Positions Wanted

Immunologist, M.D. Established investigator. Academic research training in autoimmunity, cellular immunology, immunopathology, publication in autoimmune diseases. Interested in developing specific therapeutics for autoimmune diseases. Senior scientist/scientific director position in industry. Box 3, SCIENCE.


Medical Informatics, M.D. Research and development expertise in artificial intelligence (Expert systems), medical information systems, and computer-assisted medical education. Also, experience teaching medical informatics. Seeking challenging position utilizing medical/biological and computer background in advanced academic and/or clinical research environments. P.O. Box 260324, Tampa, FL 33685.

Thirty-one-year-old recently graduated scientist (Danish degree of Cand.) from Institute of Genetics, Copenhagen University, looking for a job as Molecular Biologist. Specialized in genetics and molecular biology techniques. Final project involved P-element transformation on Drosophila melanogaster. Box 172, SCIENCE.


Toxicology and Regulatory Affairs. Manager (Ph.D.). Experience in safety evaluations of human and animal drugs, OTC products, industrial chemicals. Monitored preclinical and clinical trials. Submitted INDs and INAA1s, and environmental assessments. Good interactions with FDA, EPA, EEC, and Japan. Box 4, SCIENCE.

Positions Open

ANIMAL SCIENCE FACULTY POSITIONS RUTGERS, THE STATE UNIVERSITY

The Department of Animal Sciences at Cook College, Rutgers, the State University of New Jersey, has reopened the search for highly qualified individuals for several tenure-track or tenured positions (available at rank of assistant or associate professor). It is anticipated that four positions will be filled by July 1989. Candidates should have a doctoral degree and postdoctoral experience. A strong record of research accomplishment, and demonstrable potential for the development of an independent research career. We are seeking individuals with research interests utilizing animal species or poultry in the following areas: Immunology, immunogenetics, reproduction, cell biology, growth, muscle biology or transgenics. Salaries are competitive, and rank will be determined by experience and achievement. Applications, including curriculum vitae, with a complete list of publications, and the names of at least three individuals from whom letters of reference may be solicited, should be submitted to:

Chair of the Search Committee

Department of Animal Sciences

Cook Campus

Rutgers, The State University of New Jersey

New Brunswick, NJ 08903

Applications should be postmarked by 15 February 1989, but will be considered until the positions are filled.

Rutgers is an Affirmative Action/Equal Opportunity Employer.


ASSISTANT CURATOR VERTEBRATE PALEONTOLOGY

AMERICAN MUSEUM OF NATURAL HISTORY

The Department of Vertebrate Paleontology invites applications from Ph.D.'s in vertebrate paleontology with specialization in nonmammalian tetrapods for an entry-level, tenure-track curatorial position. Applicant must have experience in research in systemsatics and comparative morphology as well as proficiency in related earth and biological sciences. The successful candidate will be expected to develop a strong research program and participate in curation, maintenance, and growth of collections of fossil reptiles, amphibians, and birds. Active involvement in the De- partment's exhibitions, public programs, and graduate teaching programs is also expected. Other responsibilities will include participation in departmental and museum administrative activities.

Salary will be commensurate with qualifications and experience. Full Museum benefits apply. Interested applicants must submit by 15 February 1989: a letter of application, curriculum vitae, a brief statement of research objectives, and names and addresses of at least three references. Submit to:

Dr. Michael J. Novacek
Chairman, Search Committee

Department of Vertebrate Paleontology

American Museum of Natural History

Central Park West at 79th Street

New York, New York 10024-5192

An Equal Opportunity Employer.

ASSISTANT PROFESSOR

At Presbyterian-related liberal arts women's college with strong programs in biology and chemistry to develop physics program, also teaching physical science and general chemistry. Submit résumé, official transcript, and three letters of recommendation by 15 February 1989 to: Physics Search Committee, Dean of the College, Mary Baldwin College, Staunton, VA 24401. Equal Employment Opportunity/Affirmative Action Employer.
ACADEMIC TRANSPLANT SURGEON—Facul-
ty position starting at the rank and salary of an assistant professor in a prestigious midwestern university with a large multi-organ transplant center to develop a major pediatric transplant program. Applicants should be board-eligible in general surgery and must be fully trained in kidney, liver, and pancreas transplant surgery and experienced in vascular access surgery. The position is open to recent graduates in laboratory and/or clinical research. In addition, the applicant must have special competence in pediatric kidney transplantation with the ability to carry out clinical research. Responsibilities include teaching general surgery students and house staff and the techniques of transplantation and follow-up. Interested individuals should forward their curriculum vitae to: Box 2, SCIENCE.

ASSISTANT PROFESSOR—We invite applica-
tions for a tenure-track position available 1 July 1989 in the area of marine geochemistry/biogeochem-
istry. Qualifications: A Ph.D. with a minimum of 2 years of postdoctoral experience in lipid geochemistry, including the trash pumping of natural organic material in water column and sedimentary environments. We are particularly interested in individuals who will be able to present novel data in areas of fisheries, toxicology, environmental chemistry, and microbiology. Interest in teaching within the Uni-
versity’s marine science program is also desired. Appli-
cations including a curriculum vitae, three letters of recom-
mendation, and a statement of research interests should be sent to: Dr. Roger Dawson, Chair, Geochemistry Search Committee, University of Maryland, Chesapeake Biological Laboratory, Box 38, Solomons, MD 20689. Applications received by 1 March 1989 will be given full consideration.

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

A position is available at the rank of ASSISTANT PROFESSOR in the Department of Orthopaedics at The University of Texas Health Science Center at San Antonio. Individuals applying for this position should have a Ph.D. in engineering. Specialization in biome-
chanics, particularly as it relates to orthopaedics and bone and cartilage repair, is required. The applicant is expected to establish an independent research program within the division of research and must interface closely with a large research group in orthopaedics. Applicants are to be trained in the area of bone and cartilage metabolism. Postdoctoral experi-
ence is desirable. Interested applicants should send their curriculum vitae, references to: Dr. Barbara D. Boyan, Ph.D., Director, Division of Research, De-
partment of Orthopedics, 7703 Floyd Curl Drive, San Antonio, TX 78284-7774. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR IMMUNOLOGIST
UNIVERSITY OF MINNESOTA
SEARCH REOPENED

The School of Dentistry of the University of Minneso-
ta invites applications for a tenure-track position. The successful candidate will be expected to develop a vigorous independent research program and interact with scientists in the Basic and Clinical Research Centers and Dental Diseases, the Dental Research Institute, and other excel-
 lent programs in cellular and molecular immunology. Applications are invited for resident immunology programs or projects in any area of modern immunology are encouraged to apply. Minimal qualifications include a Ph.D. and postdoctoral experience of a D.D.S. degree with 5 years of research experience. Candidates must be qualified to teach in graduate and professional school courses. Excellent labora-
tories and start-up funds are available. Applicants should have a Ph.D. degree or will be expected to complete the degree within the next year. The names of three references to: Dr. Mark C. Herzberg, Chairperson, Immunologist Search Committee, U of M School of Dentistry, 17-164 Moore Twin-
ter, University of Minnesota, Minneapolis, MN 55455. Applications will be accepted until 8 February 1989. The University of Minnesota is an Equal Opportunity Educator and Employer and encourages applications from women and minorities.

ASSISTANT PROFESSOR, ANATOMY—Con-
ducts university courses at the graduate level in the area of human gross anatomy. Prepares and delivers lectures; coordinates and supervises guest lecture participation. A Ph.D. in Gross Anatomy, M.D., or equivalent. Also must have strong background in human gross anatomical dissection, good teaching references, and at least 1 year of academic teaching experience. Preferences are given to candidates at the college or university level, as well as clinical experience examining or observing the examination and treatment of human subjects. A complete application must include a letter of reference from three addresses. Send applications to: Dr. J. E. Hueppe, Chairman, Gross Anatomical Search Committee, University of Pennsylvania School of Medicine, 3400 Spruce Street, Philadelphia, PA 19104. Applications are due by 12 December 1988. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MOLECULAR BIOLOGY OF RETROVIRUSES

The Division of Biology at Kansas State University has a tenure-track position available at the assistant professor level effective August 1989. Applications are invited from investigators with postdoctoral experience in the molecular biology of retroviruses and/or related onco-
gene expression. The division has a strong program in biological research, excellent facilities, an NIC Graduate Training Grant in Virology and Tumor Biology, and a distinguished faculty with several millions of dollars in grants available. The candidate will be expected to establish a vigorous and creative program in retrovirus and/or oncogene research, and to participate in graduate and undergraduate instruction. Candidates should have a Ph.D. in molecular biology, a Ph.D. in virology, or a Ph.D. in immunology. Send curriculum vitae, a brief description of future research plans, and three letters of reference to: Dr. J. E. Hueppe, Chairman, Gross Anatomical Search Committee, University of Pennsylvania School of Medicine, 3400 Spruce Street, Philadelphia, PA 19104. Applications are due by 12 December 1988. An Equal Opportunity/Affirmative Action Employer.

The Chemistry Department of Wesleyan University invites applications for a tenure-track position in inor-
ganic chemistry, effective September 1989. It is expected that the appointment will be made at the ASSISTANT PROFESSOR level, but exceptional candidates of high-
ernumber will be encouraged to apply. The successful applicant will exhibit the potential for excellence in both teaching (undergraduate and graduate level) and research in a well-equipped and active Ph.D. program, and will be expected to attract outside funding. Salary, fringe benefits and start-up funds will be highly competitive. Interested applicants should submit cur-
riculum vitae, a brief description of research plans, and the names and addresses of three references to: Chair of the Inorganic Search Committee, Department of Chemistry, Wesleyan University, Middletown, CT 06457 by 20 February 1989. Late applications may not be considered. Wesleyan University is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minority candidates.

ASSISTANT PROFESSOR PLANT SYSTEMATICS AND CYTOLOGY

The Department of Botany-Microbiology, Ohio Wes-
leyan University, invites applications for a tenure-track position commencing August 1989. Applicants are expected to develop an active research program that includes general botany, plant systematics, and cytol-
ogy. Prefer person interested in developing an alternate-year course in horticulture. Candidates must have a strong background in plant biology. Applicants should include curriculum vitae, statement of research interests, and three letters of recommendation sent to: Dr. E. A. Martin, Department of Botany-Microbiology, Wesleyan University, Delaware, OH 43015. Ohio Wesleyan is an Affirmative Action/Equal Opportunity Institu-
tion, encouraging applications from women and minorities.

Two Assistant Professorships—The Department of Veterinary Microbiology, College of Veterinary Medicine, University of Missouri–Columbia, Mo. is seeking applicants for two full-time, tenure-track assistant professorships. The department’s plans include implementation of the latest technology in solving cur-
rent disease problems of veterinary, zootechnical and com-
parative medical importance. Existing faculty expertise will be complemented by that of successful applicants in addressing host/agent/environment interaction in an in-
troducing approach. Successful candidates will be encouraged to collaborate with faculty engaged in molec-
ular/cell biology in medicine, agriculture and biological sciences.

Position 1—Available immediately. We are seeking a Ph.D. veterinary immunologist responsible for teaching immunology in the professional curriculum. D.V.M. and certification by the American College of Veterinary Microbiologists are desirable. The position will involve contributions to graduate courses, development of a competitive research program and supervision of gradu-
ate students. Veterinary research experience in an area compatible with the departmental thrust and competitive for external funding is highly desirable. Applications will be accepted until 15 February 1989 or until a suitable candi-
date is identified. Salary dependent on qualifications.

Position 2—We are seeking a Ph.D. or D.V.M., Ph.D. microbiologist or parasitologist with special interest and experience in an area of molecular or cellular immuno-
logy. This person shall participate in teaching in the professional curriculum and coordinate a multidiscipli-
inary approach to disease control via immunologic study. The individual will be expected to establish a competitive research program and supervise graduate students. Application deadline will be 15 September 1989. Applications will be accepted until 15 March 1989, or until a suitable candidate is identified. Salary will be based on qualifications.

Send curriculum vitae, names, and addresses of three references and letter stating professional goals to: C. A. Carson, Chairman, Department of Veterinary Microbiology, 104 Conway Hall University of Missouri–Columbia, Columbia, MO 65211. The University of Missouri is an Affirmative Action/Equal Opportunity Employer/Educator.
Assistant Professor, Microbial Genetics. Academic year, tenure-track position available fall 1989. Teach microbial genetics, molecular biology, participate in an introductory course, direct undergraduate and masters-level research. Ph.D., strong commitment to teaching, competitive salary. Send curriculum vitae, graduate and undergraduate transcripts, three recommendation letters, all postmarked by 15 February 1989. Chair, Department of Biology and Microbiology, University of Wisconsin—La Crosse, La Crosse, WI 54601. An Affirmative Action/Equal Opportunity Employer.

Assistant Professor—Molecular Immunologist. Faculty position in the Department of Microbiology/Immunology for an investigator with experience in the molecular mechanisms of B and T cell activation; in particular, the role of interleukins in leukocyte activation and differentiation. Opportunities to collaborate closely with other groups involved in the cellular and molecular aspects of lymphocyte biology. Send curriculum vitae, a summary of research interests and two letters of recommendation to: Dr. Daniel H. Conrad, Chairman Search Committee, Department of Microbiology/Immunology, MC 578, MCV Staton, Richmond, VA 23298. The deadline for receipt of application is 1 March 1989. MCV is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

Assistant/Associate Professor in Plant Cellular/Molecular Biology and Breeding. This is a tenure-track position with responsibility for a research/teaching program in genetics and breeding of turfgrasses. The turfgrass industry in Virginia is rapidly expanding. There is great potential for enhancing turfgrass genotypes, particularly in resistance to non-specific herbicides and to disease, and in cold and heat tolerance. Appropriate research activities would include gene identification, characterization, genetic transformation, and regeneration or other relevant molecular/cellular techniques. The appointee will have the opportunity to participate in an interdisciplinary team with good opportunities for working closely with colleagues in genetics, breeding, biotechnology, pathology, and entomology. Applicants should have a Ph.D. and preferably post-doctoral experience in areas of cellular/molecular biology, genetics or breeding. Experience in working with monocotyledonous species would be advantageous, and knowledge of turfgrasses is desirable. Salary will be commensurate with training and experience. The position is available 1 July 1989, with the possibility of filling it earlier in exceptional circumstances. Applications will be accepted until 8 February 1989 or until the position is filled. Interested candidates should send a summary of research interests, and three references to: Dr. R. W. C. Cameron, Professor and Head, Department of Agronomy, Virginia Polytechnic Institute and State University, Blacksburg, VA 24061. Telephone: 703-961-6366.

