POSITIONS OPEN

ASSISTANT PROFESSOR—ANATOMY

The Department of Surgery/Section of Anatomy at Yale University School of Medicine invites applications for two tenure-track positions at the level of assistant professor. Responsibilities include development of a strong independent research program and participation in the teaching of gross anatomy to medical students. Applicants should submit curriculum vitae, with a summary of present and future research interests by 15 April 1992 directly to: Dr. William B. Stewart, Department of Surgery, Section of Anatomy, Yale University School of Medicine, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer and all women and members of minority groups are encouraged to apply.

ANIMAL OR WILDLIFE ECLOGIST

POSITION AT YALE UNIVERSITY

The Yale University School of Forestry and Environmental Studies is seeking to appoint an ASSISTANT PROFESSOR of animal or wildlife ecology to teach and advise graduate students and to conduct original research. Teaching responsibilities include courses in wildlife ecology and population ecology. Candidates working with terrestrial vertebrates, and those interested in population and community ecology are especially encouraged to apply. A Ph.D. should be held in a discipline in which research and applications to natural resource management and conservation, and be willing to interact with a diverse set of colleagues in an interdisciplinary program.

Please send curriculum vitae; statement of research and teaching interests; the names, addresses, and telephone numbers of three referees; and up to four other examples of academic and professional work to: Professor Steven R. Beissinger, Chair, Animal or Wildlife Ecologist Search Committee, Yale University, School of Forestry and Environmental Studies, 203 Prospect Street, New Haven, CT 06511.

Deadline for receipt of applications is 15 February 1992 or until the position is filled. The position will be available 1 July 1992. For further information contact the Yale School of Forestry and Environmental Studies and the search committee above. Telephone: 203-432-5120 or 203-432-5076. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

ANATOMIST

SOUTHERN ILLINOIS UNIVERSITY

The Department of Anatomy invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. Qualifications must be a Ph.D. or M.D. degree, at least 2 years of postdoctoral experience with demonstrated ability to perform independent research, and experience in teaching the students. A strong science background and willingness to teach medical students in at least two anatomical disciplines. Special (but not exclusive) consideration will be given to those with research interests in cellular/molecular reproductive biology. Send curriculum vitae, names of at least three references, and a letter specifying teaching interests and research plans by 30 March 1992 to: Anatomy Search Committee, School of Medicine, Southern Illinois University, Carbondale, IL 62901.

Southern Illinois University at Carbondale is an Equal Opportunity/Affirmative Action Employer.

ANESTHESIOLOGIST

Department of Anesthesiology at the SUNY Health Science Center in Syracuse, New York, is recruiting faculty at the INSTRUCTOR, ASSISTANT AND ASSOCIATE PROFESSOR levels. Qualified individuals with a strong academic commitment in all types of anesthesia, critical care and pain management are sought. SUNY Health Science Center is a tertiary care center and provides clinical services also to the Syracuse Veterans Administration Hospital. Rank and responsibilities are commensurate with experience. Must be Board-certified or Board-eligible and possess a New York State medical license. Please send letter, curriculum vitae, names, addresses and phone numbers of three referees to: Dr. Enrico M. Camporesi, M.D., Professor and Chairman, Department of Anesthesiology, SUNY Health Science Center, 750 East Adams Street, Syracuse, NY 13210. SUNY Health Science Center of the State University of New York Health Science Center is an Equal Opportunity/Affirmative Action Employer.

Yeshiva University DEPARTMENT OF BIOLOGY

The small, selective liberal arts colleges of Yeshiva University seek a tenure-track ASSOCIATE/ASSOCIATE PROFESSOR of psychology. The teaching load is 12 hours/semester and may include general, developmental, cell and molecular biology and related laboratories. Qualifications: Ph.D., postdoctoral college teaching experience, and commitment to undergraduate teaching, and the ability to conduct an active independent research program. Send letter, curriculum vitae, and have three letters of recommendation sent to: Professor Carl Feit, Biology Search Committee, Yeshiva University, New York, NY 10033. Equal Opportunity Employer.

Yeshiva University DEPARTMENT OF BIOLOGY

The small, selective liberal arts colleges of Yeshiva University seek a tenure-track ASSOCIATE/ASSOCIATE PROFESSOR of psychology. The teaching load is 12 hours/semester and may include general, developmental, cell and molecular biology and related laboratories. Qualifications: Ph.D., postdoctoral college teaching experience, and commitment to undergraduate teaching, and the ability to conduct an active independent research program. Send letter, curriculum vitae, and have three letters of recommendation sent to: Professor Carl Feit, Biology Search Committee, Yeshiva University, New York, NY 10033. Equal Opportunity Employer.
BIOMETEOROLOGY POSITION AT YALE UNIVERSITY

Applications are invited for the position of ASSISTANT PROFESSOR of biometeorology in the School of Forestry and Environmental Studies at Yale University. The successful candidate will be expected to develop and sustain a research program in biometeorology addressing micro- and meso-scale phenomena. Interdisciplinary work (for example, studies of: ecosystem structure and function; atmospheric circulation and its impact on air pollutants; and global change) will be encouraged. The appointment will be associated with the faculty in the subjects of Geology and Physics, is strongly encouraged.

Please indicate your interest and sending an appropriate application: Dr. Kristiina Vogt, Chair, Appointments Committee, Yale University, School of Forestry and Environmental Studies, 370 Prospect Street, New Haven, CT 06511.

Deadline for receipt of applications is 15 February 1992 and applications are encouraged until position is filled. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

FACULTY POSITION IN CELLULAR AND MOLECULAR IMMUNOLOGY

The Department of Microbiology and Immunology invites applications for tenure-track positions in molecular immunology. Applicants must have a strong postdoctoral training record with significant research productivity in molecular biology and/or immunology and substantial evidence of excellence in research and teaching.

Candidate must have a Ph.D. in molecular biology. Applications from women and minorities are encouraged.

Applications must be received by 15 January 1992. Please indicate your interest and send a curriculum vitae, description of research interests and plans, and three letters of references to: Dr. Susan Rich, Search Committee, Department of Microbiology and Immunology, M925, Baylor College of Medicine, Houston, TX 77030.

ASSISTANT PROFESSOR

MOLECULAR IMMUNOLOGY

The Department of Microbiology and Immunology, Baylor College of Medicine, invites applications for tenure-track faculty positions in molecular immunology. Applicants must have a strong postdoctoral training record with significant research productivity in molecular biology and/or immunology and substantial evidence of excellence in research and teaching.

Candidate must have a Ph.D. in molecular biology. Applications from women and minorities are encouraged.

Applications must be received by 15 January 1992. Please indicate your interest and send a curriculum vitae, description of research interests and plans, and three letters of references to: Dr. Susan Rich, Search Committee, Department of Microbiology and Immunology, M925, Baylor College of Medicine, Houston, TX 77030.
POSTDOCTORAL RESEARCH SCIENTIST PROGRAM

The Upjohn Company, a recognized leader in pharmaceutical research and development, announces the 1992 Postdoctoral Research Scientist (PRS) Program for our Upjohn Laboratories Division. This Program reflects Upjohn's commitment to encourage creative and innovative science, to stimulate new scientific techniques and concepts and to provide an excellent training environment for our PRS scientists.

Applications are invited from new or recent doctorates in science, medicine and/or veterinary medicine having a strong record of academic and scientific excellence in research. Upjohn is looking for qualified postdoctoral candidates to conduct research in the following areas:

MOLECULAR AND CELL BIOLOGY RESEARCH (specialty code 100-PRS)

- Cloning unique protein kinases. Experience required in molecular biology techniques, cloning, DNA analysis, recombinant DNA methods.
- Structure and function relationship in prfA (secY) gene product and its role in protein secretion in E. Coli.
- Role of cyclins and cdc2 kinase in cell cycle regulation.
- Investigations into membrane structures and functions. Working experience in fluorescence and/or electron microscopy, and fluorescence polarization measurement of membrane fluidity will be helpful.
- Molecular genetics and pathogenesis of the anaerobic spirochete, Serpulisina hyodysenteriae. The applicant should be knowledgeable in molecular biology and have substantial experience and training in different aspects of vector construction, DNA sequencing, gene expression and regulation, site-directed mutageneses, and use of PCR techniques. Experience in microbial physiology and pathogenesis, particularly of spirochetes, is highly desirable.
- Membrane transport. Ideally, the individual should have experience in use of radio-labels, transport protein isolation/identification and voltage-clamp.

NEUROBIOLOGY (specialty code 101-PRS)

- Drug-neurotransmitter receptor interactions. The candidate should be a Neurobiologist with some molecular biology experience.
- The role of oxygen radicals in acute and chronic neurodegeneration models. The candidate should possess skills in neurochemical analyses.

EXPERIMENTAL PARASITOLOGY (specialty code 102-PRS)

- Receptor purification/cloning, preferably with experience in peptide receptors.
- Experimental physiology/biochemistry of transport. Of particular interest is experience in anion transport.

MEDIINAL CHEMISTRY RESEARCH (specialty code 200-PRS)

- Synthetic transformations on an important and highly complex natural product. The project also involves the isolation of related natural products and precursors from the same biological sources as the parent. In addition, work will be directed at the synthesis of simplified model compounds mimicking all or part of the parent.

The successful applicant will be skillful in all aspects of synthetic organic chemistry, particularly in the transformation and manipulation of complex, highly functionalized materials.

PHYSICAL AND ANALYTICAL CHEMISTRY (specialty code 201-PRS)

- Research opportunities in applying material science approaches to describe the impact of residual water and temperature on the physical properties of amorphous protein powders and the subsequent stability of the protein in that amorphous matrix.
- Mass spectrometry. Knowledge of electrospray ionization technique and MS/MS would be an asset. Familiarity with protein and nucleotide chemistry, especially knowledge of enzymatic and chemical degradation of proteins would be desirable. Familiarity with computer system used in MS will be an asset.

Appointments are for one year, renewable for a second year. The Upjohn PRS Program is designed to provide a top-quality research experience and the opportunity to publish scientific results with an excellent salary and benefits package offered. Upjohn laboratories offer a stimulating, multi-disciplinary research environment at our modern facilities located in Kalamazoo, a southwestern Michigan community located midway between Chicago and Detroit. Our region provides an outstanding mix of cultural and recreational pursuits and a reasonable housing cost market. Qualified candidates are invited to forward their curriculum vitae and cover letters describing education, research experiences, publications, interests, objectives and availability dates to:

THE UPJOHN COMPANY
CORPORATE RECRUITING
POSTDOCTORAL RESEARCH SCIENTIST PROGRAM
7000 PORTAGE ROAD
KALAMAZOO, MI 49001-0199

Please refer to one of the above specialty codes in your cover letter. A number of PRS positions are currently open with most appointments being decided by mid-year. We are an Equal Opportunity Employer M/F.

OUR COMMITMENT TO SCIENTIFIC EXCELLENCE CONTINUES...
POSITIONS OPEN

RESOURCE POLICY POSITION
AT YALE UNIVERSITY

The Yale University School of Forestry and Environmental Studies is seeking a tenure-track faculty member in the area of resource policy at the ASSISTANT OR ASSOCIATE PROFESSOR level. Appropriate candidates must have a terminal degree in economics, environmental science, or a related field, and a record of research and publication in matters relating to the formulation and implementation of resource policy. An interest in issues concerning natural resource conservation and management, or formulation and implementation of international resource policy, is desired. Candidates can be trained in a variety of social science and environmental disciplines, although a political science background is preferred.

