmaceutical partners, scientific advisors and investors. Requires a senior scientist who is a recognized authority in his or her field and who has supervised a significant research effort. Previous business experience is not required but strong leadership skills and superior judgement are essential.

SENIOR MOLECULAR BIOLOGIST

Reports to V.P. of Research. Will coordinate in-house molecular biology program on novel biologically active peptides and their receptors and build the team necessary for Neurex success. Requires a PhD in molecular biology and a minimum of 5 years' academic or industrial experience. Experience in eukaryotic expression systems desirable. Must have an established track record in scientific accomplishment and leadership responsibility.

SENIOR PHARMACOLOGIST

Reports to V.P. of Research. Will coordinate both in-house and extramural pharmacology programs. Requires a PhD in Pharmacology, 5 years' industrial experience, knowledge of FDA submission requirements and direct experience communicating with the FDA, contract research firms and academic institutions.

Neurex Corporation, located in Menlo Park, CA, offers an exciting work environment which fosters career growth and development and an excellent salary and benefits package, including stock participation. Send curriculum vitae and compensation history to: Neurex Corporation, 3760 Haven Avenue, Menlo Park, CA 94025, Attn: Human Resources.

NEUREX CORPORATION
An Equal Opportunity Employer

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NEUREX CORPORATION
An Equal Opportunity Employer

NATIONAL SCIENCE FOUNDATION

Programs to Support RESEARCH VISITS TO JAPAN

The National Science Foundation (NSF) is endeavoring to increase the number of American scientists and engineers who conduct research in Japan. To that end, the Foundation, together with Japanese public and private organizations, provides expanded opportunities for collaboration with Japanese academic and non-academic research laboratories.

Programs, consisting of research stays of six to 24 months at academic, governmental, or industrial laboratories in Japan, are available to meet the interests and needs of U.S. post-doctoral and senior researchers—whether from academic, governmental, or industrial institutions.

As eligibility requirements, primary focus and application deadlines vary among the several programs of support. U.S. researchers are encouraged to request any or all of the following publications which provide more specific information in the areas indicated. Single copies are available from: Forms and Publications Unit, Room 232, National Science Foundation, 1800 G Street, N.W., Washington, D.C. 20550. Publications may also be ordered electronically through access to either BITNET or INTERNET. BITNET users should address requests to “pubs@NSF”. INTERNET users should send requests to “pubs@note.nsf.gov”.

Requests must include the NSF publication number and title, number of copies needed, your name, and a complete mailing address. Publications will be mailed within two days of receipt of request.

NSF 88-51
Fact Sheet - Support for Research Visits to Japan
Through the National Science Foundation

NSF 88-52
Science and Technology Agency of Japan Postdoctoral Awards for United States Researchers (to national laboratories)

NSF 88-98
Japan Society for the Promotion of Science (JSPS) Postdoctoral Awards for United States Researchers (to academic laboratories)

NSF 88-118
Awards for Japanese-Language Study by Researchers in Science and Engineering

NSF 89-16
NSF-AIST Program (to laboratories of Japan’s Agency of Industrial Science and Technology)

1292
**Senior Scientist Research & Development**

T CELL SCIENCES, INC. is a health care company engaged in the development and marketing of therapeutic/diagnostic products. Positions at T CELL SCIENCES include a career-enhancing environment and offer the opportunity to work with internationally recognized scientists in converting their discoveries into products.

High potential growth opportunity for Ph.D./M.S. with 2-5 years experience in immunopharmacology or biochemistry to work on a multidisciplinary biopharmaceutical project involving the biological testing of recombinant human proteins both in vivo and in vitro. Candidates should have extensive experience in protein and carbohydrate biochemistry, immunoassays, and pharmacokinetics studies to evaluate the function and mechanism of the protein. Excellent communication and interpersonal skills required.

T CELL SCIENCES, INC. offers competitive benefits and competitive salaries. For immediate consideration, please forward C/V to Paula R. Freeman, T CELL SCIENCES, INC. 38 Sidney St. Cambridge, MA 02139.

An Equal Opportunity Employer M/F

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**Instrumentation Development Manager**

Life Science Products

Millipore, a Fortune 500 international corporation, has brought the world valuable innovations for use in scientific and medical applications. Our continued efforts are sure to produce even more breakthroughs in the field of analysis and purification.

As an Instrumentation Development Manager, you'll be responsible for managing the development of instrument-based products for the Life Sciences marketplace. Your primary duties will include the development of product specifications in conjunction with Marketing, management of Engineering product development teams and monitor of external product development activities by OEMs and contract vendors. In addition, you will be responsible for customer field trials, reliability testing, product transfer to manufacturing, field service training, and personnel and financial administration of the R&D group.