VPI/ISU is an Equal Opportunity/Affirmative Action Employer.

Associate and Assistant Professors of Cell Biology. The Department of Cell Biology, Stanford University School of Medicine, invites applications for the positions of associate and assistant professor. Candidates should have significant accomplishments in one or more of the following areas: X-ray crystallography, electron microscopy, cell biology, cell surface antigens, or cell structure. Applicants should send curriculum vitae, description of research interests, and names and addresses of three referees to: Dr. Roger D. Kornberg, Department of Cell Biology, Stanford University School of Medicine, Fairchild Science Building, Stanford, CA 94305.

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

Assistant Professor Molecular Neurobiology. Assistant Professor, University of Florida, College of Medicine. A tenure-track assistant professor position is available in the Department of Neuroscience starting on or before 1 July 1989. The University of Florida, an extensive and large and growing state-funded Interdisciplinary Center for Biotechnology Research and, together with the Department of Neuroscience, has a strong commitment to expand molecular biology facilities. This candidate will be expected to develop an independent research program and participate in graduate/medical teaching. Send a summary of research interests and three letters of recommendation to: Dr. Perry Shaw, Department of Neuroscience, University of Florida College of Medicine, Gainesville, FL 32610-0244, before 1 March 1989.

Assistant Professor (Research Scholar). Faculty of Medicine, Department of Physiology, University of Alberta, Edmonton, Alberta, T6G 2H7.

The University of Alberta is committed to the principle of equality in employment.

Assistant/Associate Professor. The Department of Biochemistry and Molecular Biology at the University of Colorado, School of Medicine, invites applications for a tenure-track position in the general area of molecular biology. The position carries a competitive salary and start-up funds. Review of applications will begin 15 March 1989 and will continue until the position is filled. Please send curriculum vitae, a statement of research interests, and names of three references to: Duane C. Eicher, Ph.D., Chairman, Search Committee, Department of Biochemistry and Molecular Biology, College of Medicine, University of South Florida, Tampa, FL 33612. The University of South Florida is an Equal Opportunity/Affirmative Action Employer.

Assistant or Associate Professor of Physical Sciences Education. Teach courses in one of the departments of the Physical Sciences area, engage in scholarly activities, and assist with development and implementation of a program in Physical Sciences Education. Appointment at rank appropriate to qualifications ($27,588 to $48,204). Applicant must have Ph.D. degree in one of classical physical sciences areas, broad background in the physical sciences and demonstrated emphasis in science education as a primary interest. Applicants are to submit letter of application and curriculum vitae specifying qualifications to: Dr. O. O. Deane, School of Natural Sciences, California State University, San Bernardino, CA 92407. Applications will be accepted until position filled: will not close prior to 1 February 1989. An Equal Opportunity/Affirmative Action Selection 504, Title IX Employer.

ASSOCIATE OR FULL PROFESSOR MOLECULAR BIOLOGY. A tenure position is available in the Rosenstiel Basic Medical Sciences Research Center at a joint appointment with the Graduate Department of Biochemistry. We seek candidates who are investigating basic mechanisms in biocatalysis, bioenergetics, and molecular regulation to gene expression. Curriculum vitae should be sent to: Dr. David DeRoeser, Rosenstiel Basic Medical Sciences Research Center, Brandeis University, P.O. Box 9110, Waltham, MA 02254-9110. The deadline for applications is 1 March 1989. Brandeis University is an Equal Opportunity/Affirmative Action Employer.
The newly created Department of Ecology invites applications for a

**POSITION IN ECOLOGY,**

behavioral ecology, physiological ecology, population genetics or evolutionary biology. Our research projects aim at combining theoretical and empirical as well as ultimate and proximate approaches to the study of adaptation. The animals under study are mainly amphibians and birds, but other vertebrate taxa are not excluded.

Applicants must possess a Ph.D., some postdoctoral experience is also desirable. The successful candidate is expected to participate in ongoing research and teaching programmes and to develop his/her own programme. The position is available from January 20th 1989 for a period of three years. If you are interested, please, send me your application with curriculum vitae, list of publications, summary of research goals and letter(s) of reference.

Prof. Dr. Heinz-Ulrich Reyer
Zoologisches Institut
der Universität Zürich
Winterthurerstrasse 190
CH-8057 Zürich
Schweiz

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**POSTDOCTORAL RESEARCH ASSOCIATE**

**HST OBSERVATIONS AND DATA ANALYSIS**

The Laboratory for Atmospheric and Space Physics of the University of Colorado invites applications for the position of Research Associate. We anticipate an opening beginning in the fall of 1989 for participation in observations and data analysis for the Hubble Space Telescope (HST). The undersigned is the Principal Investigator for the Goddard High Resolution Spectrograph (GHRS) and the activities deal with the ultraviolet spectroscopy of comets and GHRS Team Projects covering a wide range of astrophysics.

LASP facilities include the data analysis and operations control center for the Solar Mesosphere Explorer mission; a development node of the Planetary Data System; a complete space instrument design, fabrication, test and calibration facility; and modern computer facilities. In addition, there is an ongoing sounding rocket program, and payloads for shuttle-launched missions are being developed. The Laboratory is an Institute of the University’s Graduate School and has close ties with the Departments of Astrophysical, Planetary and Atmospheric Sciences and of Aerospace Engineering Sciences.

A doctorate in an appropriate discipline is required; salary will be in accord with experience. Send letters of application with an up-to-date resume and the names of two references to:

Dr. John C. Brandt, PI-GHRS
LASP/University of Colorado
Campus Box 392
Boulder, CO 80309-0392

Applications will be accepted until February 1, 1989. The University of Colorado has a strong institutional commitment to the principle of diversity in all areas. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities and disabled individuals.

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**Pulmonary Research Technician**

Pfizer Central Research has an immediate opening for a laboratory assistant in the Pulmonary Group within the Department of Immunology and Infectious Diseases. You will participate in a project designed to evaluate the efficacy of novel compounds in the treatment of pulmonary diseases.

You must have at least a BS in Physiology or Biology and experience with pulmonary pharmacology. Ideally, this experience should include the development of aerosol drug delivery systems and the measurement of the mechanics of respiration.

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and the opportunity to live in an attractive southeastern Connecticut shore community. Please send a resume, description of research accomplishments and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
The University of Minnesota, Duluth, invites applications for

ASSOCIATE DIRECTOR position available immediately in the Laboratory of Molecular Genetics, which is a major contributor to the University's B.S., M.S., and Ph.D. curricula. The successful candidate will: (i) have a strong background in the measurement of circulating hormones and factors by radioimmunoassay, competitive protein-binding assays, and technology; (ii) be an NIH-funded principal investigator; and (iii) engage in developmental, behavioral, and psychological aspects of the research. The University of Minnesota is an Equal Opportunity/Affirmative Action Employer.

The University of Minnesota, Duluth, is an Equal Opportunity/Affirmative Action Institution. The University of Minnesota is an Equal Opportunity/Affirmative Action Institution.
Dean, School of Ocean and Earth Science and Technology
University of Hawaii at Manoa

The University of Hawaii at Manoa, a land- and sea-grant institution with an enrollment of 18,000 students, is seeking a distinguished scholar-administrator to lead its newly-formed SCHOOL OF OCEAN AND EARTH SCIENCE AND TECHNOLOGY. The University is committed to establishing the new School as the international leader in ocean and earth sciences. The School includes the personnel of the Departments of Geology and Geophysics, Meteorology, Oceanography, and Ocean Engineering; of the Hawaii Institute of Geophysics, the Hawaii Institute of Marine Biology, and the Hawaii Natural Energy Institute; and the Sea Grant College Program, the Hawaii Undersea Research Laboratory, and the Joint Institute for Marine and Atmospheric Research. These units are staffed by a total of 247 faculty members and research personnel.

The University presently operates two research vessels, two subsuribles, and various complementary facilities and laboratories. The University is beginning construction of a new building to house the School and will provide substantial support for additional positions, equipment, and other facilities necessary to achieve its goal.

Applications must have: a Ph.D. or equivalent degree in a relevant field; a distinguished, internationally established reputation in research so as to qualify for appointment at full professorial rank within one of the departments of the School; a commitment to the importance of teaching in the School; experience in obtaining programmatic support; and experience in the international science arena. The Dean will serve as the spokesperson for the School within the University and to the public at both the state and federal levels.

Specifically, applicants should have from 3-5 years of experience in academic administration in higher education, including responsibility for a major budgetary program of research and/or instruction in ocean or earth science, or some equivalent combination; knowledge of academic administration, budgetary principles and practices, philosophy of higher education and scientific research, student services policies and programs, and management principles and practices. Further, they should be able to exercise academic leadership at the university, national, and international levels; establish and maintain effective and harmonious relationships with students, faculty, administrators, support staff, and representatives of public groups and officials of national and international organizations; organize, direct, and coordinate an extensive, complex organization; and develop and implement policies and procedures.

Salary will be highly competitive and commensurate with experience. The position should be filled by August 15, 1989, or as soon thereafter as possible. Applicants should submit a letter of application, a resume, and the names of at least four references (with addresses and telephone numbers) no later than February 24, 1989. Nominations must be received by January 20, 1989.

Applications, nominations, and requests for additional information should be sent to:
Dr. David W. Greenfield
Dean, Graduate Division
University of Hawaii at Manoa
2540 Maili Way, Spalding 306
Honolulu, Hawaii 96822

The University of Hawaii at Manoa is an Affirmative Action, Equal Employment Opportunity employer. Women and minority candidates are encouraged to apply.

Immunology Opportunities

BOHRINGER INGELHEIM PHARMACEUTICALS, Inc., a major researcher, developer, manufacturer and marketer of prescription and over-the-counter drugs, currently has openings in the Immunology Section at its Research and Development Facility in DANBURY, CONNECTICUT.

Currently we have the following positions available:

Senior Immunologist: Qualifications include a Ph.D. with 1 to 3+ years research laboratory experience in Cellular Immunology. Experience in bone marrow transplantation and tumor immunology (including metastases). Knowledge of cell homing patterns and lymphocyte trafficking along with a working knowledge of cytotoxic lymphocytes and their interaction with target cells. Successful candidate will develop experimental models in transplantation, (transplantable and spontaneous tumors and metastases) as well as develop systems to study the interaction of the host immune response to foreign tissue and neoplasia. RESPOND TO DEPT. PTG-15-866.

Immunologists: Qualifications include a BS Degree with 3 to 7+ years of laboratory research experience or an MS Degree with 1 to 3+ years research laboratory research experience in Immunology or related disciplines. Experience in cellular immunology, tissue culture and experimental models in immunology; knowledge of lymphocyte cell-cell interaction, as well as working knowledge of transplant models and tumor immunology. Successful candidate will assist in design, execution and interpretation of experiments for studies of organ, tissue and bone marrow transplantation. RESPOND TO DEPT. PTG-15-901.

Our state-of-the-art environment is combined with a highly competitive compensation and benefits package, relocation assistance, and excellent work environment and the opportunity to have your contributions recognized.

Please send your resume and salary requirements indicating stated dept code to: BOHRINGER INGELHEIM PHARMACEUTICALS, Inc., 90 East Ridge, P.O. Box 368, Ridgefield, CT 06877. We are an equal opportunity employer m/f/h/v.

Boehringer Ingelheim
**CELL BIOLOGIST, BIOPHYSICIST, STRUCTURAL BIOLOGIST, MOLECULAR BIOLOGIST**

The Department of Biology, Columbia University, College of Physicians and Surgeons, 30 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**TWO BIOLOGY TENURE-TRACK POSITIONS**

1) **DEPARTMENTS CHAIR, PROFESSOR.** September 1989. Ph.D. in biological science. Research record and exemplary undergraduate teaching. Half-time administrative duties for directing ten-member department. Letters of recommendation must have M.D. and/or Ph.D. degree and proven abilities as laboratory investigators. The Department is especially interested in candidates who wish to address contemporary questions in the molecular function, especially as they pertain to the biology of leucocytes, endodermal cells and epithelial cells, and to the roles of cytokines in modulating these functions. Applicants should send a letter describing their research interests, curriculum vitae, and the names, addresses and telephone numbers of at least three references to: Samuel C. Silverstein, M.D., Chairman, Department of Physiology and Cellular Biology, Columbia University, College of Physicians and Surgeons, 30 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.


**BOTANICAL SYSTEMATIST**

L. H. BAILEY HORTORIUM, CORNELL UNIVERSITY

The Liberty Hyde Bailey Hortorum is seeking a very capable systematist to serve as Chair of the unit. Rank and tenure are dependent on qualifications. Duties will include a vigorous research program and participation in relevant administrative programs. Applicants must have a Ph.D. with expertise in modern systematic theory and methods. Salary commensurate with experience. Position available January 1990.

Applicants should submit curriculum vitae, statement of research interests, and the names, addresses and telephone numbers of three references to: Kevin C. Nixon, Chair of Search Committee, L. H. Bailey Hortorum, 462 Mann Library Building, Cornell University, Ithaca, NY 14853.

Application deadline is 1 March 1989. The Bailey Hortorum is a unit within the Division of Biological Sciences and New York State College of Agriculture and Life Sciences. Cornell University is an Equal Opportunity/Affirmative Action Employer.

**CELL BIOLOGIST, ASSISTANT PROFESSOR.** Tenure-track position. To start September 1989. Ph.D. and expertise in plant tissue culture and genetic engineering required. Salary negotiable (probable range: $25,000 to $32,000). Teaching undergraduate courses in cell biology and general biology and a graduate course in area of expertise and advising undergraduates and graduate research. Applicants should provide a letter of research and teaching interests, curriculum vitae, official undergraduate and graduate transcripts, three letters of recommendation, and a brief statement of professional goals to: W. McWhirr, Hiring Committee, Biology Department, Towson State University, Baltimore, MD 21204. Deadline for completed application, 1 February 1989. An Equal Opportunity/Affirmative Action Employer.