Please send curriculum vitae, statement of research and teaching interests, the names, addresses, and telephone numbers of three references; and reprints and other examples of academic and professional work to: Professor Stephen R. Kellert, Chair, Resource Policy Search Committee, Yale University, School of Forestry and Environmental Studies, 205 Prospect Street, New Haven, CT 06511.

Deadline for receipt of applications is 15 February 1992 or until suitable candidates are found. The position will be available 1 July 1992. For further information about the Yale School of Forestry and Environmental Studies and the position described above, telephone: 203-432-5114 or 203-432-5076. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

FACULTY POSITION
NEUROBIOLOGY

The Vollum Institute invites applications for a faculty position at the ASSISTANT, ASSOCIATE OR FULL PROFESSOR level in the field of neurobiology. We are especially interested in candidates using biological/physiological approaches to understanding neuronal regulation, structure or function at the molecular and cellular level, but the quality of the research program and its relationship to existing strengths will be the most important considerations. Persons interested in this appointment should submit curriculum vitae and statement of research interests to: Richard D. Gordon, M.D., Chairman, Vollum Institute, O-474, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201-3098. An Affirmative Action/Equal Opportunity Employer.

COLUMBIA UNIVERSITY
DEPARTMENT OF OPHTHALMOLOGY
PROFESSOR OF MOLECULAR BIOLOGY
(OPHTHALMOLOGY) WITH TENURE

The department is seeking an individual with a strong background in the field of molecular genetics to develop a laboratory in research with a significant amount of time researching the genetic aspects of glaucoma. Candidates must provide evidence of significant research accomplishment and potential to establish an independent, nationally recognized research program. Applicants should submit recent curriculum vitae, list of publications, names and addresses of three references, and a one-page summary of research interests to: Anthony S. Priscilla, M.D., Chairman, Department of Ophthalmology, Edward S. Harkness Eye Institute, 635 West 165th Street, New York, NY 10032. Columbia University takes Affirmative Action to ensure Equal Opportunity.

NORTHWESTERN UNIVERSITY
CHICAGO, ILLINOIS

SOLOSY-ARTHRITIS
RESEARCH SOCIETY CHAIR

The Division of Arthritis-Connective Tissue Diseases is seeking to fill an endowed position with an accomplished investigator. We are seeking a Ph.D. or M.D. with interest in a disease area having a significant amount of time spent in research and clinical activity. The individual should qualify at the rank of a SENIOR ASSOCIATE or FULL PROFESSOR. The position offers an opportunity to collaborate with basic and clinical scientists in an exciting environment. If interested, please send curriculum vitae, a statement of research interests and the names of three references to: Richard M. Gelber, M.D., Department of Medicine, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
NEUROSCIENCE

The Department of Biology at Georgia State University invites applications for positions in neuroscience, particularly in areas of research at the level of the ASSISTANT or ASSOCIATE PROFESSOR. Appointment will start September 1992. Research interest may include all areas of neuroscience, including neuropharmacology, genetics, and development. Preference is given to individuals with demonstrated potential for the science. Responsibilities include participation in research and teaching in graduate and undergraduate programs. Applicants at the assistant level must have demonstrated research potential through postdoctoral experience and publication record; applicants at the associate level must have a record of extramural funding. Applications, including curriculum vitae, a list of publications, and three letters of support should be sent to: Dr. Priscilla A. Schaffer, Chair, Search Committee, Georgia State University, P.O. Box 4010, Atlanta, GA 30302-4010. Deadline for receipt of applications is 15 February 1992. Salary will be commensurate with qualifications. Georgia State University is an equal opportunity/affirmative action employer.

NATURAL RESOURCE ECONOMIST
POSITION AT YALE UNIVERSITY

The Yale University School of Forestry and Environmental Studies is seeking to appoint an ASSISTANT or ASSOCIATE PROFESSOR of natural resource economics to teach and advise graduate students and to conduct original research. Applicants must have background training either in economics, agricultural economics or forest economics are desirable. The individual is expected to develop a strong research agenda, to be willing to interact with a diverse set of colleagues in an interdisciplinary program. The applicant should have an active research program in the following areas: forests, wildlife, energy, water fisheries, and pollution.

Please send curriculum vitae; statement of research and teaching interests, the names, addresses, and telephone numbers of three references; and reprints and other examples of academic and professional work to: Professor Robert G. Wayne, Yale School of Forestry Economics Search Committee, Yale University, School of Forestry and Environmental Studies, 360 Prospect Street, New Haven, CT 06511.

Deadline for receipt of applications is 15 February 1992 or until suitable candidates are found. The position will be available 1 July 1992. For further information about the Yale School of Forestry and Environmental Studies and the position described above, telephone: 203-432-5076 or 203-432-5076. Yale University is an Equal Opportunity/Affirmative Action Employer. Women and minority group members are encouraged to apply.

PROFESSOR OF MEDICINE
HARVARD MEDICAL SCHOOL
DANA-FARBER CANCER INSTITUTE

Harvard Medical School and the Dana-Farber Cancer Institute invite applications for a position at the level of Professor of Medicine to serve as Chief of the Laboratory of Immunology, Dana-Farber Cancer Institute. We seek an individual whose primary interest is in the application of techniques of molecular immunology to the study of fundamental problems of mechanism of action. Experience in the analysis of the structure and function of surface molecules of T-lymphocytes, and in T-lymphocyte activation and differentiation at the biochemical and molecular level is required. Expertise in the interaction of viruses pathogenic for T-lymphocytes with cell surface structures is desirable. Applicants should submit curriculum vitae, bibliography and statement of research interests to: Dr. K. Bloch, M.D., Clinical Immunology and Allergy Units, Massachusetts General Hospital, 450 Cedar Street, Boston, MA 02114. Harvard Medical School and the Dana-Farber Cancer Institute are Equal Opportunity/Affirmative Action Employers and encourage the applications of qualified women and minority candidates.

The Swiss Federal Institute of Technology and the University of Zurich are accepting applications for a joint faculty position.

PROFESSOR OF GEOLOGY

We are seeking an internationally recognized creative scientist to lead a geo-dynamics-TECTONICS-geological structure, volutionary group. Applications are encouraged from candidates with interests in physical processes of rock deformation, tectonics and sediments studied by field as well as experimental or theoretical means. Research should be directed towards developing models for the evolution of mountain ranges such as the European Alps and of extensional terrains.

Emphasis is placed on skill and enthusiasm in fieldwork. Collaboration with research groups in petroleum, geology, and sedimentology is encouraged. Teaching responsibilities include graduate courses as well as basic courses in tectonics, structural geology and field courses. Applicants should submit curriculum vitae, a statement of research interests, a list of publications, and a publication list and a statement of research interests by 31 March 1992 to: The President of ETH Zurich, Professor Dr. J. P. Rice, Resource Management and Geo-Science, 8092 Zurich. Applications from female scientists are specifically encouraged.

YOUR PERSONNEL PLACEMENT AD

in our line classified columns can be boxed for higher visibility.

Call SCIENCE at 203-326-6555 for details.
RESEARCH SCIENTISTS

Bristol-Myers Squibb, a worldwide leader in the development and marketing of sophisticated pharmaceutical, medical care, consumer and nutritional products, has exceptional opportunities for Research Scientists at the Pharmaceutical Research Institute in Princeton, NJ.

Molecular Biology

This individual should have a BS/MS degree, extensive experience in tissue culture techniques and overall ability to manage a tissue culture unit. Must be highly dedicated with a strong commitment to tissue culture research. The incumbent will be part of a very competitive 15-member basic research unit involved in studies aimed at understanding the mechanism of action of various types of oncogenes such as growth factor receptors and tyrosine protein kinases. Previous experience in embryonic stem cells and/or neuronal cell culture techniques will be an asset. Please reply to Dept. 271A-BM.

Metabolic Diseases

This position will participate in a new project studying vascular wall biology and inflammatory mechanisms in atherosclerosis with particular focus on LDL oxidative modification and monocyte/macrophage involvement. This will entail the use of cellular, biochemical and molecular biology experimental approaches to develop new assays and methods to study atherosclerosis. Requires BS/MS degree and 2-4 years experience. Please reply to Dept. 271B-AR.

Chemistry

(2 Positions)

- The successful candidate will be responsible for performing research involving the synthesis, purification and characterization of organic compounds, primarily peptide mimetics of biological interest. This will require the application of advanced laboratory techniques for: a) performing the synthesis of compounds under a wide variety of reaction conditions. b) purification of intermediate and final compounds using various chromatographic techniques such as HPLC, TLC, LC flash, LC, etc. c) operation and maintenance of specialized laboratory instruments and proper interpretation of experimental data. d) documenting work in the form of written reports and chemical transmission records. Must be able to seek out information necessary to perform new chemical manipulations and interpret/report laboratory observations to supervisor and research group. Requires BS or MS degree in chemistry with 4-8 years experience in organic synthesis. Please reply to Dept. 271C-BM.

- The successful candidate will be responsible for performing synthetic chemical research and solid phase peptide synthesis involving the design and synthesis of pharmacologically active agents. The emphasis will be on peptides and peptide mimetics. This position will involve the application of specialized scientific knowledge and advanced laboratory techniques to problems in organic/medicinal chemistry. The exercise of creativity, judgment and decisiveness will be necessary to achieve the goal of creating new drug candidates. A PhD in organic or medicinal chemistry and 3-5 years of experience in drug discovery are required. Please reply to Dept. 271D-BM.

Bristol-Myers Squibb offers the advantages of sustained career growth, highly competitive salaries and extensive benefits. Please send resume with salary requirements and appropriate Department Code to: Bristol-Myers Squibb, Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543-4000. Equal Opportunity Employer, M/F/D/V.

Career Opportunities for Research Scientists

Oncogene Science is expanding its basic drug discovery Research and Development program. Oncogene Science combines state-of-the-art molecular biology with sophisticated laboratory automation to lead the way in the discovery of new small molecule and recombinant biological therapeutics for the treatment of cancer and cardiovascular disease. Our gene expression and cancer biology programs have several positions available at both entry and senior levels for qualified candidates in the following areas:

Molecular Biology

Several positions are available for candidates with Ph.D.s in Molecular Biology or related fields to join our drug discovery teams. A background in regulation of gene transcription, cardiovascular disease or cancer research is preferred.

Cell Biology

The cancer research program is currently seeking a Ph.D. cell biologist to join a multidisciplinary drug discovery team. The successful candidate will be responsible for development of cell based screens, follow-up of lead compounds and determination of mechanism of action. A broad background in cell biology is required with research experience in cancer cell biology preferred.

Protein Biochemistry

We are currently seeking a protein biochemist for structure-function experiments, expression and purification of transforming growth factor beta 3 (TGF-B3). The ideal applicant will have a background in protein biochemistry and experience in recombinant expression techniques. Good written and oral communication skills are required. This is an excellent opportunity to join a dynamic team involved in development of this bi-functional growth regulator.