The individual we seek will hold an advanced degree in Engineering (preferably Mechanical) and 8-10 years' experience in developing instruments from product definition through manufacturing and service. Experience in the development of system control and data analysis software is preferred. Experience in the development of instruments which interface with plastic disposable components for the Life Sciences, research laboratory, or clinical chemistry markets is highly desirable. In addition, 3-5 years' supervisory experience is required as well as experience in managing external design firms, contractors, and OEMs.

Interested candidates should forward a resume to: Employment Department, Millipore Corporation, 80 Ashby Road, Bedford, MA 01730. An equal opportunity employer.

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**RESEARCH OPPORTUNITIES**

Molecular Vaccines, a dynamic biotechnology company in the Washington, DC area, is committed to the discovery and application of novel molecular and immunologic approaches toward the development of vaccines and therapeutic agents for infectious diseases and cancer. Our rapidly expanding activities have created a number of openings for individuals with Ph.D., M.S., and B.S. degrees to work in the following areas:

* **IMMUNOLOGY**
* **MOLECULAR BIOLOGY**
* **PEPTIDE CHEMISTRY**
* **MAMMALIAN CELL CULTURE**

Successful candidates will have strong research experience and a demonstrable record of scientific productivity. Molecular Vaccines offers competitive salaries, an excellent benefits package and a unique opportunity that encourages professional growth. Applicants should submit their resume for prompt, confidential consideration to: Molecular Vaccines, Inc.; Human Resources Department; 19 Firstfield Road; Gaithersburg, MD 20878.

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**ASSOCIATE SCIENTIST CHEMISTRY**

At Cetus Corporation, we are committed to maintaining our leading role in the research and development of biotechnology-based products.

We are currently seeking an experienced Associate Scientist to conduct research in the areas of medicinal and nucleic acid chemistry (oligonucleotide synthesis and modification, immobilization, etc.), and to be responsible for the design, synthesis and characterization of various molecules of biomedical importance.

To qualify, you must have a Ph.D and a minimum of 3 years' postdoctoral/industrial experience. General organic synthesis skills specifically related to nucleic acids, excellent communication skills and effective teamwork is also required.

Cetus offers competitive salaries commensurate with your experience and education, an outstanding benefits package and significant opportunity for career growth. For consideration, please send your resume to: Cetus Corporation, Box CL, 1400 Fifty-Third Street, Emeryville, CA 94608. We are an Equal Opportunity Employer.
PROTEIN CRYSTALLOGRAPHER
The newly created "Laboratoire d'Ingénierie des Protéines," Commissariat à l'Energie Atomique, France, invites applications for the post of an x-ray protein crystallographer. Applicants should be interested in playing a major role in setting up this activity within the "Laboratoire d'Ingénierie des Protéines." This aspect of the laboratory will be based in Grenoble, France. Applicants should have at least several years of postdoctoral experience and preferably experience in running a successful group. Enquiries can be made either to: Dr. P. Fromageot (Director of the Laboratory, telephone: 1 69 08 26 03) or to: Dr. G. Marguerie (Assistant Director, telephone: 1 69 08 26 46). Applications should include curriculum vitae, the bibliography, an outline of research plans, and names of three referees, and should be sent to: DRF G-LIB-HOM, 85X, 38041 Grenoble Cedex, France.

RESEARCH INVESTIGATOR
The Merck Sharp & Dohme Research Laboratories, recognized as a world leader in pharmaceutical research and development, has immediate openings for associates in the field of infectious Disease Research. We seek highly motivated individuals with ability to conduct independent research and contribute to the development of suitable small animal models, and to participate with a multidisciplinary team in the evaluation and development of novel therapeutic agents. The successful candidate must have an MS or Ph.D. degree in Microbiology with two or more years of experience or a strong background in Chemistry/Biochemistry (HPLC, analytical skill sets required, enzyme kinetics desirable). We are also seeking individuals with a BS/MS degree in Microbiology to conduct in vitro and in vivo experiments, assist in pharmacological studies and provide assistance with personnel issues in a program devoted to the evaluation and development of new antibiotics, good oral and written communications as well as interpersonal skills are expected. Job level offer will be in accord with the incumbent's academic and/or past employment history.

RESEARCH ASSISTANT
with experience in molecular biology or related field. M.S. in a life sciences discipline or B.S./B.A. with experience required. Successful candidate will conduct research under direction of laboratory supervisor and assist in general maintenance of the laboratory. Applicants must have two to three references to: Research Assistant Search, c/o Elena Chiarchiario, Biological Department, Lewis Thomas Laboratory, Princeton University, Princeton, New Jersey 08544-1014.

An Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTISTS
The Immune Response Corporation of San Diego, California is seeking Ph.D.-level scientists to participate in the development of therapeutic products for the treatment of autoimmune diseases. Currently an opening exists for a cellular and/or molecular immunologist to work on T-cell immunoregulation in autoimmune disease. IRC offers excellent salary and benefits, and an opportunity to make a significant contribution in the stimulating environment of a young research-based organization.

Interested candidates should submit the curriculum vitae to:

Chief Scientific Officer
The Immune Response Corporation
645 Nascent Avenue
San Diego, CA 92121

Reference: Cellular Immunologist
Equal Opportunity Employer.

RESEARCH SCIENTIST
In the Research and Development Laboratory. Seeking an experienced scientist with a background in biochemistry and molecular biology. Mission includes project management, benchwork, and limited teaching. Leadership and communication skills important. Forward information to: Dr. Elaine Tolbert, R&D, Applications Testing/QA Special-A.-

APPLICATIONS TESTING/QA SPECIALIST.-
Seeking an individual with B.S./B.S. minimum of 3 years experience in a research and development or an innovative company. Experience in both molecular biology and protein biochemistry preferred, recombinant DNA techniques a must. Position includes innovative application testing, product testing, and assay development. Direct inquiries to: Margot Keeve, Director QA/Applications Testing, IB/Kodak, 200 Science Park, Ithaca, New York 14856. Telephone: 203-785-5000 or 800-243-2655.

STAFF SCIENTIST
ENVIROMENTAL STUDIES
AND TOXICOLOGY
The National Research Council is seeking a staff scientist for studies on lead exposure in critical populations, and risk assessment methods, for its Board on Environmental Studies and Toxicology. Responsibilities include coordination, planning, and preparation for committee meetings, development of scientific data, writing of technical reports, and serving as a staff scientist for several committees. Requires a Ph.D. or equivalent and at least 4 years of experience in environmental health, risk assessment, environment, chemistry, or pathology. Ability to analyze and develop chemical and toxicologic data in scientific reports essential. We offer an excellent benefits package and a salary competitive with experience. Please submit in confidence, curriculum vitae, recent publication or writing sample, and names of references to: NRC BEST (HA 354-RD), 2101 Constitution Ave., N.W., Washington, DC 20418. Equal Opportunity Employer.

Microbiologists
The Merck Sharp & Dohme Research Laboratories, recognized as a world leader in pharmaceutical research and development, has immediate openings for associates in the field of infectious Disease Research. We seek highly motivated individuals with ability to conduct independent research and contribute to the development of suitable small animal models, and to participate with a multidisciplinary team in the evaluation and development of novel therapeutic agents. The successful candidate must have an MS or Ph.D. degree in Microbiology with two or more years of experience or a strong background in Chemistry/Biochemistry (HPLC, analytical skill sets required, enzyme kinetics desirable). We are also seeking individuals with a BS/MS degree in Microbiology to conduct in vitro and in vivo experiments, assist in pharmacological studies and provide assistance with personnel issues in a program devoted to the evaluation and development of new antibiotics, good oral and written communications as well as interpersonal skills are expected. Job level offer will be in accord with the incumbent's academic and/or past employment history.

The Department of Biology at Memphis State University invites applications for two tenure track positions, one in biochemistry and the other in molecular biology. Appointments will be made at the rank of Assistant Professor or Associate Professor depending on qualifications. Minimum qualifications are a Ph.D. degree and postdoctoral training. Applicants for the biochemistry position are expected to have an academic and research concentration in an area of molecular biology with support training in genetics, cell biology or biophysics. Successful candidates will be expected to develop a strong graduate research program and to provide quality teaching to undergraduate and graduate students. Review of applications will begin on 11.0.1989 and continue until the positions are filled. Interested candidates should send curriculum vitae, statement of research plans, representative reprints and names of three references to: Dr. S. Edward Stevens, Jr., Chair of Search Committee, Department of Biology, Memphis State University, 201 Life Sciences Building, Memphis, TN 38152.

Successful candidates must meet Immigration Reform Act criteria.

Memphis State University is an Equal Opportunity/Affirmative Action Employer.
HEALTH SCIENTIST ADMINISTRATION TRAINING
THE NATIONAL INSTITUTES OF HEALTH THROUGH THE GRANTS ASSOCIATES PROGRAM

Scientist in biomedical or behavioral research interested in an administrative career with federal programs supporting research and training in health related fields may wish to consider the Grants Associates Program in the U.S. Public Health Service. This program is governed by the Grants Associates Board and is administered by the Office of Extramural Programs in the Office of the Director, National Institutes of Health.