**CELLULAR AND MOLECULAR BIOLOGY**

The Department of Physiology and Cellular Biophysics invites applications for two new tenure-track FACULTY POSITIONS. Appointments will be made at a rank commensurate with the candidates' qualifications. Applicants must have M.D. and/or Ph.D. degree and proven abilities as laboratory investigators. The Department is especially interested in candidates who wish to address contemporary questions in the molecular function, especially as they pertain to the biology of leucocytes, endodermal cells and epithelial cells, and to the roles of cytokines in modulating these functions. Applicants should send a letter describing their research interests, curriculum vitae, and the names, addresses and telephone numbers of at least three references to: Samuel C. Silverstein, M.D., Chairman, Department of Physiology and Cellular Biophysics, Columbia University, College of Physicians and Surgeons, 30 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

The Department of Health Sciences at East Tennessee State University invites applications for tenure-track positions to begin Fall 1989. The Chair will provide administrative leadership for a multifaceted service department which offers a B.S. and M.S. in microbiology, as well as a minor in research in health sciences. Other responsibilities include teaching, grant writing, research, student advisement and service. Minimum qualifications include a Ph.D., Dr.P.H., or equivalent with a strong background in microbiology/immunology. Evidence of prior leadership and administration in health sciences is desirable. Applications and three letters of recommendation are requested. Review of applicants will begin 15 October 1989. Send letter of application, curriculum vitae, and telephone numbers of three professional references to: Dr. Alganize W. Freeman, Dean of Biology, East Tennessee State University Johnson City, TN 37614

The Latin America Science Program of The Nature Conservancy is seeking candidates for two positions: CHIEF BOTANIST and CHIEF ZOOLOGIST. Responsibilities include chairing department of five full-time faculty, and teaching introductory lectures and laboratory. Qualifications include experience as department head or significant committee responsibilities. Ph.D. required. Active research program expected, preferably involving students. Rank and salary commensurate with experience and qualifications. Send curriculum vitae, names and telephone numbers of three references to: Dr. Myra K. Jaspan, Curriculum Coordinator, Nature Conservancy, 1815 N. Lynn Street, Arlington, VA 22201. Closing date: 15 September 1989. An Equal Opportunity Employer.

**BIOPHYSICAL SOCIETY CONGRESSIONAL SCHOLARSHIP FELLOWSHIP**

The Biophysical Society is sponsoring a Congressional Science Fellowship for the 1989–1990 academic year. This program provides accomplished scientists the opportunity to integrate into the legislative process. Applications are due to: Dr. Myra K. Jaspan, Curriculum Coordinator, Nature Conservancy, 1815 N. Lynn Street, Arlington, VA 22201. Closing date: 15 September 1989. The Nature Conservancy is an Equal Opportunity Employer.

**BODEGA MARINE LABORATORY UNIVERSITY OF CALIFORNIA, DAVIS CELLULAR/ORGANIC BIOLOGIST**

The Bodega Marine Laboratory, a research unit of the University of California, Davis, invites applications for a tenure-track position as an assistant, associate, or full professor. Applicants must have a Ph.D. (or equivalent), significant postdoctoral research experience and have demonstrated excellence in research. Preference will be given to candidates with expertise in developing techniques in cellular and molecular biology who have demonstrated an interest in applying that expertise to research problems in organismic biology. We particularly encourage applications from those whose research will take advantage of the varied and abundant species found along the Northern California coast where the Laboratory and its surrounding natural reserve are located. In addition to research and teaching, the appointee will serve as the Laboratory's coordinator for research and instruction in cellular and organismic biology, alongside counterparts from population biology and aquaculture and fisheries. The appointee will be expected to be in full-time residence at the Laboratory and will have an academic appointment in the Department on the Davis campus. Applicants should provide a letter of research and teaching interests, curriculum vitae, two or three selected publications, and the names and addresses of three references to: Dr. James S. Clegg, Bodega Marine Laboratory, P.O. Box 247, Bodega Bay, CA 94923. The Selection Committee will begin review of applications on 1 February 1989; the position will remain open until filled. The University of California is an Equal Opportunity/Affirmative Action Employer.

**CHAIRPERSON—DEPARTMENT OF BIOCHEMISTRY—Temple University School of Medicine is seeking an individual with demonstrated administrative and research experience in an area related to biochemistry. The Department currently has excellent research and graduate programs, and effective collaborative arrangements with the Fels Institute for Cancer Research and Memorial Sloan-Kettering Cancer Center at the Broad and Temple University. As one of the five medical schools in the Philadelphia area, there are excellent opportunities for collaboration with other institutions, the Fox Chase Cancer Center, and several major pharmaceutical companies in the Delaware Valley and surrounding area. Applications and nominations together with curriculum vitae may be sent to: John J. O'Neill, Ph.D., Chair, Search Committee, Department of Pharmacology, Temple University School of Medicine, 3400 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer.

**CHIEF PHYSICIAN**

**BIOLOGICAL SOCIETY CONGRESSIONAL SCHOLARSHIP FELLOWSHIP**

The Biophysical Society is sponsoring a Congressional Science Fellowship for the 1989–1990 academic year. This program provides accomplished scientists the opportunity to integrate into the legislative process. Applications are due to: Dr. Myra K. Jaspan, Curriculum Coordinator, Nature Conservancy, 1815 N. Lynn Street, Arlington, VA 22201. Closing date: 15 September 1989. The Nature Conservancy is an Equal Opportunity Employer.
POSITION ANNOUNCEMENT
DIRECTOR
INSTITUTE ON GLOBAL CONFLICT AND COOPERATION
UNIVERSITY OF CALIFORNIA

The University of California invites applications and nominations for the position of Director of the Institute on Global Conflict and Cooperation (IGCC), a University of California multicampus research unit funded by the Regents of the University of California, the State of California, and private foundations. The mission of the Institute is to enhance the capability of the University of California to contribute to international security and cooperation through research, education, and special projects. Through a variety of programs—research grants, graduate fellowships, summer seminars, lectureships, conferences, and publications—the institute seeks to discover ways to prevent or reduce conflicts that may lead to escalation into large scale conventional or nuclear war and to promote forms of international cooperation which promise to solve problems threatening world peace.

Candidates must be qualified for appointment as a senior faculty member of the University of California and be prepared to assume the directorship at the San Diego campus of the University, the current location of the Institute. The director of the Institute reports to the President of the University of California. He or she provides leadership and visibility to the Institute, in addition to being responsible for its array of regular activities as a multicampus research unit of the University of California. These activities include soliciting research proposals, creating task forces, colloquia and study groups, conducting conferences and seminars, securing extramural research support, promoting educational and public service programs, and coordinating intercampus projects. The director will be assisted in these activities by a steering committee and staff. Teaching responsibilities and departmental affiliation are subject to negotiation.

Qualified women and minority candidates are urged to apply. Please send nominations or applications, including cv's and the names of four references, to:

IGCC Search Committee
Professor Randolph Swenson, Chair
358 University Hall
Office of the President
University of California
Berkeley, CA 94720

Candidates who send their complete applications by February 17, 1989 will receive full consideration. The position will remain open until final decisions are made by the Search Committee.

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

PHARMACOLOGIST

Marion Laboratories, Inc., one of the fastest growing pharmaceutical companies in the United States, headquartered in Kansas City, Missouri, has an opening for an experienced Pharmacologist within our Pharmacology department in Kansas City.

Primary responsibilities will be to conduct preclinical pharmacological research and to assist in the preclinical evaluation of various agents which includes specific enzyme inhibitors.

The successful candidate will have a Ph.D. in Pharmacology or Biochemistry and at least three years of experience in basic biochemistry and pharmacology. Experience with setting up animal models and drug testing in vivo and in vitro is required. Strong interpersonal and communication skills are essential.

We offer an excellent total compensation and benefits package, including bonus, stock options, profit sharing, comprehensive group health, dental and life insurance. Please send a detailed resume, including salary history, in confidence to: Marion Laboratories, Inc., Recruiting & Placement, Dept. CNA, P.O. Box 9627, Kansas City, MO 64134. Equal Opportunity Employer.

CSIRO
An Uncommon Opportunity

SENIOR RESEARCH SCIENTIST
or
PRINCIPAL RESEARCH SCIENTIST

$A38,203-$A51,552

DRIED CROPS AND SOILS RESEARCH UNIT
Laboratory For Rural Research
Floreat Park
PERTH WA, AUSTRALIA

THE DIVISION: The Dryland Crops and Soils Research Unit was established by the Division of Plant Industry and the Division of Soils to undertake research necessary to improve agricultural production through the development of new and improved crops and pasture plants and the improved management of Australian soils. The Unit of seven plant and soil scientists plus support staff is based in the Laboratory For Rural Research, Floreat Park, Western Australia.

THE PROGRAM: The aim of the program is to develop improved management systems for sustainable dryland crop production in the coarse textured and texture contrast (duplex) soils in the Mediterranean climatic zones of Australia. The two major interests of the Unit are the optimization of water and nitrogen use efficiency in lupines and wheat. The Unit has new laboratories, glasshouse, and rainout shelter facilities at Floreat Park and established field research sites at three locations across the cereal growing regions of Western Australia.

THE JOB: To develop both soil and plant management strategies to improve the currently low and variable yields of cereals and grain legumes on duplex soil by focussing attention on the physical and chemical constraints which occur, particularly at the sand/clay interface. Specifically, to improve root penetration and water uptake in clay subsoils, by investigating the physico-chemical properties of the interface, and root reactions to these.

THE PERSON: Applicants should have a PhD in soil science, agricultural science, or have equivalent qualifications, with a record of considerable research achievement in these areas. Previous experience in clay surface density, plant nutrition and soil properties would be an advantage. Applicants should have a desire to work in the field as well as controlled laboratory environments and be prepared to work in a team with other scientists from the Unit, the University of Western Australia and the Western Australia Department of Agriculture.

CONDITIONS: Appointment will be for an indefinite period or a term of three years depending upon qualifications and circumstances. Australian Government superannuation benefits available.

MORE INFORMATION: Prospective applicants are invited to telephone Dr N.C. Turner 61 9 387 0622 for further information. A copy of the detailed duty statement and selection criteria are available from Mrs Pru Yendle at the address below or by phoning 61 9 387 0200.

APPLICATIONS: Applications should be submitted by 4 weeks after publication and quote reference number A0648, stating relevant personal particulars including details of qualifications and experience. Applicants should nominate at least two professional referees, and address their applications to:

Officer-In-Charge
CSIRO
Dryland Crops and Soils Research Unit
Laboratory For Rural Research
Private Bag, PO
WEMBLEY WA 6014
AUSTRALIA

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

CSIRO
A USTRALIA
DEAN OF SCIENCE
THE AMERICAN MUSEUM OF NATURAL HISTORY
The American Museum of Natural History invites applications and nominations for the position of Dean of Science. This is a vice presidential level position reporting directly to the President. The Dean is responsible for the administration and development of the Museum’s science departments. The successful candidate will have a Ph.D. and 10 years of science administration experience. Send curriculum vitae, names of three references, and a statement of interest to: Dr. David Pleasure, Department of Science, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192.

DEPARTMENT CHAIRPERSON
Department of Health Related Professions, University of Pittsburgh. Applications and/or nominations are invited for the position of Department Chairperson to replace retiring Chairperson. A Ph.D. nutritionist or an M.D. with nutrition training and experience is required. Candidate should have research experience, demonstrated ability to attract external funding, and a commitment to the education of dietitians/nutritionists. A baccalaureate degree through both Coordinated and Plan IV programs and a Master of Science degree are offered. Planning for broadening the department's teaching mission and research activity is underway. Position responsibilities include: department administration, development of research activity, and maintaining and expanding collaborative activities with the five other university schools and the university health center acute and ambulatory care facilities. Position is available 1 September 1989. Application deadline: 1 December 1989. Send curriculum vitae, names and addresses of the five references to: Tonic Zucaro, School of Health Related Professions, University of Pittsburgh, Pittsburgh, PA 15261. Equal Opportunity Employer.

DEVELOPMENTAL BIOLOGIST
MCGILL UNIVERSITY
The Department of Biology invites applications for a tenure-track position at the assistant professor level, effective 1 September 1989. We seek a developmental biologist using cellular, molecular, and/or genetic approaches. The successful candidate is expected to establish a research program and to participate in teaching developmental biology. Send curriculum vitae, a statement of research interests and goals, representative reprints, and three letters of reference to: Dr. John R. Clem, Chair, Search Committee, c/o Provost’s Office, 110 Beardmore Hall, Ithaca, NY 14853-2703. The deadline for applications will be 15 January 1989, or until the position is filled. Equal Opportunity Employer.

DIRECTOR PLANT CELL CULTURE
AND TRANSFORMATION FACILITY
CORNEL PLANT CELL CENTER
Facility Director (Senior Research Associate, Ph.D.) to administer a central research facility which has the following missions: i) training of scientists in techniques of plant tissue culture and gene introduction; (ii) provision of state-of-the-art equipment and assistance to produce transgenic plants. In addition to facility management, the director will carry out independent research in the area of experimental analysis and transfer of plant genes, and will play a key role in organizing and teaching periodic workshops and training courses in plant and microorganism transformation. To apply, send curriculum vitae and three letters of reference to: Plant Science Center, Biotechnology Program, 120 Biotechnology Building, Cornell University, Ithaca, NY 14853-2703. Applications are invited from candidates qualified to serve as a Director of this facility. Equal Opportunity/Affirmative Action Employer.

DOCTORAL RESEARCH ASSOCIATE
Position available immediately to study the immune responses of aged individuals. Candidates should be well versed with the techniques of cellular immunology and immunoneurochemistry, and have experience in bacterial microbiology. Ph.D. and 2-3 years of postdoctoral experience required. Salary: $21,000. Send curriculum vitae and three references (names and addresses) to: Ma. Tillie Moore, Cabinet for Human Resources, KY # 788595, Department for Employment Services, 300 South Upper Street, Lexington, KY 40508.

ECOSYSTEM MODELER AND QUANTITATIVE LANDSCAPE ECOLOGIST
San Diego State University Foundation has positions available in the Systems Ecology Research Group for investigating Arctic ecosystem dynamics and landscape patterns. Openings at the postdoctoral, assistant or associate research scientist levels are available, depending on experience. Successful applicants will be part of a multi-university research team that is conducting field and laboratory experiments, synthesizing available data and developing models of ecosystem response to disturbance. Opportunities for travel to Alaska and collaborating universities. Previous experience with modeling, geographical information systems, and quantitative analysis is highly desirable. For additional information, contact: Dr. James F. Reynolds at 619-594-2887.