Drug Discovery

We are currently seeking Ph.D.s with 2+ years of postdoctoral research experience in pharmacology, medicinal chemistry, biochemistry, or a related discipline to head small teams of scientists involved in discovery programs targeting the role of specific genes in various disease states. Experience in the Pharmaceutical industry and good computing skills would be assets, but are not essential requirements.

Postdoctoral Positions

Oncogene Science is initiating a postdoctoral research program to investigate the molecular mechanisms of gene expression. Recent Ph.D.s with a background in the regulation of gene expression are encouraged to apply. Oncogene Science is strategically located on Long Island with ready access to major academic institutions in the New York City metropolitan area.

Oncogene Science offers an excellent compensation and benefits package. Qualified candidates should send their resumes, including a list of publications and references to: Oncogene Science, Inc., Human Resources Department, 106 Charles Lindbergh Blvd., Uniondale, New York 11553; Attn: CO. An Equal Opportunity Employer.
We resume our grams attract sense. EqualOpportunityEmployer. Biogencurrentlydirectsitsresearchanddevelopmentinto biotechnologyindustry. Strong are compensation and retain the finest applications. In addition, five products being sold by its engaged in pharmaceuticals. As a visiting scientist, we would appreciate receiving by 31 March 1992 to:

Dr. Kenneth J. Marinas
Chairman
Program in Molecular Biology
Sloan-Kettering Institute
Memorial Sloan-Kettering Cancer Center
1275 York Avenue
New York, NY 10021

NSF's Division of Environmental Biology (formerly Biotic Systems and Resources) is seeking qualified applicants for PROGRAM DIRECTOR positions in fiscal year 1993. The incumbents to these positions will administer grant programs in support of research in the following areas: ecology, systematic biology, population biology and ecosystem studies. These positions will be filled on a 1- or 2-year visiting scientist/temporary basis and are excepted from the competitive civil service.

The per annum salary range is $54,607 to $81,500. The visiting scientist receives a leave of absence from his/her employer and salary is set in accordance with NSF's Visiting Scientist Program. Applicants must have a Ph.D. or equivalent experience. In addition, six or more years of successful research experience beyond the Ph.D. is required. Some administrative experience is also desired. Applications are also being accepted for future vacancies for these positions. Applicants should submit a Standard Form 171, Applications for Federal Employment, or résumé to: National Science Foundation, Division of Human Resource Management, Room 208, 1800 G Street, N.W., Washington, DC 20550. Attention: Catherine Handle. Telephone: 202-357-9681 for further information about the NSF application process, or 202-357-7832 for technical details on these specific positions. Hearing impaired should call 202-357-7492. NSF is an Equal Opportunity Employer.

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POSITIONS OPEN

CHAIRMAN FOR THE DEPARTMENT OF IMMUNOLOGY

The Duke University School of Medicine invites nominations and applications for the position of chairman of the new Department of Immunology at Duke University. We are seeking an individual with an international reputation in immunology, with expertise in cellular and molecular immunology. Applicants should have a record of distinguished accomplishment and continuing commitment to excellence in teaching, research, and service. Applicants should be interested in the development of the junior faculty and the commitment to the education of minority students. Interested applicants should send curriculum vitae, description of research interests, and names of three references to: Dr. Barton F. Haynes, Chair, Department of Immunology Search Committee, Box 3258, Duke University Medical Center, Durham, NC 27710. Committee will begin to review applications 1 March 1992. Duke University is an Equal Opportunity/Affirmative Action employer.

CHAIRMAN

DEPARTMENT OF BIOCHEMISTRY

The School of Medicine of the University of Puerto Rico is seeking a chairman for the Department of Biochemistry. Potential candidates should have a demonstrated commitment to excellence in teaching and research in biochemistry. Salary range is $50,000 to $95,000. The chairman will have the opportunity to fill one postdoctoral and at least two tenure-track faculty positions. Applicants should send curriculum vitae, statement of research interests and names of three references to: Susan Opava-Stitzer, Ph.D., Search Committee, Department of Physiology, P.O. Box 365067, University of Puerto Rico, School of Medicine, San Juan, PR 00936–5067. Women and minorities are encouraged to apply.

CURATOR (Museum Specialist 3-C) at New Mexico Museum of Natural History and Science: Oversees museum collections in modern and paleo-botany, conduct research, and work with exhibits and education departments. Individuals with Ph.D. encouraged to apply. Prefer candidates with publications in plant systematics emphasizing Southwestern flora and in biogeography/community ecology, demonstrated experience in working successfully in museum public programs, and record of successful external funding. Start date: 1 August 1992. Salary range $28,000 to $39,500. For application details telephone: Personnel Officer, Office of Cultural Affairs, State of New Mexico at 505-827-7355. Deadline for receipt of complete applications 24 February 1992. The State of New Mexico is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT HEAD, TOXICOLOGY

Manage and perform constant regulatory toxicity studies of new pharmaceuticals, chemicals, and pesticides in vivo. Studies must meet regulations governing safety testing of potential products. Must have Ph.D. in toxicology and 5 to 8 years of experience as a toxicologist. Prior experience in toxicology contract research laboratory and working with pharmaceutical/chemical companies and government regulatory authorities is desired. Suburban Maryland location. Mail résumé or curriculum vitae to: VTS, P.O. Box 326, Middletown, MD 21769.

STOCKTON STATE COLLEGE

DIRECTOR, ACADEMIC LABORATORY AND FIELD FACILITIES. Appointment effective 1 July 1992. Supervises laboratory and field facilities in all science disciplines; oversees health, safety and other regulatory compliance; supervises purchasing, monitors budgets, and keeps inventories; directs professional and student staff members. Ph.D. in chemistry and management experience preferred; master's and academic laboratory management experience considered. Salary: $40,000 to $46,720. Salary may be higher depending on qualifications, experience and increases in the New Jersey Higher Education Compensation Plan. Screening begins immediately. Send letter of application, résumé and three letters of reference to: Dr. Barbara Byrne, Dean, Natural Sciences and Mathematics, Stockton State College, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R202092.

MOLECULAR BIOLOGY RESOURCE

RESEARCH DIVISION

THE UNIVERSITY OF TEXAS M.D. ANDERSON CANCER CENTER

The University of Texas M.D. Anderson Cancer Center, one of the world's leading cancer research centers, has an outstanding opportunity at our research facility located in Smithville, Texas.

RESEARCH SCIENTIST

Reporting to the Associate Director of Science Park—Research Division, you will be responsible for developing and directing a new resource center in molecular biology and related technical services. Requirements include a PhD in Biology or Biochemistry. The successful candidate will bring experience not only in molecular biology or biochemistry, but also in computer technology and equipment. The candidate should have extensive experience at the graduate or postdoctoral level in one or more of the following areas: image analysis, densitometry, DNA sequence analysis. Qualified applicants should send a CV and a list of references.

RESEARCH ASSISTANT II

Reporting to the Director of the Molecular Biology Core, you will be responsible for providing technical support and training for users of computerized image analysis and densitometry equipment. The successful applicant will combine experience and training in molecular biology or biochemistry with experience in computer applications. Experience in image analysis, densitometry, DNA sequence analysis and/or oligonucleotide synthesis would be highly desirable. Alternatively, extensive experience in network interconnectivity and/or scientific programming applications would be equally desirable. Requirements include a masters in Biology, Biochemistry, or related field; or a Bachelors with two years experience. Qualified candidates should send a CV or resume and a list of references.

Send resume and transcript to:
Personnel, Science Park-Research Division
P.O. Box 389, Smithville, TX 78957.
The University of Texas M.D. Anderson Cancer Center is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS

Massachusetts General Hospital
Harvard Medical School
Cutaneous Biology Research Center

Applications are invited for several positions at the Assistant and Associate Professor level to join the Cutaneous Biology Research Center (CBRC), which was recently established to perform basic research in areas relevant to the understanding of the biology of the skin. Applicants must have a Ph.D. and/or MD degree and relevant postdoctoral experience in either molecular, cellular or developmental biology. Only applicants with a strong research record and the potential to develop extramurally supported research programs will be considered. Individuals with a demonstrated ability to develop imaginative approaches to important biological questions are particularly encouraged to apply. The CBRC occupies 45,000 square feet of fully equipped laboratory space in a new multidisciplinary research facility. Generous start-up funds are available.

Interested individuals should send curriculum vitae, reprints, a statement of research and future directions, along with the names, addresses and telephone numbers of three references to:

Paul F. Goetchick, Ph.D.
Chair, Faculty Search Committee
Cutaneous Biology Research Center
Massachusetts General Hospital—East
Building 149 13th Street
Charlestown, MA 02129

The MGH/Harvard Cutaneous Biology Research Center is a committed Equal Opportunity/Affirmative Action Employer. Minorities, women, handicapped and veterans are encouraged to apply.
**POSITIONS OPEN**

**DIRECTOR OF SURGICAL RESEARCH**

The Department of Surgery at Tulane University School of Medicine seeks a surgical investigator to direct its Division of Surgical Research. The M.D. degree, the Ph.D. degree or both are essential and should be obtained in managed graduate research projects and a clear record of productivity in basic research as well as clinical research is highly desirable. Subsequent to the skill set of: Lewis-flint, M.D., Chairman, Department of Surgery, 1430 Tulane Avenue, New Orleans, LA 70112. Tulane University is an Equal Opportunity/Affirmative Action Employer and applications from women and minority group members are especially encouraged.

**LABORATORY DIRECTOR**

Director, Laboratory of Molecular Biology—A Ph.D.-level molecular geneticist is sought to direct product development in gene characterization technology for BIOS Laboratories. BIOS is actively involved in producing products, and performing research in the human genetics area. Candidate must have experience in genetic analysis techniques including: PCR, DNA sequencing, library construction and screening, physical and genetic mapping, and Southern and Northern analysis. Experience at another new product development company is important. Candidate must have knowledge of grant preparation, and be interested in participating in business decisions. Send resume to: Personnel Manager, BIOS Laboratories, 291 Whitney Avenue, New Haven, CT 06511.

**DEPUTY DIRECTOR**

Office of Biologic Research

The Food and Drug Administration is recruiting for Deputy Director, Office of Biologic Research, Center for Biologic Evaluation and Research, Bethesda, Maryland. The position is in the Senior Executive Service with a salary range of $87,000 to $100,500. The Deputy Director shares responsibility with the Director for scientific research and regulatory review of biological products and devices, and shall, to the extent of his or her ability, coordinate and direct the planning, development, and administration of the Center's biologic research program. Details include: 970-751-9516 or 970-751-9512.

**POSITIONS OPEN**

**CANCER CENTER DIRECTOR**

Bowman Gray School of Medicine of Wake Forest University seeks a leading physician-scientist to direct its Comprehensive Cancer Center. A strong clinical program, a comprehensive basic science program, and core laboratories are prominent features. Minority and women candidates are encouraged. Send resume and other application materials to: Director, Cancer Center. Reply: to: William R. Hazzard, M.D., Medical Center Boulevard, Winston-Salem, NC 27157-1052.