The Program offers a limited number of full-time permanent positions per year on a highly selective basis, that prepare each associate for a leading role in health science administration. For a twelve-month period, Grants Associates participate in individually structured training experiences including on-the-job assignments, courses and seminars. The Program provides opportunities for participation in the development and administration of federally supported research programs, in the fundamentals of effective management, in the peer review process and in other related areas of health science administration. The Program also attempts to develop a sensitivity to the consequences of program decisions on other federal health programs, research institutions, and national health needs.

Admission to the Program is highly competitive for the five positions available. Motivation for a career in science administration, good interpersonal skills, and evidence of executive potential are important. If you are a U.S. citizen and hold a doctorate or equivalent in a discipline related to the biomedical or behavioral sciences, have significant independent research experience beyond the doctorate and are attracted to health science administration as a profession, you should inquire about the Grants Associates Program.

Grants Associates may be appointed either in the U.S. Civil Service with a salary range of $34,580 to $48,592 (General Schedule levels 12 - 14) depending on experience or in the Commissioned Corps of the U.S. Public Health Service at ranks beginning with senior grade (03 Lieutenant), salary dependent on prior military experience, but beginning at $21,225.60 basic pay only.

The National Institutes of Health does not discriminate in employment on grounds of race, color, sex, national origin, age, handicap or religion.

For further information, write to:
Director, Health Scientist Administrator Development Programs (S) Office of Extramural Programs Office of the Director National Institutes of Health Building 31, Room 5B-32 9000 Rockville Pike Bethesda, MD 20892

WILDLIFE BIOLOGISTS / PLANT ECOLOGISTS

EG&G is seeking wildlife biologists to participate in research investigating the effects of energy related development on the endangered San Joaquin kit fox, giant kangaroo rat, Tipton's kangaroo rat, and blunt-nosed leopard lizard at the Elk Hills Naval Petroleum Reserve, CA, and a plant ecologist to characterize the possible site of a radioactive waste repository at Yucca Mountain, NV.

The minimum requirement for an entry level position in wildlife biology is a B.S. degree in biology, zoology, wildlife management or related field. Minimum requirements for senior level positions are a B.S. degree in one of the above disciplines plus 3-5 years experience. Senior applicants must also have demonstrated ability to design, implement and manage multidisciplinary research projects and have knowledge of environmental laws and regulations as they may apply to endangered species and environmental protection. Work location is near Bakersfield, CA.

The minimum requirements for the plant ecologist position are a B.S. degree in soils, botany, biology or range management, 2 years experience working in field biology, experience in soils profile description and top soil salvaging, and experience in plant identification. Work location is Las Vegas, Nevada.

Qualified candidates send resumes and example of written material to:
EG&G Energy Measurements, Inc. Santa Barbara Operations Attn: Technical Recruiting 130 Robin Hill Road Goleta, CA 93117

A pre-employment physical which includes drug and alcohol screening and U.S. citizenship required. An equal opportunity employer.

THE BIOGEN

The Biogen story starts with our strategic focus on human therapeutics. From AIDS and anti-inflammation to selected cancer markets, we continue to enjoy a leadership position in the field of biotechnology. Among our latest breakthroughs is CD4, a potential AIDS therapy now in human clinical trials. Our West German affiliate is marketing gamma interferon for the treatment of rheumatoid arthritis. In fact, gamma interferon is the fourth marketed drug that Biogen has played a major role in developing. With 11 years in the industry, Biogen continues to display the maturity and innovation needed to reach its ultimate goal of becoming a fully-integrated pharmaceutical company.

Cell Biologist

Position focuses on cell culture process optimization with responsibilities including media development, product clone evaluation and bioreactor process optimization. You'll also oversee service function work and interact frequently with Research, Production, Quality Control and Regulatory Affairs Departments. The ideal candidate will hold a Ph.D. or MS in Cell Biology, Biochemical Engineering or related field with hands-on experience using mammalian cells to produce recombinant proteins. A working knowledge of process development or cGMP manufacturing functions is necessary.

The outstanding Biogen benefits package includes fully-paid life, medical, dental and disability insurance. A 401K savings plan with company-matching provision along with company-paid pension. 100 percent tuition reimbursement for as many as 4 courses a year. 10 weeks' paid maternity leave. Plus a lot of little things that really add up — like our credit union, on-site aerobics and relocation assistance.