DIATOM TAXONOMIST—To identify and enumerate diatoms of the Great Lakes, regular full-time position. Experience in biological systematics and the Great Lakes is preferred. U.S. Education and experience in diatom taxonomy. Familiarity with Cylotella and Stephanocephus species very helpful. Will also participate in annual cruise on the Great Lakes with U.S. E.P.A. Great Lakes National Program Office. Send curriculum vitae plus three references to: Dr. James K. Tiller, Department of Natural History, E.I. du Pont de Nemours & Co., Inc., U.S. E.P.A., 10th Floor, 536 South Clark Street, Chicago, IL 60605. Equal Opportunity Employer.

EQUITY PROFESSIONAL
The Division of Neurosurgery at the University of California, San Francisco is seeking qualified candidates for the following position.

Professor to be the DIRECTOR OF NEUROSURGICAL RESEARCH. Applicants should have a Ph.D. in biomedical sciences and at least 4 years of postdoctoral training, plus a minimum of 10 years in faculty positions. Applicants should have expertise in the areas of biochemical mechanisms of brain injury, development, pharmacological agents, and cell culture.

ASSISTANT PROFESSOR—Research track: applicants should have a Ph.D. and expertise in data management and statistics, social and psychological outcome assessment, and qualitative and quantitative analysis of immune response to significant disease states, including brain injury, and management of research grants and contracts required.

The successful applicant is expected to assist in the continued development and implementation of our extensive program of research in traumatic brain injury. He or she will plan and implement fiscal management, administer program budgets, and supervise support staff. Send curriculum vitae and references to: Eugene S. Flamm, M.D., Chairman, Neurosurgery, University of California, San Francisco, Room 112, 3400 Spruce Street, San Francisco, CA 94118. Applications from women and minority candidates are encouraged.

The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.
UNIVERSITY OF NEVADA, LAS VEGAS
4505 Maryland Parkway, Las Vegas 89154
A Young, Proud, and Growing University

VACANCY ANNOUNCEMENT

Position Title: Dean of the College of Science and Mathematics

Applications and nominations are invited for the position of Dean of the College of Science & Math at UNLV. The appointment will commence July 1, 1989. UNLV has an enrollment of approximately 15,000 students.

The College: The College of Science and Mathematics consists of five departments: Biological Sciences, Chemistry, Geosciences, Mathematical Sciences, and Physics. There are 60 full-time and 40 part-time faculty, 1342 undergraduates and 67 graduate students in programs housed in the College. All departments offer programs leading to the B.S. and M.S. degrees.

The Position: The Dean is the chief academic officer of the College and reports directly to the Senior Vice President and Provost. The Dean has responsibilities in matters of curriculum, budget, personnel selection, evaluation of current programs, and development of new ones, and management of academic, fiscal, physical, and human resources. The Dean shall further the goals of the College and campus and be committed to:

- Excellence in undergraduate education
- Continued growth and development of graduate programs
- Support for and expansion of faculty scholarship
- The promotion of academic policies consistent with long range planning capitalizing on present and emerging departmental strengths
- The expansion of research activities in concert with the mission of the College and the Departments
- The provision of facilities adequate to support expanding College programs
- The expansion of cooperative interactions with both local and other governmental and private organizations.

Qualifications: The candidate must be a creative, resourceful and experienced administrator able to provide academic leadership. He or she must be committed to excellence in both teaching and research. The candidate must have a record of scholarly achievement and experience in teaching consistent with appointment as a full professor with tenure in one of the College's departments.

Salary: The salary is highly competitive.

The Application: Interested persons are encouraged to write or call for more information about this position. Applications must be submitted by February 15, 1989 and nominations by January 20, 1989. The application should consist of:

1. A letter including a discussion of educational and administrative philosophy.
2. A curriculum vitae.
3. The names, addresses of five references.

Send applications and nominations to:
Dr. John C. Unne, Sr. VP & Provost
University of Nevada, Las Vegas
Las Vegas, NV 89154
Telephone: (702) 739-3021

The University of Nevada, Las Vegas is an equal opportunity/affirmative action employer. UNLV employs only U.S. citizens and aliens authorized to work in the U.S.

RESEARCH ASSOCIATE PROTEIN BIOCHEMISTRY

Amgen, an innovative leader in applied biotechnology, has an immediate opportunity for a Research Associate to join an innovative group researching structural characteristics of peptides.

Responsibilities for this position include the characterization of physical and chemical properties of proteins as well as the evaluation of protein stability, solubility and the mechanisms of protein degradation.

Qualified applicants for this position must have a BS or MS in Biochemistry, Chemistry or a related field and research experience in protein purification and analysis including electrophoresis, column chromatography, HPLC, protein sequencing and amino acid analysis.

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

Qualified candidates should send a resume, including references, in confidence to:
Recruitment, Dept. #371
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Unigene Laboratories, a multidisciplinary biotechnology corporation emphasizing peptide hormone research, is seeking distinguished scientists for the following positions:

RESEARCH DIRECTOR
- Ph.D.- or M.D.-level scientist, minimum 10-15 years post-degree research experience.
- Extensive research program management experience, particularly in the coordination and direction of protein chemistry, molecular biology and immunology research teams.
- Broad knowledge of protein analysis/purification, molecular biology, protein expression, antibody production, immunoassay development.
- Will oversee all internal (25-30 scientists) and extramural research programs and participate in the identification of new programs.

GROUP LEADER OF PROTEIN CHEMISTRY
- Ph.D.-level scientist, minimum 7-10 years post-degree research experience.
- Broad protein chemistry expertise, particularly in areas of purification and analysis of native and recombinant proteins, enzymology, protein processing, protein refolding.
- Will be responsible for staffing (10-12 scientists), budgeting and supervision of all departmental research programs.

SENIOR SCIENTISTS IN PROTEIN CHEMISTRY
- Ph.D.-level scientists (0-7 years experience) with expertise in one or more of the above protein chemistry disciplines.

Unigene offers an excellent and comprehensive compensation package and the opportunity to work in an environment which fosters continuing professional development. Resumes containing a description of relevant experience should be sent in confidence to:
Ms. H. Deegan
Unigene Laboratories, Inc.
110 Little Falls Road
Fairfield, NJ 07006

HEALTH SCIENTISTS

ENVIRON Corporation, a leading national scientific and regulatory affairs consulting firm, is seeking highly motivated health scientists looking for challenging career opportunities in the fields of chemical risk assessment and environmental risk management. Our multidisciplinary staff assists our clients in addressing the complex issues and problems of human exposure to potentially hazardous substances in the environment.

Exciting career opportunities exist in our Emeryville, Calif. (San Francisco Bay area), Washington, D.C., and Princeton, N.J. offices for experienced and entry-level health scientists. Qualified applicants must be familiar with the concepts and methodologies for evaluating risks from human exposure to toxic chemicals in various environments. M.S./Ph.D. candidates in biochemistry, epidemiology, pharmacology, public health, toxicology, or related disciplines are required. Must possess strong analytical ability and excellent writing skills.

ENVIRON offers competitive salaries, excellent benefits and a challenging working environment. For an evaluation of your potential at ENVIRON, send your resume, writing sample, and salary history to ENVIRON Corporation, Personnel, Dept. SCIE-189, 1000 Potomac Street, N.W., Washington, D.C. 20007. We are an equal opportunity employer.
POSITIONS OPEN

ECOTOXICOLOGIST—Assistant/Associate Professor (9-month tenure track) beginning 1989 or 1990. Ph.D. and research experience in ecotoxicology required. Emphasis on developing a research program on effects of chemicals on fish and wildlife and teaching a graduate ecotoxicology course. A record of research funding required. Submit application letter, résumé, official transcripts, and three letters of recommendation by 1 March 1989 to: Dr. C. A. Carlson, Department of Fishery and Wildl. Utah State University, Fort Collins, CO 80523.


ELECTROPHYSIOLOGIST, Ph.D., with 2 years of postdoctoral experience with CNS slice or culture preparations for opening in Department of Neurology, Oregon Health Sciences University, at faculty level. Work to consist of extra- and intracellular recording from CNS explant cultures in an established laboratory at the affiliated Portland VA Medical Center. Salary range from $27,000 to $33,500, depending upon experience and qualifications. Interested persons should forward a complete list of publications and references to: Fredrick J. Sell, M.D., Professor of Neurology, Neurology Research (181N), VA Medical Center, Portland, OR 97201. An Affirmative Action/Equal Opportunity Employer.

MICHIGAN STATE UNIVERSITY ENDOWED CHAIR IN PLANT SCIENCE

Michigan State University is seeking an established scientist with experience in the biology of relevance to agriculture. The appointment will be made at a tenured level and with a salary commensurate with experience. Substantial funds will be available on a continuing basis to provide a base level of research support. A distinguished record of academic accomplishments is required. We are particularly interested in an individual with the expertise and interests to explore the applications of molecular biology to problems in agriculture. The Hamann Chair is expected to become the principal leader in creating the conditions which will facilitate the application of molecular biological techniques to problems in agriculture.

In order to assure consideration, applications should preferably be received by 1 March 1989. Interested parties should direct inquiries to: J. M. Tiede or C. R. Somerville, and send curriculum vitae to: Hannah Search Committee, MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824.

Michigan State University is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL BIOLOGIST

The Biology Department, Central Michigan University, invites applications from qualified candidates for a newly established, tenure-track, research-teaching position at the assistant or associate professor level to begin August 1989. Position responsibilities: the position will be a 50:50 research-teaching appointment. Initial research support, including laboratory start-up funds and a graduate research assistantship, are guaranteed for 2 years. After that time the individual will be expected to have generated funds for the research portion of his/her appointment. We seek an individual with a strong background in an area of environmental biology, such as microbiology, microbial ecology, or others, who utilizes recombinant DNA techniques and/or has a strong background in environmental problems or applications. The individual will also be required to teach molecular biology and/or a course in his/her area of specialization and to direct research at both the undergraduate and graduate level. Qualifications also include a Ph.D. in life sciences with both teaching and postdoctoral experience desired. Deadline for applications is February 1989. Send curriculum vitae, transcripts, description of research goals, selected reprints, and the names, addresses, and telephone numbers of three references to: Dr. Lee Reynolds, Biology Department, Central Michigan University, Mt. Pleasant, MI 48859, Telephone: 517-774-3327.

CMU is an Affirmative Action and Equal Opportunity Institution.

ENVIRONMENTAL HEALTH FACULTY—The George Washington University School of Medicine and Health Sciences seeks an assistant/associate professor level faculty to help develop and teach in a new Occupational and Environmental Health Program. Desirable background includes doctoral degree and teaching experience in environmental health policy, toxicology and/or environmental epidemiology. Opportunity to develop new and existing laboratory and field research programs and to conduct research in environmental health policy, epidemiology and clinical research areas. Send letter and curriculum vitae to: Stacey Carlisle, George Washington University School of Health Care Sciences, 2150 Pennsylvania Avenue, N.W., Floor 2B, Room 415, Washington, D.C. 20037.

EVOLUTIONARY BIOLOGIST

Emory University, Department of Anthropology and Department of Biology, seek two joint positions in evolutionary biology. Candidates' research may be in any aspect of evolutionary biology. Ability to interact effectively with faculty in both anthropology and biology programs essential. Both positions are tenure-track at the assistant professor level; for exceptional candidates, appointment as associate or full professor possible. Successful candidates must have a strong research record and a commitment to excellence in teaching. Begin 16 January 1989. Send curriculum vitae and names of references to: Peter J. Brown and Gray Cruze, Search Committee, Department of Anthropology, Emory University, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.

EVOLUTIONARY BIOLOGIST

The Department of Biology, University of North Carolina at Chapel Hill, seeks an outstanding scientist investigating evolutionary mechanisms at the population level. The appointment to enhance our program in ecology, behavior, evolution, and organismic biology will probably be made at the rank of assistant or associate professor, although all levels will be considered. Appointment will begin in July 1989 or later at the convenience of the appointee. Applicants should send current curriculum vitae, a statement of research interests, selected publications and four letters of recommendation by 1 March 1989 to: Evolutionary Biology Search Committee, Department of Biology, University of North Carolina, Chapel Hill, NC 27599-3280. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minorities.

FACULTY, MOLECULAR VIROLOGY

The Department of Ophthalmology at Washington University School of Medicine invites applicants for a position at the associate professor level to join a dynamic core research faculty with interests in infectious and inflammatory diseases that may affect the eye. The successful Ph.D. or M.D. candidate will have an active research program in molecular virology, experience with one or more occult pathogens (herpesviruses, adenovirus, HIV), and an interest in combining basic scientific methodology to the study of ocular disease processes. Previous specific experience in ophthalmic research is not required. Start-up funds, laboratory and a core resource are available. Submit curriculum vitae and three letters of reference to:

Henry J. Kaplan, M.D.
Chairman, Department of Ophthalmology
Washington University School of Medicine
Box 8096
660 South Euclid Avenue
St. Louis, MO 63110

FACULTY POSITION

The Division of Gerontology and Geriatric Medicine at University of Alabama, Birmingham (UAB), invites applications for a tenure-track faculty position at the assistant professor level. Qualifications include a Ph.D. or M.D., research and teaching experience, and demonstrated potential to work with its teaching, research, and community service programs. Must be well-qualified and experienced in planning and conducting research projects, working with community-support groups, and developing and teaching relevant courses for medical and other professional students. Appointment will begin on 15 February 1989.

Apply to: Department of Medicine/Chairman's Office, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35224, Attention: J. Claude Bennett, M.D. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF WASHINGTON CENTER FOR BIOENGINEERING

The Center for Bioengineering at the University of Washington has several FACULTY OPENINGS on either the tenure- or research-track. These openings might begin at the assistant or associate professor level. We are particularly interested in candidates with strengths in microelectronics and/or biomolecular engineering. The appointees will have the opportunity to interact with members of the Microelectronics Laboratory and the Washington Technology Center. We are seeking individuals who can develop outstanding research programs and also participate strongly in graduate student research and education. Deadline for application: 27 January 1989. Send nominations or letter of application (with curriculum vitae) to: Professor B. D. Raines, Chair, Bioengineering Faculty Search Committee, WD-12, University of Washington, Seattle, WA 98195.

Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITIONS

The Chemistry Department (ACS-accredited) of Calvin College has an opening in a tenure-track position beginning September 1989. Area: analytical, inorganic, physical, or biological chemistry. The appointment will be made preferably at the assistant professor level, although more senior levels will be considered. Calvin College is a Christian liberal arts college in the Reformed tradition. Successful applicants must affirm the goals and philosophy of education of the college. Send curriculum vitae, transcripts, a proposed research program involving undergraduate students, and three letters of recommendation to: Dr. Arie Leegwater, Department of Chemistry, Calvin College, Grand Rapids, MI 49506. The selection process will begin on 15 February 1989 and continue until the position is filled. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN INFECTIOUS DISEASE RESEARCH. Twelve-month tenure-track position. Should be interested in studying infectious disease pathogenesis, microbial virulence, microbial defense mechanisms. Training in bacteriology, immunology, molecular biology, pathology, virology or microbiology is appropriate. Will be expected to develop a competitive research program and secure external funding. The position will have a mid-level status and require a Ph.D. or equivalent Ph.D. or a.D.V.M. with M.S. or Ph.D. Rank and salary will be commensurate with record of accomplishments. Send curriculum vitae, transcript, and three letters of reference by 15 February 1989 to: Dr. John A. Schmide, Head, Department of Veterinary Pathology, Michigan State University, East Lansing, MI 48824. Telephone: 517-432-2392. An Affirmative Action/Equal Opportunity Employer.
POSTDOCTORAL FELLOWSHIPS IN MOLECULAR AND CELL BIOLOGY

Postdoctoral Fellowships are available in the Genetics and Biochemistry Branch, National Institute of Diabetes, and Digestive and Kidney Diseases, National Institutes of Health. Applications are invited from individuals of the highest caliber with Ph.D., M.D., or M.D., Ph.D. degrees. Current research interests of the staff include:

- Biosynthesis and targeting of lysosomal enzymes, the reconstitution of the cellular protein folding machinery, and the molecular genetics of Tay-Sachs disease (Rick Prolla)
- Eukaryotic DNA repair, molecular mechanisms of toxin action, and mechanisms of nuclear and cytoplasmic localization of proteins and nucleic acids in Xenopus (Eric Ackerman)
- Molecular mechanisms of homologous recombination in higher eukaryotes, the biochemistry of nucleic acid-protein interactions and the formation and recognition of DNA mismatches (Peggy Hsieh)
- Biochemistry of homologous recombination in eukaryotes and prokaryotes, immunoglobulin gene rearrangements in cell-free systems, gene targeting and gene disruption in mammalian cells and structure/function studies of the CD4 protein, the HIV receptor (Dan Camerini-Otero).

Interested candidates should send a letter stating their 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
Building 10, Room 9D-15
9000 ROCKVILLE PIKE
National Institutes of Health
Bethesda, Maryland 20892
Telephone: (301) 496-2710

NIH is an Equal Opportunity Employer

Molecular Biologist Research Associate

The Upjohn Company, a recognized leader in the research and development of pharmaceuticals, has a position available immediately to study mammalian skin and hair growth in the recently created Hairgrowth Research Unit. The successful candidate will have either a M.S. in a biological science or B.S. with a minimum of 2 years' research experience and will have experience in molecular biology and biochemistry techniques and cell/tissue culture with demonstrated potential for independent research. Experience with mammalian animal models, microscopy and skin developmental biology is highly desirable.

Upjohn is located in Kalamazoo, a mid-sized community in southwestern Michigan, midway between Chicago and Detroit. Our area offers varied cultural events, lakes and woodlands minutes away and abundant year-round sports and recreation. Upjohn offers personal and career advancement opportunities, a highly competitive salary, comprehensive benefits and relocation assistance. For confidential consideration, send your CV/resume, names of references and a research summary to: M. William Rex, Corporate Employment, The Upjohn Company, 7000 Portage Road, Kalamazoo, MI 49001. Please refer to advertisement number 23833-HA in your correspondence. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...
FACULTY POSITION: The Chemistry Department of the University of San Diego invites applications for a tenure-track assistant professor level for a recent Ph.D. in any area of chemistry (including biochemistry) with competence in analytical chemistry. The starting date is September 1, 2000. A commitment to both teaching and development of an active undergraduate research program is expected. Candidates should include a letter describing their background in analytical chemis-
try, why they are interested in this position, and the nature of the undergraduate research they intend to pursue. Send this information together with a résumé and three letters of recommendation to: D. B. Peterson, Chair, Chemistry Department, University of San Diego, San Diego, CA 92110. USD is an Equal Employment/Affirmative Action Employer.

FACULTY POSITION: TOXICOLOGY
FLORIDA A&M UNIVERSITY COLLEGE OF PHARMACY
The Florida A&M University College of Pharmacy and Pharmaceutical Sciences invites applications for a tenure-track assistant professor position in the Division of Basic Pharmaceutical Sciences. Rank and salary are negotiable and commensurate with the applicant’s qualification and experience. Candidates for the position should hold an earned D.Sc. or Ph.D. degree in toxicology or related area. The applicant should have an established and demonstrated experience in the application of biochemical, molecular and/or immunological knowledge in the study of basic toxicological problems. Responsibilities include the development and maintenance of undergraduate and graduate programs. The successful candidate is expected to compete for extramu-
ral funding beginning in the first year of the appointment. Excellence in teaching is expected. Applicants should send their curriculum vitae, summaries of research interests and objectives, and three letters of recommenda-
tion to: Dr. Willie Olberg, Florida A&M University College of Pharmacy, Box 367, Tallahas-
see, FL 32307. Applications must be received by this office on or before 15 February 1989. FAMU is an Equal Opportunity/Equal Access University.

POSITIONS OPEN
CLINCH VALLEY COLLEGE OF THE UNIVERSITY OF VIRGINIA

Founded in 1954, Clinch Valley College is a residential under-
graduate college of the University of Virginia. It is located in the Appalachian Mountains of Southwest Virginia and has a current enrollment of 1,450 students. The College offers Bachelor's degrees in the follow-
ing areas: biology, business administration, chemistry, computer information systems, elementary education, English, environmental studies, history, interdisciplinary studies, medical technology, performing arts and social science. A college major is available to students who wish to pursue an interdisciplinary degree with a focus in one of the following:

1. Faculty Position in Management/Marketing (ten-
ure-track) in the Department of Business Studies. Doc-
torate preferred, ABD will be considered.
2. Faculty Position in Molecular Biology (tenure-
track) in the Department of Natural Sciences. Ph.D.
required. This position is pending funding approval.

Applications should be sent, including résumé, all transcripts, and three letters of recommendation to:

David W. Jacobs
Dean of the College
Clinch Valley College
P.O. Box 2472
Tazewell, Virginia 24651

Clinch Valley College invites applications for the following positions. We encourage applicants from women and minorities:

1. Faculty Position in Management/Marketing (ten-
ure-track) in the Department of Business Studies. Doc-
torate preferred, ABD will be considered.
2. Faculty Position in Molecular Biology (tenure-
track) in the Department of Natural Sciences. Ph.D.
required. This position is pending funding approval.

Applications should be sent, including résumé, all transcripts, and three letters of recommendation to:

David W. Jacobs
Dean of the College
Clinch Valley College
P.O. Box 2472
Tazewell, Virginia 24651

Applications will be accepted until the position is filled. The review process will begin in February 1989.

An Equal Opportunity/Equal Access Em-
ployer. Clinch Valley College employs only United States citizens and alumni lawfully authorized to work in the United States.

FACULTY POSITIONS. Union College Depart-
ment of Biology invites applications for the following tenured positions: BIOLOGICAL or DEVELOP-
MENT GENETICIST to teach in a general genetics course and one or more upper-level courses. PHYSI-
OLIST or NEUROBIOLOGIST to teach animal physiology and at least one other advanced course. Union College is a small selective undergraduate institu-
tion with particular strength in science and engineering. The diverse Biology Department has 13 full-time faculty. Candidates must have a strong commitment to both teaching and research. A Ph.D. is required and postdoc-
toral and teaching experience is desirable. Funding for research is provided in part by the College and several outside grants, including a major grant from the Hughes Foundation which will provide the successful applicants with funds for microscope and, in their first year, a summer research salary and a reduced teaching load. Send your application and the names of three references by February 1, 1989, to: F. M. Cardwell (Chemical Biology), or Dr. Robert Olberg (for physiologist), Department of Biological Sciences, Union College, Schenectady, NY 12308. Union College is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS: SECTION OF IMMUNOBIOLOGY
YALE UNIVERSITY

The Section of Immunobiology seeks applicants for several ladder faculty positions at the level of assistant professor in the general area of immunobiology. Quali-

fied candidates in all areas of immunobiology are invited to apply, and would be expected to develop an independent research program in molecular, cellular, biological or biochemical approaches to immunological problems. They will also be expected to participate in departmental teaching at both the graduate and undergraduate levels. Candidates should have a Curriculum vitae with a sum-
mary of present and future research interests, and request that three letters of recommendation be sent no later than 15 February 1989 to:

Dr. Richard Flavell
Chairman
Section of Immunobiology
Yale University School of Medicine
310 Cedar Street
P.O. Box 3333
New Haven, Connecticut 06510

An Equal Opportunity/Affirmative Action Employer. Wom-
en and minority candidates are encouraged to apply.

FACULTY POSITIONS OPEN
DREXEL UNIVERSITY COLLEGE OF INFECTIOUS DISEASES STUDIES

Applications and nominations are invited for two anticipated tenure-track positions, September 1989, in the College of Information Studies, Drexel University. The College is dedicated to teaching and research in the information field, especially in creation of its human, social and technological aspects. Drexel University sup-
ports the College with a wide range of information and computer engineering courses, including communications, business administration, computer science and computer engi-
neering, and with an appropriate range of facilities and equipment. The New York-Philadelphia-Washington region provides a rich context for research, teaching, and consulting in the information industry.

Tenure-track positions are available for candidates prepared to develop courses and research in the follow-


FULL PROFESSOR IN NUTRITION AND COMMUNITY STUDIES.

FULL PROFESSOR IN NUTRITION AND COMMUNITY STUDIES. Nationally and intern-
ationally recognized nutrition scientist with training and experience in one of the following related areas: nutritional epidemiology, nutritional anthropology, physical growth and performance, nutrition education, community/public health nutrition. Experience in un-
iversity teaching with publication and funding record sufficient to merit the rank of full professor. Will estab-
lish, fund, and direct graduate research in area of ex-
pertise; teach graduate and undergraduate courses. Applica-
tions will be accepted until position is filled. Send letter of application, curriculum vitae, transcripts, and names and addresses of three references to: Dr. Eleanor Williams, Department of Human Nutrition, University of Maryland, College Park, MD 20742.

HYDROLOGIST/MODELER
WATER SCIENCES PROGRAM
HOLCOMB RESEARCH INSTITUTE BUTLER UNIVERSITY
Postdoctoral research position lasting 2+ years avail-
able in Water Sciences Program. Will be involved with research programs and technology transfer activities of the International Ground Water Modeling Center (IGWMC), in the areas of support, data, and effects of contaminant in surface and underground water systems, and on conjunctive use of water resources and the application of research findings in water resources management. Qualifications: Ph.D. in hydrogeology, water resources. Graduate work should be related to surface-substrate system interaction with emphasis on hydrology and/or biogeochemical activity. HRI pursues a strongly internationally recognized inter-
disciplinary environmental research program integrating life, earth, and physical sciences. The program will form an organizational framework for the research and technology transfer activities in groundwater modeling for the Institute’s Water Sciences Program.

Send one, or more, transcript, résumé, and names of three professional references to: Paul K. M. van der Heijde, Holcomb Research Institute, Butler University, Indianapolis, IN 46208.

An Affirmative Action and Equal Opportunity Employer.
BUILDING A NEW LAB?

LET THE SCIENCE FREE 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 WE WILL DO THE REST.

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1515 BROADWAY
NEW YORK, N.Y. 10036
POSITIONS OPEN

FRESHWATER BIOLOGY

The Department of Biology at The University of Mississippi invites applications and nominations for academic tenue-track faculty positions in its expanding Freshwater Biology Program. The incumbents will conduct extramurally funded research using the University of Mississippi's 17,000-acre Biological Science Complex including over 140 mesocosm ponds, teach in the undergraduate and graduate curricula, direct graduate students at the M.S. and Ph.D. levels and provide research and professional service. Earned doctorate, research experience, and publications in appropriate field required. This position is open until the position is filled. Send curriculum vitae, three letters of recommendation to: Dr. Kenneth Redfield, Coordinator, Illinois Legislative Staff Internship Program, Sangamon State University, Springfield, IL 62794-9543.

INSTRUCTOR OF PHYSIOLOGY

Applications are solicited for a temporary, full-time, non-tenure stream position for a supplemental instruction program in physiology. Instructor will be responsible for attending first-year medical physiology classes and conducting supplemental instruction sessions on the material for medical students with diverse educational backgrounds. Instructor must also be able to teach human histology, human anatomy, and human biochemistry. Experience teaching anatomy and physiology is desirable. It is anticipated that the positions will be filled at the assistant professor level, beginning in Fall 1989. More senior appointments may be considered for experienced candidates, with a current record of funded research, who can utilize the pond facilities available at the Biological Station. Please submit applications (including letter of application, curriculum vitae, description of current and future research interests, names and telephone numbers of at least three individuals willing to provide letters of evaluation) by 6 February 1989 to: Search Chairman, A.V. Jameson, Chairman, Department of Biology, The University of Mississippi, University, MS 38677.

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

INSTRUCTOR OR ASSISTANT PROFESSOR—MICROBIOLOGIST

A tenure-track position for a neuropharmacologist with broad experience in neurosciences is available in the Department of Basic Sciences, University of Illinois College of Medicine at Peoria. Responsibilities: participate in curricular development and in teaching pharmacology to medical students and residents; conduct original investigations in neuropharmacology and related areas. Requirements: Ph.D. in neuropharmacology, neurochemistry, neurophysiology, biochemistry, or cell biology or an M.D. degree with biomedical training and/or experience; publication record in neurosciences; strong potential for extramural funding of research. A documented excellent teaching record in medical school and approved medical school students is preferred. A minimum of 2 years of postdoctoral experience is preferred. Position available 1 March 1989 or after. Salary and rank commensurate with qualifications. The University of Illinois is an Equal Opportunity/Affirmative Action Employer. Send curriculum vitae and names of three references to: Phillip C. Jobe, Ph.D., Professor and Chair, Department of Basic Sciences, University of Illinois College of Medicine at Peoria, P.O. Box 1649, Peoria, IL 61650. Applications will be received until the position is filled.