**DEPARTMENT HEAD/POLYPEPTIDES**

Nichols Institute's Reference Facility, a leading innovator in laboratory technology, is seeking a department head. Candidates must have a Ph.D. in biological sciences with prior experience with forensic immunology, research experience in protein chemistry and chemolimino- 

**STOCKTON STATE COLLEGE**

**MARINE SCIENCE LABORATORY PROGRAM ASSISTANT**

Full-time position at field station operator available April 1992. Assist in teaching marine science courses; assist with student and faculty research projects; train and supervise marine naturalists; manage equipment; and conduct marine science activities. Must have a bachelor's degree in biology, marine science or a related area. Send resume to: S. O. Charette, President, Stockton State College, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R.202092.

**THE UNIVERSITY OF IOWA**

Vice President for Research

The University of Iowa seeks nominations and applications for the position of Vice President for Research. Reporting directly to the President, the Vice President for Research is a member of the President's Senior Management Group and oversees all research activities of the University. The successful candidate will possess the following qualifications: have a Ph.D. or equivalent degree in a scientific discipline, and have the ability to effectively communicate and work with a variety of people; have a proven record of productive and innovative research and its application; have a strong commitment to excellence in teaching; have strong administrative and management skills; have the ability to work with and lead others; have a broad understanding of the issues facing today's research environment; and have the ability to manage resources effectively. The University of Iowa is committed to equal opportunity and affirmative action in its employment policies. Women and minorities are encouraged to apply. Send nominations or applications to: University of Iowa, Vice President for Research, 400 E. . The successful candidate will be expected to develop an internationally competitive and externally funded research program in molecular genetics that exploits the special attributes of the Hawaiian marine environment. The successful candidate will prepare an application to the Hawaii Institute of Marine Biology or on the Manoa campus and will have full access to the molecular biology core facility. Applications are due in the academic department and academic department are anticipated. The successful candidate will be expected to recruit and support graduate students, and be encouraged to teach a graduate or undergraduate course in their specialty. Salary and rank will be commensurate with qualifications and experience. (Send Associate Professor's range, $51,816; Researcher, $56,048). There will be continuous screening until the position is filled. The first screening date for applications is 15 March 1992.

**VICE CHAIRPERSON**

The Department of Pathology at Wayne State University invites applications for a Vice Chairperson to direct an experimental pathological research section. The position includes teaching pathobiology residents, directing a graduate program and involvement with second-year medical students organizing the medical research students program. The position will also be charged with building a cancer-related research group. Wayne State University Medical Center is a comprehensive cancer center, which is comprised of six hospitals with 45 pathologists and 20 Ph.D.'s. Interested applicants should submit their curriculum vitae and references to: John D. Cristman, M.D., Professor and Chair, Department of Pathology, 7399 John R, Detroit, MI 48210. An Equal Opportunity/Affirmative Action Employer, M/F.

**ANALYTICAL/Organic/PharmacologiCal Analysis, Temporary, Non-Tenure Track Position available at the University of Hawaii Research unit of the School of Oceanography. Submit curriculum vitae and a statement of research interests by 15 March 1992 to: UNIVERSITY OF HAWAII RESEARCH UNIT, DEPARTMENT OF MARINE BIOLOGICAL SCIENCE, 2540 MAUNA KEA, HONOLULU, HAWAII 96822.
**The Hong Kong Institute of Biotechnology**  
**Director**

The Institute  
The Hong Kong Institute of Biotechnology (HKIB), a non-profit organization in Hong Kong since 1989 and located at The Chinese University of Hong Kong, is seeking a Director for the Institute. The mission of HKIB is to assist in the development of a biotechnology industry for Hong Kong through providing downstream R&D capabilities in support of product commercializations.

**The Directorship**
The Director will be a full-time appointment with residence in Hong Kong. The successful candidate should be a senior, internationally recognized scientist in the field of biotechnology, with academic qualifications equivalent to those normally expected of a full professor at a major university. Additionally, it is highly desirable for the new Director to be experienced in the development or commercialization of biotechnology-based products.

**Remuneration and Benefits**
This is a fixed term renewable contract appointment. The HKIB offers a competitive remuneration package. Salary will be commensurate with qualifications and experience, with a minimum of HK$685,620 per annum (exchange rate: US$1 = HK$7.8; £1 = HK$13.9). Benefits include 21 days of annual leave, a contract-end gratuity (25% of total basic salary), medical and dental care, education allowances for children, housing benefit (with appointee contributing 7.5% of salary towards the provision of housing) and leave passage benefits for appointee and eligible dependents.

**Application Procedure**
Applicants should submit a curriculum vitae with the names and addresses of at least 3 referees to Professor Charles K. Kao, Chairman, HKIB Directorship Search Committee, The Chinese University of Hong Kong, Shatin, New Territories, Hong Kong. The closing date for applications is March 1, 1992.

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**College of Graduate Studies**  
**Medical University of South Carolina**  
**Charleston, South Carolina**

**Chair**
**Department of Biostatistics, Epidemiology and Systems Science**

The Medical University of South Carolina is seeking applications and nominations for the position of Chairperson of the Department of Biostatistics, Epidemiology and Systems Science. Candidates must have the M.D., Ph.D., or Dr.P.H. degree with documented scholarly activities of excellence in their field and significant administrative experience.

Please send nominations or letters of application with resumes to:

James F. Spann, M.D., Chairman  
Search Committee for the Chair of Biostatistics, Epidemiology and Systems Science  
Cardiology Division  
Medical University of South Carolina  
171 Ashley Avenue  
Charleston, South Carolina 29425

Applications and nominations can be reviewed beginning immediately and the search will continue until a suitable candidate is selected.

The Medical University of South Carolina is an Equal Opportunity Employer.

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**A TIME FOR ACHIEVEMENT**

The recent opening of the new Glaxo Inc. Girolami Research Institute, located at our headquarters site in Research Triangle Park, NC, represents Glaxo's continued commitment to the discovery of medicines for the treatment of serious diseases of mankind. Our expanding Immunology Department will give individuals the opportunity to contribute to projects involving immunoregulation, gene regulation and cell activation. The following three positions are now available.

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**SENIOR SCIENTIST**

A position is available within the Immunology Group for a Senior Scientist with extensive experience in all aspects of cell sorting, phenotyping and functional analysis of fluorescently labelled cells. The ideal candidate will be enthusiastic, communicative and capable of interacting with different project groups to develop and implement novel approaches to drug discovery research in the areas of inflammation/immunology, cancer, and metabolic disorders. Candidate will use systems such as: Becton Dickinson FACStar Plus™ and FACScan™.

Background should include a B.S., M.S., or Ph.D. in biological discipline and extensive experience in cell sorting and analysis. Please refer to Job # 9128-SS-SC on all resumes.

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**ASSOCIATE SCIENTIST**

Selected individual will play an important role in the exciting and growing program within the Gene Regulation Group. Candidate will be responsible for investigating the role of nuclear factors in gene expression and cell activation. Duties will include: general molecular biology, transcriptional assays, study of promoter function, and the analysis of nuclear factor proteins.

Background must include a B.S./M.S. in Molecular Biology, or a related discipline, with a minimum of 2-4 years laboratory experience. Experience in cell culture, gel shift and DNA footprinting analysis, preparation of nuclear and cytoplasmic cell extracts, and the study of DNA binding factors are required. Please refer to Job # 9128-AS-SC on all resumes.

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**POST-DOCTORAL FELLOW**

Working within the Gene Regulation Group, selected individual will provide basic research in the area of lymphocyte activation and apoptosis (cell death). Research goals will include the identification of death-related genes and proteins and the analysis of their role in pathways leading to cellular activation, differentiation and cell death.

Background must include a Ph.D. in Molecular Biology, Immunology or a related discipline, with previous experience in molecular biology techniques and cell culture. Additional experience in the production of subtraction cDNA libraries is helpful.

Please refer to Job # 9128-PD-SC on all resumes.

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

Send your resume, INDICATING THE CORRESPONDING JOB # and salary history, to: Human Resources Department, Glaxo Inc., P.O. Box 13395, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/HIV.
We'll Help You Build A New Lab

Let the free Science product information service put you in touch with the vendors whose products you will need.

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

Write to:

SCIENCE Magazine
New Lab Service Department
1333 H Street, N.W.,
Washington, DC 20005

POsITIONS OPEN

ASSISTANT STAFF POSITION
DIGESTIVE DISEASE RESEARCH
THE CLEVELAND CLINIC FOUNDATION

Two new positions at the Assistant Staff (Professor) level are available in the Section of Digestive Disease Research, Research Institute, Cleveland Clinic Foundation. Positions are targeted for exploration of basic investigation in inflammatory bowel disease. The candidates must have a Ph.D. or M.D. degree and potential for an independent career in research. The area of expertise can include molecular biology, cell biology, immunology, biochemistry, etc., but they must be interested in the gastrointestinal tract as a target organ and/or inflammation as a mechanism of disease. Package includes laboratory space, equipment, supplies, and salary for the staff and technician/fellows, and it is negotiable depending on qualifications. Interested individuals should send curriculum vitae and correspondence to:

Dr. Claudio Fiocchi
Section of Digestive Disease Research
Research Institute
The Cleveland Clinic Foundation
9500 Euclid Avenue, Cleveland, OH 44195

The Cleveland Clinic Foundation provides a smoke-free environment and is an Equal Opportunity Employer.

MOLECULAR BIOLOGY OF THE KIDNEY
TULANE UNIVERSITY MEDICAL SCHOOL

The Department of Medicine, Section of Nephrology, is seeking a Ph.D. FACULTY MEMBER in the area of the molecular biology of the kidney. Area of interest can include transport, hormonal regulation of gene expression, metabolism or hypertensive-related research. Associate professor/professor level individual with track record of publications and funding preferred. Interested applicants should send curriculum vitae, statement of research interests and names of three references to: Jules L. Puechett, M.D., Chairman, Department of Medicine, 1430 Tulane Avenue, New Orleans, LA 70112-2699. Tulane University is an Affirmative Action/Equal Opportunity Employer.

BIOLOGIST, SYSTEMATIC. One-year position at University of Minnesota, Morris, beginning 16 September 1992. A.B.D. in organismic zoology/biology and 1 year of teaching experience required (graduate teaching experience acceptable). Ph.D. preferred. Duties include teaching plant and animal diversity and invertebrate zoology or other systematics/organismic course. Send letter of application, resume, transcript, and three letters of reference by 6 March 1992 to: Dr. M. S. Koehrt, Chair, Division of Science and Mathematics, University of Minnesota, Morris, Morris, MN 56267. The University of Minnesota is an Equal Opportunity Educator and Employer.

PHYSIOLOGIST. Colorado College invites applications for a 1-year position in animal physiology for the 1992-93 academic year. Courses to be taught include introductory vertebrate zoology, animal cell physiology, and vertebrate physiology. A Ph.D. is required. Engaging students in a research project is encouraged. The college seeks candidates who understand the perspectives of women and minorities in the curriculum and invites candidates to identify their strengths or experiences in these areas. Colorado College is a private, undergraduate, liberal arts institution enrolling 1850 students. Applicants should send a letter describing background and teaching interests, curriculum vitae, and three letters of recommendation to: Ronald L. Capen, Chair, Department of Biology, The Colorado College, Colorado Springs, CO 80933, telephone: 719-389-5400. Applications must be postmarked by 6 March 1992. An Equal Opportunity Employer.