To apply for this opening, send your resume to Biogen, Inc., Ref. SV915, 14 Cambridge Center, Cambridge, MA 02142. Biogen is an Equal Opportunity Employer.
JOHN H. SUNUNU ENDOWED FELLOWSHIP in Basic Science Research

St. Jude Children's Research Hospital, a premier research center for catastrophic diseases in children and biomedical research, offers the John H. Sununu Endowed Fellowship in Basic Science Research. The fellowship is available to Ph.D. or M.D. investigators who wish to gain training and experience in one of the specialty areas of biomedical research at this center. Research opportunities are available in the departments of biochemistry, immunology, pharmacology, tumor cell biology, and virology/molecular biology. St. Jude Hospital is academically affiliated with the University of Tennessee Center for the Health Sciences.

John H. Sununu Endowed Fellowship awards are made for up to two years. Awards are based on merit, recommendations, and the promise of a productive career in basic science research.

Application deadline: 1 January 1990
Decision: 15 February 1990
Beginning date: 1 July 1990
Stipend: Competitive

The John H. Sununu Endowed Fellowship in Basic Science Research was established by the American Lebanese Syrian Associated Charities/ St. Jude Children's Research Hospital Boards of Governors and Directors in honor of Mr. Sununu's contributions to the political life of the nation as an American of Arabic ancestry.

St. Jude Children's Research Hospital is an Equal Opportunity/Affirmative Action Employer.

For more information contact:
Allan Granoff, Ph.D.
Deputy Director
St. Jude Children's Research Hospital
P.O. Box 318
Memphis, TN 38101-0318 USA

DIR ECTOR CENTER FOR ENVIRONMENTAL AND ESTUARINE STUDIES
University of Maryland System

The University of Maryland seeks a director to serve as chief administrative officer for its Center for Environmental and Estuarine Studies (CEES), an institution of the University of Maryland System. The Center is charged with the responsibility to produce and to develop new knowledge through a program of research, education, and public service. Center headquarters are in Cambridge, Maryland, with three regional laboratories — Horn Point Environmental Laboratories located on the Eastern Shore coastal plain, Chesapeake Biological Laboratory on the Western Shore of the Chesapeake Bay, and the Appalachian Environmental Laboratory in the mountains of Western Maryland. Areas emphasized include fisheries science and aquaculture, environmental chemistry, and geochemistry, aquatic toxicology, systems ecology, estuarine and coastal oceanography, nutrient cycles, estuarine circulation, wetland ecology, freshwater and terrestrial ecology, wildlife biology, and environmental policy.

Scientists with a distinguished record of research and administration are invited to apply. The successful candidate will be expected to supply administrative and programmatic leadership to growing academic and research programs and will be qualified for the rank of full professor at CEES. At present, the Director administers a scientific and support staff of approximately two hundred and fifty, forty-five of whom are academic faculty; an operating and research budget of approximately $16 million; a research fleet and a large physical plant. In Fiscal Year 1989, CEES received approximately $7.7 million in sponsored research awards. The Director reports to the Chancellor of the University of Maryland System, and is administratively equivalent to a President in the University of Maryland System.

Nominations are invited. Applicants should include current resumes and details of present responsibilities.

Nominations and applications should be sent to: Dr. David Sparks, Vice Chancellor for Academic Affairs, Chairman, Search Committee, Director of CEES, University of Maryland System, Adelphi, MD 20783.

Those received by October 16, 1989, will receive first consideration. Those arriving after that date may be considered by the Committee if received before the final report is submitted. All applications and inquiries will be treated as confidential. The University of Maryland System is an affirmative action, equal opportunity employer.

POSTDOCTORAL POSITIONS
BIOCHEMICAL PHARMACOLOGY

Fisons Pharmaceuticals, an international pharmaceutical research and development organization, has an immediate opening for a postdoctoral fellow in the Biology Department at its research facility in Rochester, NY. The two-year position offers the opportunity to work with a multidisciplinary research group on the pharmacology of neuropetidergic receptors and the role of second messengers in the regulation of cellular function. These studies involve the use of cell culture, monoclonal antibody, receptor binding, protein chemistry and second messenger analytical technologies. Expertise in one or more of these areas is desirable.

Please forward resume, in confidence, with salary history to: Bill VanBuskirk, Fisons Pharmaceuticals, P.O. Box 1710, Rochester, NY 14603

Research Engineer

Will study and analyze the effect of cavity pressure on the mechanical and physical properties of injection molded plastics. Responsible for developing correlations between process variables and end-use properties of new and existing, modified molding and extrusion processes. Will develop appropriate test methods to evaluate stress crack resistance, adhesive strength, creep resistance, tensile and impact properties of extrusion coated, injection molded, blow-molded, thermoformed and extruded plastics.