The U.S. Department of Agriculture, Agricultural Research Service, is seeking applications for a postdoctoral position, MICROBIOLOGIST/MOLECULAR BIOLOGIST, for the National Animal Disease Center, Brucellosis Research Unit, in Ames, Iowa. The position is temporary, full-time. Responsibilities include the application of recombinant DNA technology, and isolation and characterization of Brucella proteins and lipopolysaccharides for use in the development of improved subunit vaccines and diagnostic tests for bovine brucellosis. Salary in the range of $28,852 to $37,510. For program and position information, contact: Dr. George Lambert on 515-239-8204. For information on submission of application forms, contact: Janie Carr on 312-344-2756. Applications in response to this ad should be marked R0001. Applications must be mailed no later than 1 February 1989.

Molecular Carcinogenesis

A POSTDOCTORAL POSITION in molecular carcinogenesis is available immediately to study molecular responses to DNA damage in mammalian cells. Training in molecular, cellular and immunological approaches is desirable. Submit curriculum vitae and three letter of reference.

A RESEARCH ASSISTANT position is available immediately within the molecular carcinogenesis program. The candidate should have a B.S. in biological science, experience in protein purification and molecular biology techniques preferable. Submit curriculum vitae to:

American Health Foundation
Molecular Carcinogenesis Program
Department of Pathology and Toxicology
Valhalla, NY 10595
An Equal Opportunity Employer M/F/H/V.

POSITIONS OPEN

ILLINOIS LEGISLATIVE INTERNSHIP PROGRAM

Sangamon State University invites applications from graduates of science or education programs (baccalaureate, masters, doctorate) for two 10-month science internships beginning 1 October 1989 as part of the Illinois Legislative Internship Program. The science internships will be assigned to Springfield or Chicago offices of the Illinois Legislative Research Unit which provide legislators with important research on policy issues. The science internments will participate in an academic seminar with other legislative interns. Curriculum vitae and an application must be filed by 1 March 1989. For applications contact: Dr. Kent Redfield, Coordinator, Illinois Legislative Staff Internship Program, Sangamon State University, Springfield, IL 62794-9543.

POSITIONS OPEN

INVERTEBRATE ZOOLOGIST/FIELD ECOLOGIST

Marietta College, a liberal arts college, is seeking to fill a tenure-track position at the assistant professor level, beginning August 1989. Ph.D. required with primary interest in teaching but also willingness to work with students in research. Principal teaching duties include invertebrate zoology, field ecology, vertebrate zoology, general biology, and one other course relevant to the College's biology curriculum. Applications will begin on 1 February 1989. Send résumé, graduate and undergraduate transcripts, and three letters of recommendation to: Dr. Peter E. Hogan, Chair, Biology Department, Marietta College, Marietta, OH 45750. Marietta College is an Affirmative Action/Equal Opportunity Employer. Women and minorities are particularly encouraged to apply.

MARINE SCIENCE FACULTY POSITIONS

At the request of recent state initiative, five 9-month, academic tenue-track faculty tenure-track faculty positions are available in the Department of Marine Science at the University of South Florida. These five positions are open rank, range equivalent to full professor, depending upon the experience and qualifications of the applicant. Marine scientists in the fields of the geosciences, marine biology, and marine chemistry are encouraged to apply. Send all materials for consideration to: Dr. John J. Walsh, Chair, Faculty Search Committee Department of Marine Science University of South Florida 140 Seventh Avenue South St. Petersburg, FL 33701

MEDICAL ONCOLOGIST—University-affiliated Medical Center in New York City seeks senior level individual accredited in medical oncology to lead its Division of Medical Oncology. Applicant should have a record of research productivity plus administrative and teaching experience commensurate with professorial rank at a major university. Good salary plus benefits package. Send résumé to: Lorraine A. Hansen, Administrator, Medicine, St. Luke’s-Roosevelt Hospital Center, 114th Street at Amsterdam Avenue, New York, NY 10025.

Molecular Biologist

A position is available 1 December 1988 for a person, preferably a Ph.D., experienced in molecular biology and in gene expression. The work of the laboratory is directed towards elucidating of the relation to the effect of sex-steroid hormone. Send curriculum vitae to: Dr. Tabibzadeh, Department of Pathology, Elmhurst Hospital, 4155 Broadway, Elmhurst, NY 11373 or call: 718-830-1685. An Equal Opportunity Employer.

Molecular Biologist

A Catholic liberal arts college seeks molecular or biochemically-oriented biologist to chair science department granting degrees in biology and chemistry, beginning fall 1989. Required: Ph.D., administrative experience, and teaching experience with competence in biochemistry, genetics, and cell biology. The candidate should be able to manage the work load of modest research involving undergraduates. Salary and rank competitive. Send letter of application, curriculum vitae, and names and addresses of three references to: Dr. Joseph Colosi, Allentown College, Center Valley, PA 18034, by 24 January 1989. Affirmative Action/Equal Employment Opportunity.

Molecular Biologist, Research Assistant Professor, Tenure-Track Position

A position is available immediately to develop a molecular background in molecular biology. Research project includes the demonstration of the role of cytoxines (IL-1, IL-6, TNF, IFN-γ) in the development of viral and cellular pathogenicity as well as the interaction of the role of cancer. Send curriculum vitae to: Dr. Tabibzadeh, Department of Pathology, Elmhurst Hospital, 4155 Broadway, Elmhurst, NY 11373 or call: 718-830-1685. An Equal Employment Opportunity.

Molecular Biologist

University of Colorado seeks molecular or biochemically-oriented biologist to chair science department granting degrees in biology and chemistry, beginning fall 1989. Required: Ph.D., administrative experience, and teaching experience with competence in biochemistry, genetics, and cell biology. The candidate should be able to manage the work load of modest research involving undergraduates. Salary and rank competitive. Send letter of application, curriculum vitae, and names and addresses of three references to: Dr. Joseph Colosi, Allentown College, Center Valley, PA 18034, by 24 January 1989. Affirmative Action/Equal Employment Opportunity.

Molecular Biologist

A position is available immediately to develop a molecular background in molecular biology. Research project includes the demonstration of the role of cytoxines (IL-1, IL-6, TNF, IFN-γ) in the development of viral and cellular pathogenicity as well as the interaction of the role of cancer. Send curriculum vitae to: Dr. Tabibzadeh, Department of Pathology, Elmhurst Hospital, 4155 Broadway, Elmhurst, NY 11373 or call: 718-830-1685. An Equal Employment Opportunity.
Sandoz Institute for Medical Research

Laboratory Head in Molecular Biology

The Sandoz Institute is seeking an experienced molecular biologist with a good knowledge of cloning methods, preferably in the areas of expression cloning, gene transfer methods and site-directed mutagenesis. The person appointed, who will have at least 3 years' post-doctoral experience, will be in charge of a small group, and will also be expected to play an active role in the overall activities of the Institute, contributing to its long-term drug development goals. He or she should have broad interests in molecular neurobiology, so as to be able to make good use of the collaborative opportunities that the Institute offers. Initially, the emphasis will be on the cloning and characterisation of the bradykinin receptor.

The Sandoz Institute, which opened in 1985, is a multidisciplinary research organization comprising about 60 staff (45 scientific and technical staff) working on a range of neurobiological projects which have as their long-term objective the discovery of new types of analgesic drugs. The Institute is housed in its own premises within University College London, and has strong academic links with the College, though it is administratively and financially independent. The laboratories are modern and well-appointed, and the Institute is well funded by Sandoz Ltd.

The starting salary will be in the range £25,000-£30,000 p.a., and is subject to annual review. A company car, pension scheme, medical insurance, generous holiday allowance and other benefits are included.

Applications, including a full curriculum vitae and the names of three referees, should be sent to the Director, Dr. H. P. Rang FRS, Sandoz Institute for Medical Research, 5 Gower Place, London WC1E 6BN, UK. Tel: 01-387 4445, by 31 January 1989. Candidates will be welcome to visit the Institute for a preliminary discussion if they wish.

Cell Biologist

The Upjohn Company, a recognized leader in the research and development of pharmaceuticals, is seeking a highly motivated individual to conduct independent research on tumor angiogenesis as a potential target for drug therapy of cancer. The successful applicant will have a background in the biology of cancer and will apply state-of-the-art cellular and molecular approaches to the discovery of new antineoplastic drugs acting through inhibition of tumor neovascularization. This scientist will also investigate other aspects of tumor biology of their own interest which could lead to novel pharmacologic approaches to cancer treatment. Opportunities for collaboration with other Upjohn scientists interested in endothelial cell and tumor cell biology are available. The representation of research results at meetings and the timely publication of work will be expected. Individuals with a Ph.D. or equivalent degree in tumor and cell biology, molecular biology, biochemistry or related field, and at least 1-2 years of postdoctoral research or other relevant experience will be considered for this position.

Upjohn is located in Kalamazoo, in southwestern Michigan, midway between Chicago and Detroit and offers varied cultural events, lakes and woodlands minutes away, abundant year-round sports and recreation. Upjohn offers personal and career advancement opportunities, a highly competitive salary commensurate with experience, comprehensive benefits and relocation assistance. For confidential consideration, please send your CV/resume and a copy of transcripts to M. William Rex, The Upjohn Company, Corporate Employment, Kalamazoo, MI 49001. Please refer to advertisement number 23832-HA in your correspondence. We are an Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues...
**POSITIONS OPEN**

**MICROBIOLOGY**
The Department of Microbiology, University of New Mexico School of Medicine seeks applicants for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR position to begin 1 July 1989. Applicants with ongoing research programs in molecular biology of microorganisms or genetics will be given highest priority. The position involves teaching activities in medical bacteriology in the School of Medicine and participating in graduate studies and training. Salary commensurate with experience. Submit curriculum vitae and names of three references by 1 March 1989 to: Dr. H. J. Seiler, Chairman, Department of Microbiology, University of New Mexico, Albuquerque, NM 87131. *Affective Action/Equal Opportunity Employer.*

**NORTHEAST MISSOURI STATE UNIVERSITY**
Northeast Missouri State University invites applications for two tenure-track positions, beginning August 1989 for MOLECULAR/CELLULAR BIOLOGISTS. Teaching may include courses in general biology for majors and non-majors as well as advanced courses for science majors. Additional responsibilities include being active in ongoing research, providing laboratory in general biology courses, and guiding student-led research projects. Competitive salaries and benefits are available. Submit curriculum vitae and three letters of recommendation to: Dr. L. Scott Ellis, Division of Science, Northeast Missouri State University, Kirksville, MO 63501.

We invite application for the position of MOLECULAR GENETICIST at the assistant or associate professor level. The University has opened a molecular genetics section and a person is needed to establish a clinical and research laboratory. The successful candidate should be Board eligible in molecular genetics and demonstrate strong clinical and research interests. Faculty appointment level and tenure-track will depend on credentials. Submit curriculum vitae and statement of research interests along with three letters of recommendation to: Lawrence G. Leichtman, M.D., Chief, Genetics Division, Department of Pediatrics, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501. Deadline for applications: 15 April 1989. *An Equal Opportunity Employer.*

**SEARCH EXTENDED**

**MOLECULAR STRUCTURAL BIOLOGY**
The Department of Cell Biology and Neuroanatomy, in cooperation with the newly established Center for Structural Biology, University of Minnesota, is extending its search for a structural biologist with expertise in electron microscopy of macromolecules (including proteins, glycoproteins, membranes and chromatin) and in computer image analysis. Areas of research interest of the successful applicant must complement ongoing programs in the department in the areas of cytoskeleton, membrane proteins or extracellular proteins that interact with cells. The appointment may range from ASSISTANT PROFESSOR (TENURE-TRACK) to PROFESSOR (TENURED) depending upon qualifications (guidelines for appointment at each level will be sent on request). Applicants must have a relevant graduate degree (either Ph.D. or M.D. or both) and at least 2 years of productive postdoctoral experience. Teaching will be in courses taught to medical and dental students by the department. In addition to teaching, the appointee would be expected to engage in ongoing research appropriate to their training and in appropriate graduate programs would be required. Applications (which should include a letter of intent, curriculum vitae, three letters of recommendation, and a brief statement of research goals) or nominations must be received no later than 1 February 1989, and should be sent to: John F. Carraway, Department of Cell Biology and Neuroanatomy, 4-155 Jackson Hall, 321 Church Street S.E., Minneapolis, MN 55455.

The University of Iowa is an Equal Opportunity Employer and especially invites and encourages applications from women and minorities.

**POSITIONS OPEN**

**MOLECULAR GENETICS POPULATION BIOLOGY EVOLUTIONARY BIOLOGY REED COLLEGE**
The Reed College Biology Department invites applications for two full-time VISITING ASSISTANT PROFESSORS in genetics for the fall semester and leave replacements. We are seeking a MOLECULAR GENETICIST and an individual in the area of POPULATION BIOLOGY/EVOLUTIONARY ECOLOGY. A Ph.D. is required for both positions which commence in late August 1989. Each successful applicant will teach upper-division lecture/laboratory courses, participate in the undergraduate seminar, and guide senior thesis research projects. Reed College is a highly selective undergraduate institution with strong, traditional commitments to scholarship and excellence in teaching.

Applications including curriculum vitae and three re- letters of reference should be submitted by 15 February 1989 to: Dr. Peter J. Russell, Chairman, Biology Search Committee, Reed College, Portland, OR 97202-8199. *Reed College is an Equal Opportunity/Affirmative Action Employer.*

**NEUROSCIENCES FACULTY POSITION UCR/UCAL Program in Biomedical Sciences**
The UCR/UCAL Program in Biomedical Sciences, which offers an interdepartmental Ph.D. program between the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, invites applications opening May 1989 for the Division of Biomedical Sciences at UCR available 1 July 1989. The prospective level of appointment for candidates who must possess the Ph.D. or M.D. degree may be at the assistant, associate or full professor level. Primary teaching responsibilities will be in a 10-week course in neurosciences taught to 24 first-year medical students. Prior medical school teaching experience is strongly preferred. Also, the successful candidate should actively participate in graduate student training. Junior applicants should have a clearly demonstrable research program, success in obtaining extramural funding, and demonstrated teaching effectiveness. We would particularly welcome applications from individuals with research experience in cellular or molecular neurobiology. The University of California is an Affirmative Action/Equal Opportunity Employer. The deadline for applications is 28 February 1989. Applicants should send curriculum vitae, bibliography, two to three representative reprints, a statement of present and future research goals, and the names of three references to: Mary Ann Baker, Chair, Neurosciences Search Committee, Department of Neurosciences, University of California, Riverside, Riverside, CA 92521-0121.