RESEARCH INSTRUCTOR IN RHEUMATOLOGY. Work independently with direction of the cellular and molecular biology director in the following areas: generation and purification of monoclonal antibodies, peptide synthesis, PAGE: analysis of membrane proteins, radioiodination, degradation of membrane proteins, and their association. Experience in gene expression and sequencing of peptide fragments of membrane proteins is required. Experience in designing and conducting research with human cells and preclinical models is a plus. Position involves clinical correlations. Responsibilities include designing and executing research projects, working with established protocols, and communicating findings to the scientific community. Experience in research design, data analysis, and presentation of results is needed. This is a 12-month appointment. Contact Sandra T. Barnes, Alabama State Employment Service, 3440 Third Avenue South, Birmingham, AL 35222, Job Order #AL06826366.

RESEARCH INSTRUCTOR in the area of molecular biology to teach laboratory methodology and techniques. Develop and design experimental projects on assigned science topics. Interpret data applied to the project. Requires Ph.D. degree in molecular biology, biochemistry, or directly related field and 2 years of teaching/research experience in gene expression and immunology. Full-time position. Please submit cover letter, curriculum vitae, summary of proposed research and goals, and references to: Dr. Donald C. Smith, Department of Microbiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9048. Equal Opportunity/Affirmative Action Employer.

FACULTY AND POSTDOCTORAL POSITIONS

Available immediately in the Institute of Molecular Biology, Academia Sinica. Faculty position applicants should be individuals working in cell biology. Postdoctoral applicants can be individuals in the areas of molecular parasitology, immunology, cell biology, plant molecular biology, virology, molecular genetics, and structural biology. Salaries are internationally competitive. Detailed information on request. Send letter, curriculum vitae and names of three references to: Dr. C. C. Wang, Director, Institute of Molecular Biology, Academia Sinica, Nan-Kang, Taipei 11529, Taiwan, Republic of China.

POSTDOCTORAL POSITION. Available 1 January 1992 to investigate the genetic and replication strategies used during poliovirus RNA replication in vivo. Send curriculum vitae, statement of research interests and experience, and names of three references to: Dr. James Bert Flasegan, Department of Immunology and Medical Microbiology, Box 100266 JHH, University of Florida, Gainesville, FL 32610-0266. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION, MOLECULAR IMMUNOLOGY. Postdoctoral position available to study the molecular biology of CD4+ T cell proteins. Knowledge of immunology and techniques in molecular biology is desired. Funding available for U.S. citizen or permanent resident. Send curriculum vitae and names and telephone numbers of three references to: Dr. Carolyn Doyle, Division of Immunology, Duke University Medical Center, P.O. Box 3010, Durham, NC 27710.

POSTDOCTORAL POSITION, MEDICAL LABORATORY IMMUNOLOGY

Position is available 1 July 1992 for 2 years to provide training in all areas of diagnostic laboratory immunology. M.D. or Ph.D. applicants should send current curriculum vitae with the names of three references by 1 March 1992 to: James D. Mald, Clinical Microbiology-Immunology Laboratories, CB #7600, Room 1035 East Wing, UNC Hospitals, The University of North Carolina, Chapel Hill, NC 27514.

The University of North Carolina Hospitals are Equal Opportunity/Affirmative Action Employers.

POSTDOCTORAL POSITION in CONSERVATION BIOLOGY available immediately, for at least 1 year, to study effects of habitat fragmentation on breeding bird communities. Duties include helping develop study design, censusing, and developing proposals for continuing funding. Additional opportunities for involvement in studies of an endangered cooperative breeder, the red-cockaded woodpecker. Send curriculum vitae with names of three references by 15 February 1992 to: Dr. Waldo H. Williams, Department of Zoology, North Carolina State University (NCSU), Box 7617, Raleigh, NC 27695-7617. NCSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION immediately available for investigating the cellular and molecular biology of genes in tumor progression of leukemias and lymphomas. Research involves genomic, DNA cloning of novel genes, expression analysis of genes, and characterization of gene structure, regulation of gene expression, studies on the protein products, transcription into hematopoietic and non-hematopoietic cells, and analysis of gene products. Available for 2 years. Send curriculum vitae, names and three references to: Dr. Charlotte E. Gauwerky, Jefferson Cancer Institute, Blume Life Sciences Building, Edna Jefferson University, 1020 Locust Street, Philadelphia, PA 19107. FAX: 215-923-2117. Thomas Jefferson University is an Equal Opportunity Employer. Women and minority are especially encouraged to apply.

SCIENCE, VOL. 255

The Weekly Journal of Experimental and Applied Science

We'll Help You Build A New Lab
ECOTOXICOLOGIST

EBSI has an immediate opening for a qualified individual specializing in Ecotoxicology. The successful candidate will have a Ph.D. in Ecotoxicology or a related field and 1-2 years experience in Environmental Risk Assessment, effluent biomonitoring, and toxicity reduction/identification evaluations. It would also be advantageous if the candidate has knowledge/background in the areas of wastewater and solid/hazardous waste treatment and in-stream hazard assessments. The successful candidate will act as a consultant to our affiliates on matters pertaining to the assessment of environmental hazards associated with effluents, hazardous wastes, site remediation, etc. Client interactions are an important aspect of our work, and thus, we are seeking an individual who has excellent communication skills, as well as the ability to manage small to large projects.

We offer a competitive salary, attractive benefits, and a chance to join a dynamic organization in a position with opportunities for career growth. Please send resume to Frances T. Cohen, Human Resources.

EXXON BIOMEDICAL SCIENCES, INC.
Mettler Road, CN 2350
East Millstone, NJ 08873-2350
Equal Opportunity Employer M/F/H/V

PHARMACOLOGY RESEARCH ASSOCIATE PROGRAM

The National Institute of General Medical Sciences is seeking applications for the Pharmacology Research Associate (PRAT) Program at the National Institutes of Health (NIH). The PRAT program is a 2-year postdoctoral training program for 11 recently trained, highly qualified scientists per year to spend 2 years working in one of the research laboratories of the component institutes of the NIH and the Alcohol, Drug Abuse, and Mental Health Administration. A wide variety of research opportunities are available for people trained in pharmacology who wish to expand that training at the NIH, and for people trained in related areas who wish to apply their training to problems of pharmacological interest. Research proposals are not required for application. Deadline for receipt of applications for positions beginning in July of 1993 is March 2, 1992. For more information and application material, please write to:

Program Assistant
Pharmacology Research Associate Program
National Institute of General Medical Sciences
Westwood Building, Room 919
Bethesda, Maryland 20892

NIH is an Equal Opportunity Employer

Director - Immunology

Experienced scientist (Ph.D. or M.D.) to lead and direct immunology research involved in development of immunosassays and immunotoxins, isolation of marine natural products, and development of novel uses for monoclonal antibodies. Hands on involvement expected. Develop new product proposals, contract research and grant proposals. Industry management experience desirable. This position offers an outstanding opportunity to shape the future growth of the business and share in its rewards.

Hawaii Biotech offers excellent salary and benefits, opportunities for equity participation, and a location with quality of life second to none. Send your application, resume and three references to:

Tom Humphreys, Ph.D.
Vice President
Hawaii Biotechnology Group, Inc.
99-193 Aiea Heights Dr.
Honolulu, HI 96701

CHAIR, PHARMACOLOGY DEPARTMENT

St. Jude Children's Research Hospital, a private research institute, is recruiting a new chairperson for its established Department of Pharmacology. The appointee will be expected to lead an internationally recognized program in his/her area of interest and to shape the future direction of research within the institution, through faculty recruitment and by contributions to the institution's overall scientific leadership, as a member of the Institution's Executive Committee. The institute is currently undergoing major expansion, and has recently occupied a new 240,000 sf research tower, where substantial laboratory and office space has been reserved for the pharmacology chair. The department currently has 9 faculty, all of whom are NIH funded investigators, and the new chair will be expected to recruit additional faculty. The current departmental budget is approximately $3 million. The department interfaces with established basic science programs in Virology and Molecular Biology, Biochemistry, Immunology, and Tumor Cell Biology, and established clinical research programs in Hematology/Oncology, Pharmaceutical Sciences and Infectious Diseases. Appointment to the University of Tennessee graduate faculty is also possible. The Chair's salary will be provided through committed endowment funds, together with additional resources commensurate with the needs of a dynamic and productive individual.

Applicants should submit a curriculum vitae and the names and addresses of four references to: Dr. William E. Evans, Chair, Pharmacology Search Committee, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, Tennessee 38105

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

* Harvey Research Studies.
POSTDOCTORAL POSITION available 1 July 1992 for an M.D. or Ph.D. with three or less years of experience in molecular biological techniques to work with a group identifying genes determining insulin resistance, obesity, insulin secretion, and diabetes mellitus in man. Salary up to $30,000 per year depending on experience. Send curriculum vitae, salary expectations, and three references to: Dr. Richard Margolis, Department of Pediatrics, New York University Medical Center, New York, NY 10016. An Equal Opportunity Employer.

POSTDOCTORAL POSITION in YEAST MOLECULAR BIOLOGY

Available immediately to perform promoter and DNA sequence analysis of cloned lyase genes. Experience in subcloning, Northern, Southern, deletion analysis and DNA sequencing required. Send resume, evidence of research experience and recommendation letters to: Dr. J. M. Bhattacharjee, Department of Microbiology, Miami University, Oxford, OH 45056. FAX: 513-529-2431.

POSTDOCTORAL POSITION available to characterize and clone novel cell interaction molecules expressed within lymphoid tissue using protein and biochemical approaches. Applicants should have a strong background in molecular biology. Please send curriculum vitae in the form of a vita to Alejandro Aruffo, Department of Biological Structure SM-20, University of Washington, Seattle, WA 98195.

POSTDOCTORAL FELLOWSHIP

A postdoctoral fellowship is available in the area of signal transduction and molecular mechanisms of neuroendocrine function. Laboratory is interested in hormone binding, calcium ion channels, protein kinase C, calmodulin, gene regulation and expression, intracellular and extracellular calcium, lipid metabolism and their regulation of hormonal release, receptor up and down regulation, and target cell sensitization and desensitization.

The University of Iowa College of Medicine is the home of the largest teaching hospital in the United States and in the world (Iowa 70th floor center (upper 15% of NIH grantees). It is located in a rural setting offering excellent profession, undergraduate, and public schools along with low crime and a pleasant lifestyle.

Qualified applicants should forward curriculum vitae, list of publications, a statement of interest and the names of three to five individuals suitable as professional references to:

Dr. P. Michael Conn
Professor and Chairman
Department of Pharmacology
The University of Iowa College of Medicine
Iowa City, IA 52242-1109
Telephone: 319-335-7965
FAX: 319-337-0093
BITNET: CMDPMCWY@UIAMVS
The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

TILTON POSTDOCTORAL FELLOWSHIP IN SYSTEMATICS

A 1-year award for collection-based research at the California Academy of Sciences. Stipend of $22,000 plus $1,000 for research expenses. Doctoral degree must have been awarded within past 5 years; begins 1 September 1992. Send curriculum vitae and three references by 15 February 1992 to: Human Resources, Tilton Fellowship Committee, California Academy of Sciences, Golden Gate Park, San Francisco, CA 94118.