Requires Master's degree in Chemical Engineering with major field in Polymer Processing. Education to include completion of a Master's Thesis on the effect of cavity pressure on the mechanical and physical properties of injection molded thermoplastics. Hours: 9:00am - 5:00pm, 40 hours per week at $715.38 per week salary. Please send resume to: ILLINOIS DEPARTMENT OF EMPLOYMENT SECURITY, 401 South State Street - 3 South, Chicago, IL 60605, Attention: L. Donegan. Reference #9534-D, AN EMPLOYER PAID AD

Research Pharmacologist

Applications are invited from research scientists with a Ph.D. in Pharmacology or related discipline interested in joining Agouron's exciting compound-based drug design projects at our laboratories in La Jolla. The successful candidate will assist in developing modern pharmaceutical research facilities and preferably will have 2-5 years of industrial experience in assay development and animal models, particularly for the assessment of anti-cancer agents. We are seeking an innovative, highly enthusiastic about working as part of a team and who will be eager to interact with colleagues in biology, biochemistry, organic synthesis and x-ray crystallography in evaluating the biological properties of potential drugs.

Compensation package includes stock option plan. Please apply with curriculum vitae and names of references to:
Personnel Department PW
Agouron Pharmaceuticals, Inc.
11025 North Torrey Pines Road
La Jolla, California 92037

Quantum
USI Division

Fisons Pharmaceutical Corporation
An Equal Opportunity Employer M/F
SENIOR VETERINARY PATHOLOGIST

Pharmaceutical Research

Searle is a world-wide leader in the pharmaceutical industry. Presently, we are seeking an A.C.V.P. certified veterinary pathologist in the Product Safety Assessment function.

This senior staff position requires a minimum of three years' experience in toxicologic pathology. Responsibilities include participation in the design, conduct, and interpretation of studies in animals to test the toxicity of potential new drug products. This requires demonstrably excellent skills in diagnostic and descriptive pathology at the gross, microscopic and ultrastructural levels. Excellent communication skills are also a requisite. The individual will also participate in special studies to ascertain the mechanisms of toxicity and work with pharmacologists to design and interpret models for testing drug efficacy.

This position offers high visibility, excellent salary, and a comprehensive benefits program. A relocation package is provided. We are located in a northern suburb adjacent to Chicago, which offers access to a variety of outstanding cultural and recreational facilities, several fine universities, and, at the same time, easy access to small town or rural environments.

Send your curriculum vitae in strict confidence to: Mr. Conrad Muehrcke, Searle, Dept. CM-105, 4901 Searle Parkway, Skokie, Illinois 60077.

Equal Opportunity Employer M/F/H

SEARLE

Together, we can do a world of good.

THE HEART INSTITUTE
HOSPITAL OF THE GOOD SAMARITAN

The Heart Institute is a newly established research facility dedicated to the study of myocardial ischemia, infarction, and all aspects of experimental cardiology. We are seeking qualified applicants for 2 positions:

Research Scientist: Full time research position, with faculty affiliation at the University of Southern California. Candidates must have a PhD or MD/PhD, with 2-3 years postdoctoral experience in cardiac physiology, biochemistry, electrophysiology or morphology and a demonstrated record of research accomplishments. Knowledge of cell culture techniques an asset, but not essential.

Postdoctoral Fellowship: 1-2 year positions for individuals recently having completed their PhD in any discipline relevant to experimental cardiology. MD's with a proven commitment to research will also be considered.

Competitive salaries will be offered for both positions, commensurate with experience.

Interested applicants should submit their CV, 3 references, and a brief statement of their research interests, to:

Karin Przyklenk, PhD
Heart Institute/Research
Hospital of the Good Samaritan
616 South Witmer Street
Los Angeles, CA 90017 USA

DIRECTOR
University of Missouri Research Reactor (MURR)

The University of Missouri-Columbia announces the search for a Director of the Research Reactor. The MURR is a multi-faceted research facility of national importance providing a prolific source of neutrons, gamma-rays, and radioisotopes for research programs in a number of academic departments, other universities, and industry. Substantial programs in neutron and gamma-ray scattering, neutron activation analysis, radiation effects, radiopharmaceuticals, health physics, and nuclear engineering applications are ongoing. The Reactor currently operates at 10 megawatts (more than 90% of the time), with an annual budget of about $5,000,000 and a staff of 75 full-time employees. Planning for an increased power level up to 30 MW, installing a cold-source/guide hall for neutron scattering research, and adding a new laboratory building for research are projects presently underway. An industrial affiliation is currently being sought to further develop the MURR applications.