**POSITIONS OPEN**

**MOLECULAR IMMUNOLOGIST BRANDEIS UNIVERSITY**
The Rosenthal Research Center and the Department of Biology seek a tenure-track investigator in the area of the molecular biology of the immune system. Candidates should have a strong record of research productivity. Exceptionally productive senior level will also be considered. Please submit curriculum vitae, including a description of research goals, and letters of recommendation to: Molecular Immunology Search Committee, Rosenthal Center, Brandeis University, Waltham, MA 02254-9110, by 28 February 1989. *Brandeis University/Affirmative Action Employer.*

**MYCOLOGIST**
The Systematic Botany, Mycology and Nematology Laboratory, U.S. Department of Agriculture, Agricultural Research Service, Bel- ville, Maryland, is seeking a research mycologist specializing in the systematics of fungi useful in biological control of fungi, weeds and nematodes. Research will emphasize monographic accounts of Fungi imperfecti and their related sexual states. Additional duties will involve participation in the USDA, Joint Cereal Fusarium Seed and Chiptease Test. Experience in mycology is desirable. Must be a U.S. citizen. Salary at GS 11-12 ($28,852 to $41,121). Send OPM Standard Form 171 to: Mr. J. Lynch, USDA, Agricultural Research Service, Personnel Operations Branch, Room 123, B005, BARC-West, Belville, MD 20705; tele- phone: 301-344-3954. Applications in response to this advertisement should be marked 8E020. Deadline for application is 10 February 1989. *An Equal Opportunity Employer.*

**OCCUPATIONAL MEDICINE/ENVIRONMENTAL HEALTH (OM/EH)**
Tenure-track faculty position for senior scientist to direct a newly established Environmental Evaluation Center at Emory University and an OM/EH educational track in the MPH Program. Nominations and applications are invited from qualified individuals who hold a Ph.D. in OM and eligible for licensure in Georgia. Responsibilities include the direction, management, planning and development of an OM/EH Center and educational track. Strong qualifications in OM, health management or related disciplines are desired. Salary is negotiable. Applications should include a current curriculum vitae, the names of three references, and a description of professional activities. Search Committee, Emory School of Public Health, 345 1st Street, S.E. Atlanta, GA 30322-3219. *An Affirmative Action/Equal Employment Opportunity Employer.*

**PEDIATRIC ONCOLOGIST—MEDICAL COLLEGE OF WISCONSIN**
Applications are invited for a tenure-track faculty position. The level of appointment will be commensurate with training and experience. The appointee is to develop an innovative research program in pediatric oncology, immunology or molecular biology. A record of publications in refereed journals and the ability to obtain extramural research support is essential. Ph.D. or M.D. required. Laboratory space and start-up funds are available. Please send curriculum vitae and the names and addresses of three references to: Dr. Charles D. Davis, M.D., Professor and Chairman, Pediatrics, Medical College of Wisconsin, P.O. Box 1997 Milwaukee, W1 53201. *Equal Opportunity/Affirmative Action Employer.*

**PH.D. IN IMMUNOLOGY/VIROLOGY/MOLECULAR BIOLOGY**
Need by young company in the heart of the city for new product development. We are involved with the latest techniques such as HIV testing, antibody-based research/diagnostic tests, and nuclear acid hybridization. Focus will be on the laboratory institute. Candidate should have experience with protein/DNA electrophoresis, western and southern blotting, and other molecular biology techniques. Please send curriculum vitae to: Carol Wat- kins, ImmuneTech, Inc., 380 Green Street, Cam- bridge, MA 02139.
Amgen, an industry leader in applied biotechnology, has an immediate opportunity for a BS or MS scientist to contribute to an innovative group involved in the characterization, cloning and expression of hematopoietic growth factors.

Candidates for this position must have a BS or MS and a minimum of 1 year's experience in bone marrow cell culture and tissue culture. Familiarity with a variety of colony forming assays is essential. Some experience in molecular biology is desirable.

Amgen offers an excellent compensation and benefits package as well as a stimulating and challenging research environment.

Qualified applicants should send a CV or resume, including references, in confidence to:

Recruitment, Dept. #334A
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

Equal Opportunity Employer

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POSTDOCTORAL RESEARCH ASSOCIATESHIPS

Physical Science Laboratory of New Mexico State University invites competitive applications for six Research Associate appointments for a two-year period beginning June 1989, starting dates negotiable. Appointments may be renewed for a third year.

The Laboratory is committed to developing a strong science base and solicits applications from recent PhD recipients having research specialties in any of the following:

**ELECTRO-OPTICS**—to include experimental or theoretical optics and computational models as related to optical remote sensing; linear or nonlinear optical properties of the atmosphere and aerosols; and laser, plasma, and multiphoton nonlinear spectroscopy.

**SIGNAL PROCESSING**—to include data compression techniques, encryption and decryption methods, error detection and correction, image interpretation, and parallel processing techniques for real-time and near-real-time applications.

**COMMUNICATION THEORY**—to include signal-propagation fading and jamming effects; non-Gaussian channels; spread-spectrum systems; trellis-coded modulation methods; convolutional encoding and decoding; multiplex-access techniques; frequency-hopping systems, microstrip and stripline antennas; and high-range resolution and synthetic-aperture radars.

Research Associates will have wide latitude in formulating and conducting their programs. Associates will report to the Director and have considerable visibility within PSL and ample opportunity for technical interaction with NMSU faculty. Send resume, names and addresses of three references, and statement of research interest to

Dr. Robert E. Walpole, Director
Physical Science Laboratory, Dept. 70
New Mexico State University
Box 30002
Las Cruces, NM 88003-0002

U.S. citizenship is required. Salaries begin at $26,000 and are negotiable, depending upon qualifications. Final deadline is February 28, 1989. Applications received by 27 January will have first consideration.

NMSU is an Equal Employment Opportunity/Affirmative Action Employer. Minorities and women are especially invited to apply.

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CENTER DIRECTOR/CEO

The H. Lee, Moffitt Cancer Center and Research Institute, at the University of South Florida, seeks a Physician Scientist for the newly established position of Center Director and Chief Executive Officer of the institution. Applicants should have demonstrated evidence of leadership qualities and proven clinical skills as well as outstanding abilities in research and teaching. The Center Director will have sole responsibility for overall management of the cancer center and will report directly to the Board of Directors.

The Moffitt Cancer Center is a recently opened 162-bed freestanding cancer center and research facility located on the campus of the University of South Florida. Letters of interest and curriculum vitae may be submitted in confidence by February 1, 1989 to Nicolas C. Porter, Executive Director, H. LEE MOFFITT CANCER CENTER & RESEARCH INSTITUTE, P.O. Box 280179, Tampa, FL 33682-0179. An equal opportunity/affirmative action employer.

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LifeCell—Immediate Career Impact

That's what you'll find with our dynamic, fast-growing company. We market a revolutionary process that is having a tremendous impact in all areas of biotechnology that involve electron microscopy analysis. We offer contract research services and are marketing our patented instrumentation for this wide-ranging process. Currently, we are seeking to place key professionals throughout major U.S. markets.

Technical Specialist—
Electron Microscopy

Working out of either the Midwest or West Coast region, you will demonstrate our product, conduct technical seminars, in-service new instrumentation, and support distributor sales for our instrument line and contract services. Some travel is required.

Qualified candidates are aggressive, energetic individuals with outstanding interpersonal skills. Degree (B.S., M.S., or Ph.D.) in biological science required with 2 or more years' electron microscopy experience or comparable sales experience.

We offer an excellent salary with a commission schedule and complete benefits package. If you are ready for our challenging, highly rewarding environment, please send your resume, including salary requirements, in confidence to: Personnel Director, LifeCell Corporation, 3606-A Research Forest Drive, The Woodlands, TX 77381.
Research and development PHYSICIST in applied x-ray physics. Forty hours per week; 8:00 a.m. to 5 p.m.; $49,100 per year. Responsible for research and development of both solid state and Xenon gas detector assemblies for low energy x-ray detectors in medical applications. Researches and develops x-ray collimation assemblies for medical imaging devices. Uses complex Computer Aided Design (CAD) equipment as well as Computer Aided Manufacturing (CAM) equipment. Develops and establishes quality control and test procedures in hard x-ray and soft x-ray imaging systems. Must have 8 years of college and a Ph.D. in physics. Must have 2 years of experience as a research and development physicist in applied x-ray physics or 2 years of experience in research and development in nuclear and x-ray physics. Must also have 2 years of experience with application and design of computer hard and software as well as computerized tomography (P.L.I. and Assembler). Interested applicants contact: Illinois Department of Employment Security, 401 South State Street, Suite 3, Chicago, IL 60605, Attention: Marie Ninneman, Ref. #8810, An Employer Paid Ad.

PLANT MOLECULAR BIOLOGY/HORTICULTURE—Washington State University (WSU) Tenure-track (12 months), faculty position as ASSISTANT PROFESSOR, research and teaching (70/30), in plant molecular biology and horticulture. Experience in extraneous garden program in plant molecular biology linked to solving problems in and improvement of horticultural crops, teaching and advising at the undergraduate and graduate level. Demonstrated expertise in plant molecular biology, a Ph.D. in plant science, and at least a year's post-doctoral experience in plant molecular biology are required. Evidence of research productivity is preferred. To complement current programs, experience with higher plant systems in the areas of photosynthesis/pantitoning, respiration/irrience, stress, or growth regulation is desirable. Résumé, transcripts (official), names and addresses of four references and a statement of professional goals and research interests should be sent to: Professor Wayne Loecher, Chair, Plant Molecular Biology Search Committee, Department of Horticulture, Land. Arch., WSU, Pullman, WA 99164-6414 by 25 January 1989. WSU is an Equal Opportunity/Affirmative Action educator and employer. Protected group members are encouraged to apply.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE Major Harvard Medical School teaching institution is looking for Ph.D., M.D. or M.D.-Ph.D. to work on the control of gene expression by catecholamines and thyroid hormone. Candidates must have experience in molecular and cell biology. Send curriculum vitae, letter summarizing career goals and interests, and references to: J. Enrique Silva, M.D., Beth Israel Hospital, Division of Endocrinology, 330 Brookline Avenue, Boston, MA 02215; telephone 617-735-2028.

POSTDOCTORAL FELLOWSHIP PHYSICIST with strong interest in biochemistry preferred; other interests considered. Assistant position for tenure, starting August 1989. Ph.D. required. Denison University is a high quality liberal arts college located in central Ohio. ACS certified chemistry laboratory with computerized instrumentation. Primary responsibilities include physical and biochemistry, also introductory level chemistry. Strong interest in teaching and research involving undergraduates required. To assure consideration, send application, resume, transcript and three letters of recommendation by 31 January 1989 to: Dr. Richard Doyle, Chairman, Department of Chemistry, Denison University, Granville, OH 43023. An Equal Opportunity Employer. Women and minorities are encouraged to apply.

PLANT GENETICS, ASSISTANT PROFESSOR, tenure-track. Ph.D. required. Candidate should have expertise and postdoctoral experience in the application of molecular techniques to plant genetics, preferably development. Successful candidate will be expected to develop a research program with extramural funding, supervise graduate students, and teach in genetics/cell biology courses. Applicants should send a description of future research plans, curriculum vitae, and names of three references to: Dee Topp, Secretary, Search Committee, Department of Biology, Harvard University, Cambridge, MA 02138. Review of applications will begin 17 February 1989. MSU is an Affirmative Action/Equal Opportunity Employer.

POPULATION BIOLOGY. Three-year term position (subject to annual renewal) at the Assistant Professor level. Fellowship support will be qualified to teach genetics, introductory organics/poopyulation biology, and advanced course in specialty. A commitment to research, including work with undergraduates, is expected. Send curriculum vitae, graduate and undergraduate transcripts, and statement of research interests, by 1 February 1989, and arrange for letters from at least three referees to be sent to: Dr. Barbara N. Schwartz, Department of Biology, Franklin and Marshall College, Lancaster, PA 17604-3003. Franklin and Marshall College is an equal opportunity/affirmative action employer. Women and members of minority groups are encouraged to apply. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—IVF LABORATORY Ph.D. to direct human IVF laboratory in a newly established program in Columbia University in cell or tissue culture techniques and in gamete and embryo biology required. Research funds, support staff and academic appointment available. All letters of recommendation and salary, dependents on experience, and generous benefits. Replies, including curriculum vitae should be sent to: Dr. Steven T. Cost, Department of Biochemistry, The University of Mississippi Medical Center, 2500 North State Street, MS 38921-4505. Equal Opportunity Employer, M/F/H/V.

POSTDOCTORAL FELLOWSHIP in intestinal packaging and transport of lipopolysaccharides is available immediately. Research training is available in an exciting environment that includes recognized and strongly interdi-tiginated research programs in gastrointestinal biology and pathobiology. Applicants with training in subcellular fractionation or lipid and lipopolysaccharide metabolism are preferred. Forward curriculum vitae and statement of career goals to: Patrick Teo, Ph.D. Department of Physiology and Biophysics Louisiana State University Medical Center 1501 Kings Highway P.O. Box 33932 Shreveport, LA 71130-3932 Full salary is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP to study bioinformatics for environmental chemicals toxic to the thyroid. Ph.D. in biochemistry, organic chemistry or equivalent required. Experience in trace analysis using GC and HPLC preferred. Send curriculum vitae with names and telephone numbers of three references to: Dr. Daniel R. Doree, Department of Agricultural Biochemistry, 1800 East-West Road, University of Hawaii, Honolulu, HI 96822. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in Arteriosclerosis SCOR program to investigate cellular cholesterol metabolism using biochemical and molecular biological approaches. Minority applicants desired. Send curriculum vitae to: Dr. Iris Tabas Department of Medicine Columbia University College of Physicians and Surgeons New York, NY 10032.

POSTDOCTORAL POSITION available immediately in Australia from mid-1989 to study the biology of Human Immunodeficiency Virus infection of macrophages. Areas of research include virus/receptor interactions, mechanisms involved in virus replication, and viral and host factors involved in HIV replication. Applicants should have training in virology, molecular or cellular biology. Interviews will be conducted on a first come, first serve basis; lunch and travel expenses will be provided. Send curriculum vitae and letter of interest to: Dr. James M. Doherty, 16 Broadway, Beverly, MA 01915. Telephone: 508-927-7777; FAX: 508-927-5127.