POSTDOCTORAL RESEARCH FELLOW

Position available for studies on the role of nervous tissue proteoglycans in cell interactions and development of processes involved in cell and cell biological approaches. Please send curriculum vitae and the names of three references to: Dr. Richard Margolis, Department of Pediatrics, New York University Medical Center, New York, NY 10016. An Equal Opportunity Employer.


POSTDOCTORAL FELLOWS

CENTER FOR NEUROBIOLOGY

UNIVERSITY OF CALIFORNIA (UC), DAVIS

The Center for Neurology at UC Davis has positions available for postdoctoral research and training in cognitive neuroscience. Applicants should have a strong background in the measurement of the neurosciences at UC Davis. Faculty members in the cognitive neuroscience group have active research projects in cognitive control, learning and memory, attentional control, and the cross-modal processing of attention, learning, memory, language, visual and auditory perception, hemispheric specialization and cortical function. Research in healthy persons and well-characterized patient populations is conducted using behavioral, neuroimaging, electrophysiological, and metabolic structural imaging methods. Studies are also conducted in animals including nonhuman primates, the latter being facilitated by the California Primate Research Center at UC Davis. Send curriculum vitae, statement of interest and the names, telephone numbers and addresses of three references to: Dr. Michael Gazdzik, Director, Center for Neurobiology, Division of Biomedical Sciences, University of California, Davis, CA 95616. The University of California at Davis is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP RESEARCH ASSOCIATE

IN HUMAN MONOCLONAL ANTIBODY LABORATORY

Candidates should have 1 to 2 years of postdoctoral experience in virology or immunology with emphasis in humoral immunity. Background in immunohemistry or molecular biology would be desirable but secondary to cell biology experience. The successful candidate must be available for a personal interview.

Send curriculum vitae and three references to: Dr. Marshall R. Perman, Director of Human Monoclonal Antibody Laboratory, Department of Laboratory Medicine, UC Davis Medical Center, CR1 Building—111, 185 Pilgrim Road, Boston, MA 02215.

FELLOWSHIPS IN VISION SCIENCE

Predoctoral and postdoctoral research fellowships are available at the University of Florida College of Medicine through an NIH, National Eye Institute Training Grant. Research emphasis is in vision cell biology, molecular biology, and biochemistry. The 12 faculty preceptors maintain primary appointments in the Departments of Anatomy and Cell Biology, Immunology and Medical Microbiology, Neuroscience, Pathology, and Pharmacology, thus allowing trainees to gain access to virtually the full range of scientific and experimental training available at the college. Inquiries for complete program description and application forms should be sent to: Dr. William Hauswirth, Box 100224, University of Florida, Gainesville, FL 32610-0284. Applications will be accepted at any time, but decisions are normally made in April/May for August admission. Equal Opportunity/Affirmative Action Employer.

GLOBAL CHANGE POSTDOCTORAL FELLOWSHIPS are available from the Department of Energy for research related to the U.S. Global Change Research Program. The fellowships address the nation’s global change activities carried out by DOE and the Committee on Earth and Environmental Sciences. Stipend is $35,000. Fellowships are tenable at approved federal and university laboratories including those of DOE, the University of California, Lawrence Livermore National Laboratory, Brookhaven National Laboratory, and the National Center for Atmospheric Research. A doctoral degree received after 1 May 1989 is required as is U.S. citizenship or PRA status. Deadline is 15 February 1992. Contact: General Inquiries, Postdoctoral Fellowships, Sciences/Engineering Education Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117; telephone: 615-576-4805.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study role of tumor suppressor genes in human hereditary tumors. Experience in basic molecular biology techniques and cell culture is required. Submit curriculum vitae and names of three references to: Medical Genetics Search Committee, H. A. C. Center, State University of Iowa, Iowa City, IA 52242-0290. The University of Iowa is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE

BROOKHAVEN NATIONAL LABORATORY

The Biology Department is seeking for a recent Ph.D. preferably with experience in protein purification and/or DNA sequence analysis to participate in studies related to the function of a human nuclear protein (DNA-PK) that associates with double-stranded DNA. DNA-PK phosphorylates several DNA binding proteins including transcription factors Sp1, Oct-1, Fos, Jun and SRF, as well as the nuclear receptor for tumor antitgens. Applicants should submit curriculum vitae, a statement of research interests, and names and addresses of three references to: Dr. Clay R. Holcombe, Biology Department, Building 463, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer/MF.

POSTDOCTORAL RESEARCH INSTITUTE OF BIOSCIENCES AND TECHNOLOGY—HOUSTON

We are interested in adding highly motivated individuals to our research effort concerning the structural and functional organization of the two major domains of the human insulin receptor: the extracellular ligand binding domain and the cytoplasmic protein-tyrosine kinase domain [J. Biol. Chem. 266, 990–996; 1395–1399, 3556–3570; 1269–1274; 130–1310]. Strong background in protein chemistry and/or molecular genetics would be particularly useful. Applicants should send curriculum vitae, including research interests and the names of at least three references to: Leland Ellis, Ph.D., Professor of Biochemistry and Biophysics Institute of Biosciences and Technology Texas A&M University 2112 Holcombe Houston, TX 77030 Equal Employment Opportunity/Affirmative Action.

POSTDOCTORAL RESEARCH ASSOCIATE

ELECTROPHYSIOLOGY/CELL BIOLOGY

Positions to study (i) modulation of Na channels at single channel level with patch clamp and (ii) effects of ion transport and cGMP on cardiac cell volume with video microscopy. Experience in related techniques preferred. Contact: Dr. C. M. Baumgarten, Department of Physiology, Medical College of Virginia, Richmond, VA 23298–0515, Baumgartner@VCUUX or @ruby.vcu.edu. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Application deadline is 30 days from ad date; review will continue until position is filled. Women and minorities are encouraged to apply. Applicants working in a culturally diverse setting is highly preferred.

POSTDOCTORAL RESEARCH ASSOCIATE

REGULATORY LIPID BIOCHEMISTRY AND CELL BIOLOGY

A postdoctoral position is available to participate in an ongoing research program focused on the biochemical characterization and cloning of key enzymes that mediate phospholipid synthesis and degradation. Candidates with a Ph.D. degree interested in joining a multidisciplinary group applying contemporary techniques of molecular biology and biochemistry to problems related to the regulation of lipid metabolism should submit their curriculum vitae, a minimum of two references, and a statement of interests to: Dr. Charles O. Rock, Biochemistry Department, St. Jude Children’s Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE POSITION. Ph.D. in molecular biology or related field. Two years of postdoctoral experience in biotechnology and cell biology. Will work with microbial molecular biology and cloning involved in P1 large inserts library construction from somatic cell hybrid DNA, pulse field gel electrophoresis, linking library, DNA sequencing and chain reaction analysis. Clones obtained will be used to physically map human chromosome 19. Applicants who are not U.S. citizens must indicate work authorization in the United States. Salary is $23,000 per year; 40 hours per week, 8:30 a.m. to 5:00 p.m. Contact: Employment Security Commission, P.O. Box 16 North Manager, 165 S. Main St., Dayton, NC 27702 or your nearest Job Service Office. Refer to Job Order No. 3011281, DOT code 090.227-010.
University of Basel
Department of Zoology

ACADEMIC POSITION IN CELL BIOLOGY

This is a non-renewable academic position available for up to 5 years. We require a cell biologist to join a group investigating an in vitro transdifferentiation and regeneration system based entirely on striated muscle cells of jellyfish.

The candidate should have a Ph.D. and a good background in biochemistry. His/her work will focus on the mechanisms which stabilize cells in the differentiated state. It will include biochemical analysis of extracellular matrix components and application of mAb and standard cell biological techniques to early trans-differentiating cells. Some teaching duties are included. The salary will be in the range Sfr. 50'000-70'000 per year and will depend on experience and qualifications. Habilitation will be possible. Starting date: 1.4.92 or by arrangement.

Applications including a c.v. and the names of two referees should be sent to:

Prof. Dr. V. Schmidl
Zoologisches Institut
Rheinsprung 9
CH-4051 Basel
Switzerland

Institute of Biomedical Sciences, Academia Sinica

POSTDOCTORAL POSITIONS

The Institute of Biomedical Sciences (IBMS), Academia Sinica has postdoctoral positions available in the following areas:

A. Molecular and Cellular Mechanisms in Cardiovascular Disease and Circulatory Biophysics

B. Cancer Research
  - Cell Biology, virology, drug action, immunology, toxicology, and etiology

C. Neuroscience, Molecular and Cellular Neurobiology
  - Central cardiovascular regulation
  - Neurodegenerative diseases, learning and memory
  - Neuronal differentiation
  - Receptor and signal transduction
  - Pain

D. Molecular Parasitology
  - Studies on the molecular biology of Angiostrongylus cantonensis, Trichomonas vaginalis, and Leishmania sp.

E. Epidemiology
  - Cardiovascular, nutritional, and infectious disease epidemiology
  - Diet, virus and cancer

F. NMR Imaging and Spectroscopy
  - Macromolecular structure and dynamics
  - In vivo NMR spectroscopy, MRI

The Institute is recently established, with excellent facilities and stable funding. Positions are available for 1-3 years, starting A.S.A.P. with annual salary in the range of NT$480,000-NT$824,000 (US$15,000 or £10,500 to NT$24,000 or £13,500). Applications, with area of interest, including curriculum vitae, reprints, names, addresses, phone numbers of three individuals able to provide recommendation, should be sent to: Recruitment Committee, Institute of Biomedical Sciences, Academia Sinica, Taipei 11529, Taiwan, ROC. FAX: 886-2-782-5573.

ImmunoGen is a rapidly growing biotechnology company dedicated to the development of immunotoxins and other cancer therapeutics. Three of the company's products are in Phase II or Phase I/II clinical trials. We are seeking a talented scientist to join us in exploring new approaches to treating human disease.

Process Development Scientist
Hybridoma Cell Culture

The successful candidate should have a degree in biological sciences or engineering, five years' experience in the development and scale-up of cell culture processes, including cell line optimization, media formulation, bioreactor technologies, GMPs. The individual will initiate a new program leading to pilot production of therapeutic antibodies for clinical trials and support future manufacturing-scale operations.

ImmunoGen offers an excellent salary and benefits package including 100% paid Health and Dental Insurance and Tuition Assistance.

Please send a detailed resume including three references and a statement describing your scientific interests and career goals to: Jeanne Horgan, Personnel Department, ImmunoGen, Inc., 448 Sidney Street, Cambridge, MA 02139.

ANIMAL CELL CULTURE/FERMENTATION. Scientist level—The individual should have an MS or PhD degree in Biochemical Engineering/Chemical Engineering and significant experience in microbial fermentation and animal cell culture for production of recombinant proteins, large scale bioreactor design/operation, process development, and GMPs.

PROTEIN PURIFICATION. Scientist level—The individual should have a PhD degree in Biochemistry/Chemistry and a record of achievement in purification of recombinant proteins from microbial and animal cell culture systems. Experience in bioseparations process equipment design/operation, process development, large scale protein purification, and GMPs is required.