We are looking for a Director with a nationally recognized scientific research record and demonstrated leadership capability. A tenured appointment in the appropriate academic department will be part of the position offer. The Director will be responsible for the Vice-Provost for Research. Salary will be competitive. Applications from women and minorities are especially encouraged. Candidates should send a curriculum vitae along with a list of five references to Dr. Joe Meese, Search Committee Chair, 282 Jesse Hall, University of Missouri-Columbia, Columbia, MO 65211.

To receive full consideration, applications should be received by November 1, 1989.

The University of Missouri is an Equal Opportunity Employer.

National Institutes of Health
Fellowship in Molecular Neurobiology

The Laboratory of Neurosciences, at the National Institute on Aging, National Institutes of Health, Public Health Service in Bethesda, MD, invites applicants for a Staff or Senior Staff Fellowship position, to study molecular biological aspects of the brain in relation to neuroplasticity, Alzheimer's disease, Down syndrome, and murine trisomy 16 (a model for Down syndrome). The successful candidate will be expected to apply techniques of recombinant DNA and/or in situ hybridization to address differences in gene expression in brain health and disease.

Applications are invited from individuals having a Ph.D., M.D., or combined degrees. Applications from women and minorities are invited. Salary commensurate with qualifications. Interested candidates should submit their Curriculum Vitae and two letters of reference to:

Stanley L. Rapoport, M.D.,
Chief, Laboratory of Neurosciences
National Institute on Aging
Building 10, Room 6C163
9000 Rockville Pike
Bethesda, MD 20892.

NIH is an Equal Opportunity Employer
POSITIONS OPEN

RESEARCH ASSOCIATE position at the Ph.D. level available to work in molecular biology service laboratory. Responsibilities include extensive publication and collaboration on a variety of projects. Experience needed in molecular techniques including DNA cloning, DNA and RNA hybridization, DNA sequencing, and immunoblotting. Approximately $30,000 per year. For further information call: Lucyrus L. Muldown, Ph.D. Telephone: 809-778-1608. Fax: 809-778-0191.

POSITIONS OPEN

VIBRATIONAL SPECTROSCOPY NATIONAL INSTITUTES OF HEALTH

Laboratory of Chemical Physics, National Institute of Diabetes and Digestive and Kidney Diseases, seeks outstanding candidate with Ph.D. and at least 3 years of postdoctoral training and experience to engage in a collaborative project primarily the study of applications of vibrational Raman and infrared spectroscopy. Applicant should have research interests in the structural, dynamic, and functional properties and biomembranes. Preference will be given to candidates with a strong theoretical spectroscopic background with extensive expertise in Fourier-transform Raman spectroscopy and/or infrared spectroscopy. Applicant should be proficient in computer programming and have a working knowledge of laboratory networks, Unix, and/or equivalent. Salary range $41,121 or may be commensurate with qualifications and experience. Interested candidates should submit curriculum vitae, along with a list of reference citations. Address to: Dr. W. Levin, Ph.D., Building 2, Room B1-27, National Institutes of Health, 9000 Rockville Pike, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

TRAINING PROGRAM

POSTDOCTORAL TRAINING PROGRAM IN THE CELLULAR/MOLECULAR BIOLOGY BRANCH

Positions are available for postdoctoral trainees (Ph.D. and/or M.D.) to obtain 2 years of specialized training in the methods and models of research on aging. This program is directed by a consortium which includes The University of Pennsylvania (Drs. E. Cristofalo, D. Kritchevsky, E. Levine), Temple University (Drs. R. Baserga, N. Duker, A. Schwartz), and Medical College of Pennsylvania (Dr. J. Roberts), and Merck Sharp and Dohme Research Laboratories (Drs. M. Bradley and W. Nichols). Research emphases include: cell cycle kinetics/dynamics; growth factor regulation; tumor suppression; aging biology; and DEFA activity in aging and cancer. Applicants must meet NRSA United States citizenship or residence requirements. Address applications (curriculum vitae, three letters of reference, and graduate school transcript) to: Vincent J. Cristofalo, Ph.D., Director, University of Pennsylvania, Center for the Biology of Aging, 3615 Clarent Street, Philadelphia, PA 19104-6006.

Predoctoral and postdoctoral RESEARCH TRAINING IN REPRODUCTIVE PHYSIOLOGY of vertebrates will be support funded in part by the University of Pennsylvania. This program is designed to provide research training to persons interested in mammalian research projects. Applicants must have a bachelor's degree and show an interest in mammalian research. Applications should be submitted by 1 December 1989. Address your application to: Graduate Admissions Office, The University of Pennsylvania, Philadelphia, PA 19104-6006.

RESEARCH ASSOCIATE POSITION for a Ph.D. organic chemist with experience in peptide synthesis to work on synthesis and modification of neuroactive peptides in an ongoing research program in the pharmacology of the blood-brain barrier. Send applications and curriculum vitae to: Dr. Victor E. Shashoua, Ralph Lowell Laboratories, Harbor-UCLA Medical School, Torrance, CA 90602. Telephone: 310-217-6478. Fax: 310-217-7301.

RESIDENT MANAGER

PYMATUNING LABORATORY OF ECOLOGY UNIVERSITY OF PITTSBURGH

The University of Pittsburgh's Pymatuning Laboratory of Ecology, a non-mammalian resident manager. This professional staff position carries full fringe benefits. The Manager would be a year-round resident in Linesville, Pennsylvania, and have responsibility for routine management and operation of the Pymatuning Laboratory of Ecology research and teaching facility, and as a research technician collaborate. There would be an opportunity to teach and conduct ecological research projects. A graduate degree in ecology or a related field, or equivalent experience is required. Submit a letter of application, curriculum vitae, and names (with addresses and telephone numbers) of three references to: MKP7632, 172 Thackery Hall, University of Pittsburgh, Pittsburgh, Pennsylvania 15260.

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

X-RAY CRYSTALLOGRAPHER—Tenure-track assistant professorship to begin fall 1990. Candidate should have a strong record of research in the determination and functional interpretation of biomolecular structure. Position is associated with the Institute for Molecular Design, which offers access to modern area detector and graphics supercomputing facilities as well as extensive opportunities for collaboration. Send curriculum vitae, research plans, and three letters of recommendation to: J. Andrew McCammon, Department of Chemistry, University of Houston, Houston, TX 77204-5641. Equal Opportunity/Affirmative Action Employer.

REQUEST FOR PROPOSALS

PROPOSAL SOLICITATION FOR UNDERSEA RESEARCH

NOAA's National Undersea Research Center at Fairleigh Dickinson University (NURC-FDU) is soliciting proposals for undersea research. Research themes addressed by NURC-FDU, but are not limited to: global climatic change, effects of pollution on coastal environments, productivity of the oceans, and projects that address the biology and geology of the undersea environment. Address proposals to: NURC-FDU, 600 River Road, New Jersey 07980. Telephone: 201-358-3657. Fax: 201-799-1911.

FELLOWSHIPS

1998 MARKEY FELLOWSHIP PROGRAM

Applications are invited from investigators in the biological sciences and biomedical research communities for undersea research fellowships at the Mount Desert Island Biological Laboratory, an internationally renowned institute for comparative physiology and marine biology. Using vertebrate and invertebrate fauna from the Gulf of Maine, laboratory researchers pursue diverse interests including comparative physiology of the kidney, cell membrane transport, mechanisms of cell division, functional and molecular aspects of environmental toxicity. Preference is given to applicants who are several years beyond the Ph.D. or equivalent. Applicants must submit evidence of an independent research program but are still in relatively early phases of their research careers. The fellowships, sponsored by the Lucile P. Markey Trust, include laboratory space, housing, supplies, and other allowances depending on individual needs. Applications and instructions for the preparation of brief proposals may be obtained by contacting: Dr. Donald A. McCorminn, Mount Desert Island Biological Laboratory, 195 West Street, Bar Harbor, ME 04609. Deadline for completed applications is 15 October 1990.

SUMMER RESEARCH FELLOWSHIPS FOR UNDERGRADUATE FACULTY AND STUDENTS

The Mount Desert Island Biological Laboratory (MDIBL), with support from The Pew Charitable Trusts, has established a new program for undergraduate education to enhance scientific training in the biological sciences. Fellowships will provide research support for the summer of 1990 in two categories:

1) Faculty fellowship awards for teacher scientists with primary responsibilities at the undergraduate level. Applications must have an earned doctorate and be actively teaching biology at the undergraduate level.

2) Undergraduate fellowships for student trainees. Student applicants must have had a minimum of 1 year of biology and 1 year of chemistry. Applications from faculty-student pairs are encouraged. Recipients may work at the MDIBL for 1 to 4 months in collaboration with senior scientists or, in the case of faculty or faculty-student pairs, may choose to work independently. Funding will provide for housing, travel, and research costs as well as a summer stipend. The maximum faculty fellowship is $14,000 with up to $6,000 as a stipend. The maximum undergraduate fellowship is $6,900 with up to $2,400 as a stipend.

The Mount Desert Island Biological Laboratory is internationally recognized for its studies of marine species and its contributions to comparing physiology and bio- medicine. Deadline for completed applications is 15 December 1989. For more information and application materials, contact: Pew Fellowship Program, MDIBL, Salisbury Cove, ME 04672. Telephone: 207-288-3606.

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