ANALYTICAL BIOCHEMISTRY. Scientist level—The individual should have a PhD degree in Analytical Chemistry/Biochemistry; and experience in analytical methods development and characterization of recombinant proteins to support clinical studies. Experience in HPLC, ELISA, gel electrophoresis, spectroscopy, laboratory automation, and GMPs is required.

PLASMA SCREENING. Scientist level—The individual should have an MS or PhD degree in biochemistry and experience in IL/ELISA, preparation of viral antigens, virus neutralization assays, ELISA methods, laboratory automation and GMPs. Screening will support immunoglobulin product development.

We are an equal opportunity employer and offer competitive salaries and benefits, and a unique opportunity for professional growth. Please submit your resume for prompt, confidential consideration to: Medimmune, Inc., Human Resources, 35 West Watkins Mill Road, Gaithersburg, MD 20878.
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At the NutraSweet Company, our widely-accepted technological breakthroughs allow us to make today’s world a better place for health-conscious consumers. Two outstanding opportunities exist in our FERMENTATION GROUP for individuals looking to join a global leader, committed to the development of improved consumer food choices through the application of advanced technologies.

SR. RESEARCH SCIENTIST

As a key member of the Fermentation Group, the candidate will be responsible for management of the strain evaluation program, as well as, the formulation of strategies for improvement of fermentation processes. Areas of research will focus on understanding the metabolism/physiology of microorganisms and maximizing the metabolic potential of targeted strains for the commercialization of new fermentation products.

The candidate should have a Ph.D in Microbiology or Chemical Engineering with 3 to 4 years of industrial experience. Knowledge of microbial physiology and thorough understanding of fermentation processes is essential. Hands on experience with lab and pilot scale fermentation equipment, as well as, computer control systems is expected. Excellent communication skills and supervisory experience are required.

RESEARCH SCIENTIST

The Fermentation Group also has an immediate opening for an Analytical Chemist. Responsibilities include metabolic identification and pathway analysis using a multi-disciplinary team approach as it pertains to strain improvement. Excellent communication and interpersonal skills are required and knowledge of microbial physiology is a plus.

This position requires a Ph.D or MS with 5+ years experience in Biochemistry or Microbiology. This scientist should have a strong background in analytical characterization of fermentation products using such techniques as HPLC, GC, TLC and electrophoresis. Knowledge of essay development is also required.

The NutraSweet Company offers an excellent compensation and benefits package, career opportunities and more. For immediate consideration, forward your resume, including salary history, to: The NutraSweet Company, Attn: Human Resources, 601 E. Kensington Road, Mt. Prospect, IL 60056, or/fax

The NutraSweet Company

Postdoctoral Researchers

Genentech, a leader in the biotechnology industry, has two exceptional opportunities for Postdoctoral Researchers to study the molecular interactions of cytokines with their receptors and mechanisms of cytokine signal transduction. Experience in molecular biology and/or protein biochemistry required; experience in cell biology and/or immunology is desirable. This project is interdisciplinary and the research environment is both exciting and productive. (See Proc. Natl. Acad. Sci. USA, 88, pp. 10535-10539, 1991)

Please send your curriculum vitae and three letters of recommendation before February 29th, 1992 to Genentech, Inc., Human Resources Dept. YS/SC, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal employment opportunity.

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Thomas Jefferson University has established a flexible entry program for graduate studies in biochemistry and molecular biology, molecular genetics, immunology, microbiology and molecular virology, molecular pharmacology and structural biology, and pathology and cell biology through several departmental and interdepartmental programs. In the first year, students will take a common core curriculum consisting of courses in biochemistry, molecular biology and cell biology, followed by specialized courses in their particular area of concentration. After performing research rotations in three laboratories, students will choose their thesis advisor and the discipline for the Ph.D. degree. The faculty of the Departments of Biochemistry and Molecular Biology, Microbiology and Immunology, Pathology and Cell Biology, Pharmacology and the Jefferson Cancer Institute and Jefferson Institute of Molecular Medicine have a long standing record of graduate training; currently, there are 116 Ph.D. and M.D.-Ph.D. students in these programs.

State of the art research laboratories are located in the new 11-story Lewis W. Bluelme, Jr. Life Sciences Building and in nearby Jefferson Alumni Hall. Facilities available for research include oligonucleotide synthesis and automated DNA sequencing, peptide synthesis and microsequencing, facilities for cell flow cytometry and transgenic mouse production, digital imaging fluorescence and laser scanning confocal microscopy, scanning and transmission electron microscopy, and strong support for structural biology investigations including two-dimensional nuclear magnetic resonance, X-ray crystal structure analysis, molecular modelling and graphics, and a software development laboratory utilizing high performance Silicon Graphics and Convex computers.

Students accepted into the program will be provided with full financial support including tuition and a competitive stipend. For interested and qualified students, an M.D./Ph.D. program is available.

The 13 acre campus of Thomas Jefferson University is located in the historical downtown area of Philadelphia within walking distance of many places of cultural interest including concert halls, theaters, museums, art galleries and historic sites. There are numerous intercollegiate and professional athletic events. Convenient bus and subway lines connect the University with other local universities and colleges and with several outstanding libraries. The proximity of the New Jersey shore and the Pennsylvania mountains offers year-round recreational opportunities, and New York City and Washington, D.C. are each just a few hours away.

Thomas Jefferson University is a medical university which emphasizes the biological sciences. It evolved from the Jefferson Medical College, which was founded in 1824, and, in addition to the Medical College, includes the College of Graduate Studies, the College of Allied Health Sciences, the University Hospital, and various affiliated hospitals and institutions. The basic medical sciences building houses the Student Commons, study lounges, a swimming pool, a sauna, a gymnasium, and a handball-squash court. For further information regarding September 1992 entrance call or write:

Ms. Jessie Pervall
Admissions Coordinator
College of Graduate Studies
Thomas Jefferson University
1020 Locust Street
Philadelphia, PA 19107-6799
(215)955-8986
RESEARCH ASSOCIATE in PLANT CELL WALL CARBOHYDRATE BIOCHEMISTRY

The University of Georgia Complex Carbohydrate Research Center seeks a postdoctoral associate interested in research on the structural characterization of plant cell wall polysaccharides. Ph.D. desired in chemistry or biochemistry or an equivalent combination of education and experience. Experience with one or more of the following techniques required: GC, TLC, NMR spectroscopy. Salary depends on experience. Position available immediately; applications will be reviewed after 15 Feb.

Send current vita and names of at least three references to: Dr. Margarita L. Dubocovich, Department of Pharmacology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611.

RESEARCH ASSOCIATE

RESEARCH ASSOCIATE for university in central Ohio. Conducts scholarly research in agricultural science and genecology; develops and modifies computer assisted models of MNTEQ and GEOCHEM; develops new technologies for in situ lead immobilization in contaminated environment; analyzes data to develop theories controlling lead immobilization processes; publishes scientific manuscripts in refereed literature; attends and presents data at scientific meetings. No experience required in the duties described but applicants will qualify with the following: Ph.D. in agronomy and 2 years of experience in determining activities of heavy metals and mechanisms controlling their activities in contaminated environments; applying and modifying computer models of MNTEQ and GEOCHEM; at least one publication in area of heavy metal chemistry; experience can be gained concurrent with degree. Forty hours per week, 8:00 a.m. to 5:00 p.m., Monday to Friday; $27,360 per year. Must have proof of legal authority to work permanently in the United States. Send resumes in duplicate (no calls) to: J. Bussard, JO#1260352, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE

RESEARCH ASSOCIATE BIOMEDICAL ENGINEERING UNIVERSITY OF TENNESSEE, MEMPHIS

The Department of Biomedical Engineering, University of Tennessee, Memphis, is seeking to fill a research associate position in its Medical Imaging Research Group. The position is funded for 2 years by a research grant from the National Science Foundation aimed at studying the feasibility of performing intravascular coronary angiography using K-emission x-rays. Experiments will be performed at Brookhaven National Laboratory. Applicants must possess a degree in biomedical or electrical engineering, medical physics, or related fields, and should have experience in experimental digital imaging research with CCD TV camera systems of high power electron accelerators is desirable. Applications will be received until 29 February 1992.

The BME Department currently has nine core and joint faculty, three affiliated faculty, a Basic Instrumentation Division consisting of 18 staff (13 electronic technicians and machinists, and 5 clerical and supervisory staff) and a recently initiated M.S. and Ph.D. graduate program.

Applications should submit a certification of doctoral degree and request application to position number 140A from The University of Tennessee, Memphis, Human Resources Department, 178 Walnut, Memphis, TN 38163.

Applications from women and minority candidates are encouraged. The University of Tennessee is an Equal Employment Opportunity/Affirmative Action/Titie VI/Section 504/ADA Employer. Rev. 2 (4/91).

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This 42-page special section, reprinted from the 29 November issue of SCIENCE, is your entry to the expanding world of small-scale engineering. It’s a field that spans microelectronics, materials science, chemistry, molecular biology, and microscopy. In this special section, ten illustrated articles by research leaders and by science journalists present the full scope of this small world.

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RESEARCH STAFF ASSOCIATE


RESEARCH ASSOCIATE

RESEARCH ASSOCIATE for university in central Ohio. Conducts scholarly research on interactions between soil organic matter and inorganic compounds in relation to their environmental fate (particularly to bioavailability) using various extraction and fractionation techniques, spectroscopic methods such as Fourier transform infrared, UV-visible and fluorescence and isotope tracer methodology; presents research findings at national conferences; publishes research articles in scientific journals. No experience required in the duties described but applicants will qualify with the following: Ph.D. in agronomy and 2 years of experience in soil organic matter using extraction and fractionation techniques and bioavailability studies using isotope tracer methodology; of the 2 years, 1 year of experience with FTIR, UV-visible, and one course in chemical terminology, soil organic matter and tracer methodology; at least two published research articles on soil organic matter in scientific journal. Experience may be gained before, during or after degree. Forty hours per week, 8:00 a.m. to 5:00 p.m., Monday to Friday; $27,000 per year. Must have proof of legal authority to work permanently in the United States. Send resumes to: C. Bussard, JO#1260532, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

EMBRYOLOGIST

EMBRYOLOGIST STAFF SCIENTIST

The H. A. Chapman Research Institute of Medical Genetics seeks an embryologist with experience in IVM/IVF and micromanipulation to establish a research program in preimplantation genetics. Candidates who could interact with an active cytogenetics and molecular genetics research group and collaborate with reproductive endocrinologists in assisted reproduction technologies are encouraged to apply. Ph.D. degree and 2 years of postdoctoral experience required. Submit curriculum vitae, reprints, statement of research interests and three references to: Medical Genetics Search Committee, H. A. Chapman Research Institute of Medical Genetics, Children's Medical Center, 5500 East Skelly Drive, Tulsa, OK 74135.

MASS SPECTROMETRIST

The Division of Biochemical Toxicology at DHHS/PHS/FDA's National Center for Toxicological Research (NCTR) has an opening for a mass spectrometrist. The mass spectrometry facility at NCTR includes several quadrupole mass spectrometers (four GC/MS's, a LC/MS, a triple quadrupole MS), an ion trap GC/MS, and a LIF selected ion monitoring instrument configured for FAB. Ongoing research in the division is concentrated on the role of DNA adducts in mutagenesis and carcinogenesis, and the development of NMR and mass spectral methods to detect toxic responses. NCTR is seeking an individual with a broad background in biomedical mass spectrometry and/or experience in LC/MS, with research interests that complement these areas. The opening is receipt scientist position at the GS-12/13 ($38,861 to $60,070) level and is dependent upon peer review of qualifications and accomplishments. Please send a resume including an outline of proposed research and required equipment to: Frederick A. Beland, Director, Division of Biochemical Toxicology, NCTR, Jefferson, AR 72079. DHHS/PHS/FDA/NCCTR is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are especially encouraged to apply. U.S. citizenship is required.

MOLECULAR BIOLOGIST

MOLECULAR BIOLOGIST: We are looking for an individual with experience in molecular biology techniques including in situ hybridization, and Northern blotting. The research involves demonstration of the role of cytokines (TNF-a, IFN-gamma), TNF-x and steroids in human endometrium. Please telephone Dr. Tabibzadeh at 813-979-7237 or write S. Tabibzadeh, M.D., Department of Pathology, Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612.
The recent opening of the new Glaxo Inc. Girolami Research Institute, located in Research Triangle Park, NC, represents Glaxo's continued commitment to the discovery and development of drugs for unmet patient needs. We invite you to experience the challenges and accomplishments a future with us holds for you. The following opportunities are now available.

**SENIOR SCIENTIST**

The selected candidate will be responsible for conducting independent research programs related to receptor biochemistry. Additionally, individual will assist in preparing short-term plans for the unit.

Background must include a Ph.D. in Life Sciences with 1-3 years of relevant laboratory experience.

Please refer to Job # 9127B145-SC on all resumes.

**RESEARCH SCIENTISTS**

The successful candidates will be responsible for the purification, characterization, and biophysical analysis of recombinant proteins for our structure based drug design projects. Individuals should have experience in the refolding of proteins and experience with fusion proteins is preferred. In addition, their experience should include the following techniques: HPLC chromatography, IEF and SDS PAGE, UV, CD, fluorescence, and small-angle light scattering spectroscopy, analytical ultracentrifugation, microcalorimetry, and enzyme and receptor assays. Individuals should also be able to interact with other scientists on collaborative projects involving mutagenesis, peptide/medicinal chemistry, amino acid sequencing and analysis, molecular modeling, mass spectrometry, NMR, and X-ray crystallography.

Positions are available for candidates at the BS/MS level, and/or Ph.D. with at least two years relevant experience. We seek independent, highly motivated individuals who possess good communication skills, and work well with others in a team setting to successfully complete projects. Preference will be given to candidates with extensive experience in developing protein purification, characterization, and analysis methods utilizing progressive technologies.

Please refer to Job # 9141-SC on all resumes.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume, INDICATING THE CORRESPONDING JOB # and salary history, to Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/H/V.

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**TENURE-TRACK POSITION AT THE NIH**

A junior tenure-track position is available in the Genetics and Biochemistry Branch, NIDDK, NIH. Applications are invited from individuals of the highest caliber who will complement the scientific interests of the current staff. The Branch is located on the main intramural campus of the NIH in Bethesda, Maryland, a 20 minute ride from Washington, D.C. The current interests of the faculty-level staff include:

- Eukaryotic DNA repair, molecular mechanisms of toxin action, and mechanisms of nuclear and cytoplasmic localization of proteins and nucleic acids in *Xenopus* (Eric Ackerman)
- Biochemistry and molecular biology of homologous recombination in eukaryotes and prokaryotes, the structure and function of novel triplex DNAs, gene rearrangements in eukaryotes (Dan Camerini-Otero)
- Molecular mechanisms of homologous recombination in higher eukaryotes, functional studies of mammalian DNA ligases and the formation and recognition of DNA mismatches (Peggy Hsieh)
- Molecular basis of mechanisms involved in hormonal and developmental control of gene expression: protein-nucleic acid interactions, trans acting factors of steroid/thyroid hormone receptor gene superfamily (Vera Nikodem)
- Molecular genetics of lysosomal storage diseases, protein trafficking, gene targeting by homologous recombination to produce models of human disease (Rick Proia)
- Control of gene expression in vertebrates (Ed Rali)
- Thyroid hormone-protein interactions and the mechanism of intracellular thyroid hormone transport, genetic factors in thyroid neoplasia, and clinical studies in thyroid cancer (Jacob Robbins)
- Determinants of anteroposterior axis formation and the role of transcription factors in the specification of neuronal phenotypes in early *Xenopus* development (Sheryl Sato)

Interested candidates should send a letter stating their research interests, their curriculum vitae and list of publications, and the names and addresses of three references to:

Dr. R. Daniel Camerini-Otero, Chief
Genetics and Biochemistry Branch
National Institutes of Health
Building 10, Room 9D-15
9000 Rockville Pike
Bethesda, Maryland 20892

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Glaxo Inc.
positions open

The Marine Life Research Group of Scripps Institution of Oceanography (SIO) at the University of California, San Diego (UCSD), cooperates with federal and state fisheries agencies in the study of the pelagic ecology of the California Current System—the CoOpOceanographic Investigations (CO-OP) program. We intend to employ one or more assistant researchers in oceanography or marine biology. Possessing a Ph.D. in D. or E. and/or experience with pelagic research, the successful applicant will participate in the pelagic ecology program aboard the R/V Free Enterprise. For further details, contact Dr. Robert W. P. Smith, Scripps Institution of Oceanography, La Jolla, CA 92031.

WANTED: MICHAEL JORDAN OF THE LAB BENCH

Young, "upstart" clinical and research laboratory in Houston, Texas, is looking for a star. Ph.D. preferred, but talent required. We need an experienced molecular biologist with a background in molecular biology, genetics, and biochemistry. A person who is interested in expressing his/her creativity and imagination at a high level will be a perfect candidate. Please send resume to: ONCORE, Inc., 4900 Fannin, Box CVH, Houston, TX 77004.

ENGINEER, ENVIRONMENTAL ASSISTANT.

Utilize engineering knowledge and technology to identify and solve or alleviate environmental problems. Apply knowledge of atmospheric science, civil and environmental engineering to correct and remove pollution from air, soil or water. Applying biological techniques, conduct geotechnical and hydrologic analysis to treat or stabilize waste. Measure air emissions and toxic air pollutants. Using computer analysis program (USEPA UNAMAP) conduct simulation modeling, image data results, including meteorological data. Examine industrial source testing, ambient sampling of air pollutants and understand facilities. Write computer programs for data analysis of monitoring studies. Interpret applicable AP is regulations, formulate compliance plans for industry and commercial sites. Prepare estimates involving air, water and solid waste. Must have 3.0 grade point average and completed at least one semester of coursework in air pollution meteorology, stable isotope geochemistry, scanning electron microscopy. Salary: $32,205 per year. B.S. in civil or environmental engineering plus 1 year of experience in job or 1 year of experience in air pollution control engineering. Must have legal authority to work permanently in the United States. Send resume to: Illinois Department of Employment Security, 405 North Wells, Room 173, Chicago, IL 60605. Attention: Annette Fox, Reference #: VLIL-35800-6. No calls. Two copies of your résumé are required.

positions open

FORENSIC TOXICOLOGIST

The Maryland Office of the Chief Medical Examiner is seeking candidates for the position of Director of the Forensic Toxicology Laboratory. A Ph.D. in a related field of science with 5 years of forensic toxicology experience and ABT-FT certification required. Appointment with a term of up to 4 years available. Applicants should submit cover letter, vitae and three letters of reference by 21 February 1992 to: John E. Smale, M.D., Chief Medical Examiner, State of Maryland, 111 Penn Street, Baltimore, MD 21201; telephone: 410-333-3226. Equal Opportunity Employment/Affirmative Action Employer.

MOLECULAR RADIATION BIOLOGIST BIOCHEMIST POSITION

The position is available for a qualified scientist (Ph.D. in biochemistry, biophysics, molecular biology, or physiology) at the level of assistant staff to join an active and expanded program in radiation biology at the Department of Radiation Therapy, Cleveland Clinic Foundation. Current research activities range from cellular DNA, cell cycle-specific and chromosome damage and repair, to tumor physiology, biophysics and blood perfusion as applied to radiation therapy and effective adjuvant therapy. Individuals with at least 3 years of postdoctoral training in related fields, independent research capabilities and commitment to research are encouraged to apply. Salary is highly competitive and depends upon qualifications. Qualified applicants are to submit application with current vitae, and three letters of recommendation to: Dr. E. H. C. A., Laboratory of Radiobiology, M3-31, Department of Radiation Therapy, Cleveland Clinic Foundation, Cleveland, OH 44195.

research scientist

The Tumor Biology and Biophysics Division of the Department of Radiation Oncology at the Fox Chase Cancer Center is recruiting a research scientist with training in molecular biology techniques to initiate his/her independent research program. Applicants should hold a Ph.D. or M.D./Ph.D. degree. Students are available at all levels for research. Appointments can be made at levels equivalent to assistant or associate professorships in a university setting. Preference will be given to applicants with research experience in molecular mechanisms of (1) radiation sensitive/resistant mutants, (2) radiation induction of DNA lesions, (3) radiation mutagenesis, and/or (4) cellular repair processes. The Tumor Biology and Biophysics Research Program at the Fox Chase Cancer Center is housed within new laboratories designed in 1990. It is well equipped and supported by several core facilities including a macromolecular synthesis and analysis facility, a spectroscopy facility, two cesium-137 Irradiators and a state-of-the-art laser light source. The Department of Radiation Oncology has academic affiliation with the University of Pennsylvania. Applications including current vitae and names of three references should be sent to: Search Committee, c/o Personnel Department, Dr. J. D. Chapman, Director, Tumor Biology and Biophysics, Department of Radiation Oncology, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

San Diego Regional Cancer Center, a not-for-profit biomedical research institution located in La Jolla, has a major focus on basic and clinical studies that ultimately will lead to cancer therapy. The center is currently recruiting SCIENTIFIC STAFF AT ALL LEVELS in the areas of basic immunology and molecular biology. Successful candidates are expected to maintain externally funded, independent research programs in these two disciplines and to be intellectually involved in the application of basic concepts and strategies for effective immunotherapies and genetherapy for cancer. Equal Opportunity Employer.

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Announcements

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Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, Connecticut. Departmental research interests emphasize regulation of gene expression in embryogenesis and development; heat-shock response and cellular regulation of iron metabolism; biophysics of protein–nucleic acid interactions; molecular genetics and regulation of protein secretion; DNA replication; structure and function of chromosomal proteins; yeast genes homologous to protein kinase oncogenes; and mechanisms of action of thiamine and ascorbic acid; nuclear magnetic resonance spectroscopy and computer modeling. All students receive teaching or research stipends, tuition remission, good fringe benefits and dependency allowance, if applicable. Opportunities to teach. Write: Director of Graduate Admissions, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175 or telephone: 203-344-8544, ext. 2796.

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