POSTDOCTORAL POSITION in immunology/Fellowship position available immediately, to study mechanisms underlying tolerance to sedative hypnotic drugs. Current project involves the study of endogenously induced thermoregulatory disturbances, including hypothalamic temperature manipulation and measurement and measurement of oxygen consumption. Seeking Ph.D. in Ph.D. in immunology/physiology or physiological psychology for support by NIAAA training grant. Send curriculum vitae and three letters of reference to: Dr. Edward Gallacher, Department of Medical Psychology, LA 4500 Oak Street, Oregon Health Sciences University, Portland, OR 97201.
MARINE BIOLOGICAL LABORATORY

1989 Summer Courses

BIOLGY OF PARASITISM (June 11-August 11) Emphasizing the on-going convergence of molecular biology and immunology with tropical medicine, this course covers recent developments in research on parasites and parasitic disease. Laboratory work focuses on the general biology of parasites as well as applicable methods of molecular biology and immunology. Intended for advanced graduate and postdoctoral students as well as established investigators. Co-Directors: John E. Donelson, University of Iowa School of Medicine and Carol Long, Hahnemann Medical College.

EMBRYOLOGY: CELL DIFFERENTIATION AND GENE EXPRESSION IN EARLY DEVELOPMENT (June 18-July 29) An advanced level lecture and laboratory course intended for graduate students, postdoctoral fellows, and other research scientists who wish a current treatment of major issues in the experimental analysis of developmental biology of invertebrate and vertebrate embryonic systems, and the diverse intellectual approaches now useful in this field. Director: Eric H. Davidson, California Institute of Technology.

MARINE ECOLOGY: APPLICATIONS OF MOLECULAR BIOLOGY TECHNIQUES AND MOLECULAR PROBES (June 18-July 29) Two three-week modules will provide an intensive experience for graduate, postdoctoral and highly qualified undergraduate students. Director: J. Woodland Hastings, Harvard University.

MICROBIOLOGY: MOLECULAR ASPECTS OF CELLULAR DIVERSITY (June 11-July 27) A six-week laboratory course intended for advanced students and established investigators who seek training in microbiological techniques and experience with a broad range of microbes, emphasizing anaerobes and their cultivation. Co-Directors: Ralph Wolfe, University of Illinois and Peter Greenberg, University of Iowa.

NEURAL SYSTEMS AND BEHAVIOR (June 11-July 29) A lecture/laboratory course intended for graduate students, postdoctoral fellows, and established investigators combining state-of-the-art methods of neurobiology with the analysis of animal behavior, representing the interface between these two fields. Director: Thomas Carew, Yale University.

NEUROBIOLOGY (June 11-August 19) A ten-week advanced course for pre- and postdoctoral students providing lectures and laboratory experience in the issues and techniques of contemporary cellular and molecular neurobiology. Director: Arthur Karlin, Columbia University.

PHYSIOLOGY: CELL AND MOLECULAR BIOLOGY (June 11-July 22) A course for graduate students, postdoctoral fellows and established investigators who wish hands-on experience with both standard methods to purify and characterize proteins, nucleic acids and other cellular components as well as several advanced techniques used to relate molecular structure to physiological function. The course will feature the importance of marine organisms available at Woods Hole as experimental systems in modern biology, and postcourse research with the staff. Director: Thomas D. Pollard, Johns Hopkins University.

Application Deadline: March 1, 1989

Partial financial aid is available to qualified applicants.

Contact: Admissions Coordinator
Office of Sponsored Programs
Marine Biological Laboratory
Woods Hole, MA 02543
(508) 548-3705, ext. 216

CELLULAR BIOLOGIST & CELLULAR IMMUNOLOGIST

Collagen Corporation is a dynamic and growing biomedical company. Our Research & Development subsidiary, Celtrix Laboratories, is a leader in the identification and therapeutic uses of newly discovered cytokines and growth factors. If you're a qualified research scientist with strong supervisory abilities, we invite you to join us in our attractive San Francisco Bay Area location.

CELLULAR BIOLOGIST

The selected candidate will be responsible for developing in vitro and in vivo models which can be used to evaluate the role of novel cytokines in the growth and differentiation of epidermal and connective tissue cells. You will also determine the potential use of these factors in the treatment of skin diseases. Qualified individual will have a Ph.D. in Cell Biology or a related field with 2-3 years of research experience in skin biology and/or dermatology.

CELLULAR IMMUNOLOGIST

The successful candidate will supervise the development of immune-mediated inflammation models used to evaluate the role of different cytokines in the immune response. This position requires a Ph.D. and 2-3 years of experience, or an M.S. and 4 years' experience, with inflammatory animal models and cellular immunology.

Our R&D focus will provide you with a challenging, stimulating career environment in an ideal location, as well as excellent salaries, full benefits, an employee stock purchase plan and relocation assistance. For prompt, confidential consideration, send your resume to: S. Hansen, Human Resources, Collagen Corporation, 2500 Faber Place, Palo Alto, CA 94303. We are an equal opportunity employer.
A limited number of POSTDOCTORAL FELLOWSHIP opportunities are available at the National Cancer Institute, National Institutes of Health, in Bethesda, MD. Applications are invited to study the effects of drugs on the behavior of nonhuman primates performing sensory psychophysical tests. Experience should involve the use of molecular biological techniques. Excellent research facilities and a dynamic and highly interactive environment are available. Applications should be sent to: Dr. John F. Ward, UCSD, Radiation Biology Division M-010, La Jolla, CA 92037. \textit{Calif. Med.}, 16, 66. Sciam. AEA. Acta. \\

**POSITIONS OPEN**

**POSTDOCTORAL POSITION** available immediately to study the biological effects of drugs on the behavior of nonhuman primates performing sensory psychophysical tests. Experience should involve the use of molecular biological techniques. Excellent research facilities and a dynamic and highly interactive environment are available. Applications should be sent to: Dr. John F. Ward, UCSD, Radiation Biology Division M-010, La Jolla, CA 92037. \textit{Calif. Med.}, 16, 66. Sciam. AEA. Acta.

**POSTDOCTORAL FELLOWSHIP** opportunities are available at the National Cancer Institute, National Institutes of Health, in Bethesda, MD. Applications are invited to study the effects of drugs on the behavior of nonhuman primates performing sensory psychophysical tests. Experience should involve the use of molecular biological techniques. Excellent research facilities and a dynamic and highly interactive environment are available. Applications should be sent to: Dr. John F. Ward, UCSD, Radiation Biology Division M-010, La Jolla, CA 92037. \textit{Calif. Med.}, 16, 66. Sciam. AEA. Acta.
Neurobiologist

Pfizer, a U.S. based multinational pharmaceutical company, is seeking a qualified scientist to join our Central Research facility in Groton, Connecticut. You will participate in multidisciplinary approaches to therapy for CNS disorders and neurodegenerative diseases in our Molecular Neurobiology group. You should possess an MS or BS degree in the Biological Sciences. You also should have laboratory experience in one or more of the following areas: enzymatic assays; ELISA; tissue culture.

Pfizer offers a stimulating scientific research environment with the opportunity to interact with scientists from several disciplines. In addition, Pfizer has a competitive compensation/benefit package along with relocation assistance to this southeastern Connecticut shore community. Please send a resume, description of research accomplishments and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

BIOCHEMISTS

Lever Research & Development, the central research facility for Unilever in the United States, a leading consumer products company, is seeking Biochemists at all degree levels for research in our Enzymology and Dental research groups.

Recent experience in protein purification and characterization, enzyme kinetics, membrane biochemistry, bioorganic chemistry and/or microbiology is helpful but not necessary. Experienced individuals and recent graduates are encouraged to respond.

We offer an excellent benefits package and competitive salary commensurate with experience. If interested, please submit resume, in confidence, to: Jim Conti, Manager, Employee Relations.

Manager

ANTIVIRAL PROGRAM

Our client is a highly respected biopharmaceutical research company. This Toronto based company has developed strong research capability in selected areas of biotechnology.

We are seeking an achievement oriented scientist to build and lead a team devoted to antiviral research. A successful track record in the development of new products is highly desirable. The selected individual will report to the President.

The ideal candidate will:
* possess a PhD degree in Molecular Biology or Virology followed by a minimum of three to five years of relevant experience.
* be familiar with vector construction, mammalian cell transformation, transcription factors and protein fractionation.
* have excellent interpersonal and other managerial skills.
* be self-motivated and yet be able to interact effectively with external scientific groups.
* be oriented to goals, budgets and deadlines.

A competitive compensation and benefits package will be offered to the right candidate.

Qualified candidates interested in this position are invited to submit their resumes, quoting Reference #88026 to:

Dr. Marc C. Raheja
CanMed Consultants Inc.
659 Mississauga Crescent
Mississauga, Ontario
Canada L5H 1T9
Tel (416) 274-0707
Fax (416) 274-5211

CanMed

INTERNATIONAL CONSULTANTS TO EXECUTIVES AND PROFESSIONALS IN THE HEALTH CARE SECTOR

Postdoctoral Fellow/Research Assistant Professor

We are seeking a Ph.D. to participate in ongoing research on regulatory mechanisms in hemostasis. Familiarity with platelet physiology, radioimmunoassays, HPLC, coagulation assays required. Experience with cell culture techniques highly desirable. References required. Position open immediately.

Contact: Daniel Deykin, M.D., Boston VAMC, 150 S. Huntington Ave., Boston, MA 02130, U.S.

Citizenship/work permit required.
Equal opportunity employer.
POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITION available immediately for an individual with a Ph.D. in proteoglycan biochemistry. The successful applicant will be engaged in research exploring the role proteoglycans play in the development of amyloidosis generally and Alzheimer's Disease in particular. The successful individuals will be part of an existing team currently consisting of a carbohydrate chemist, a molecular biologist, a protein biochemist, a postdoctoral fellow, two students, and four technicians. Collaboration and research agreements are also in place with a protein structure group, two neurobiologists and a PhD student. The University of Pittsburgh setting will be for 2 years, and may be extended for an additional 2 to 3 years. Please submit curriculum vitae and three letters of reference to: Dr. Robert Kullerley, Professor and Head, Department of Pathology, Queen's University, Kingston, Ontario, Canada, K7L 5N6.

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Science Program Coordinator

Babson College, located in Wellesley, MA, invites applications for a position as Science Program Coordinator starting September 1989. This is a senior position with responsibility for the development, implementation and coordination of our science curriculum. We are leaders in science education for business students. Through curriculum development and outstanding teaching, the Coordinator will help us enhance the technological literacy of our students and their understanding of the connections among science, technology and business.

Send curriculum vitae and names of three references to:
Dr. Paul E. Ritt, Director, Academic Affairs, Babson College, Babson Park (Wellesley), MA 02157.

Babson College is an Equal Opportunity/Affirmative Action Employer

MOLECULAR BIOLOGISTS

A molecular biology group of Zoecon Research Institute, a division of Sandoz Crop Protection, located in the San Francisco Bay Area has several openings for experienced molecular biologists to study biological insect control.

We are seeking scientists with MS and Ph.D. degrees having experience in the following areas:

1) Gene cloning and DNA sequencing;
2) Site directed mutagenesis;
3) Prokaryote gene regulation.

To apply for these positions, send your CV and names of three professional references to:

Sandoz Crop Protection Corporation
Zoecon Research Institute
Human Resources Department
975 California Avenue
Palo Alto, CA 94304-1104

Ph.D. Biochemistry

RESEARCH INVESTIGATOR

The Squibb Institute for Medical Research is an internationally recognized leader in the research and development of innovative pharmaceuticals and related health care products. Currently, we have a position available for a Research Investigator to join us at our New Brunswick, NJ facility.

Our successful candidate will possess a Ph.D. in Biochemistry and 2-3 years experience in cell and tissue culture. Experience in transport kinetics would be a plus. Specific responsibilities of this position include:

- The preparation and characterization of myocardial and endo-thelial cell cultures.
- The study of metabolic and transport characteristics of potential myocardial and cerebral perfusion imaging agents.

We offer a very competitive compensation package and participation in our comprehensive benefits program. Interested candidates should submit their resume, including salary history, to: E.R. Squibb & Sons, Dept. LH/E18788, PO. Box 191, New Brunswick, NJ 08903. An equal opportunity employer.
Scientists/Senior Scientists/Principal Scientists


At Ethicon, a Johnson & Johnson company, we have long recognized that research and development represent both the foundation and the future of our company. The research efforts of our scientists have helped make Ethicon the world leader in the manufacture of surgical products for wound closure, producing over 3,700 regular products and specialty items. A major commitment to new product development in surgical pharmacology presents significant new technical challenges. Accordingly, opportunities have been created for senior scientists who possess the technical prowess and management ability that will enable the company to meet its ambitious growth objectives.

Drug Characterization

This highly challenging position requires a PhD in Analytical Chemistry, Biochemistry or Pharmaceutical Chemistry and 3 years experience in pharmaceutical analysis. The successful candidate will be responsible for the development of analytical methods for pure drug substances, dosage forms and validating methods to determine their purity, potency and stability. Hands-on experience using chromatographic and spectroscopic techniques is required, and peptide/protein analysis experience would be helpful. Ref. Code AM106.

Analytical Methods Development (New Biomedical Drug Products)

Primary responsibilities for this opportunity will include the development of analytical methods for analysis of raw materials and finished products, conducting physical/chemical characterization of new drug substances and isolating/identifying/developing analytical methods for new formulations. Qualified applicants should possess a PhD in Analytical Chemistry or Biochemistry, 1+ years' industrial or postdoctoral experience in the characterization and analysis of biomolecular entities, such as proteins, peptides or polysaccharides, and knowledge of modern laboratory instrumentation. Experience with regulatory submissions of biomolecules is highly desirable. Ref. Code AM2-S.

Our Somerville, NJ headquarters is conveniently located within an hour's drive of both New York and Philadelphia. Working in a campus-like setting, you'll enjoy ample room for career advancement, an excellent salary and the full complement of Johnson & Johnson benefits including our Live For Life Program with on-site health facility, and dental insurance. Relocation assistance will be provided. Please send your resume, indicating salary requirements and appropriate reference code, in confidence to: Employment Manager, Ethicon, Inc., Route 22, Somerville, NJ 08876. An equal opportunity employer.

ETHICON
a Johnson & Johnson company
RECOMBINANT DNA OPPORTUNITIES at Vivigen, B.S. or M.S. degree, 1 year or more of experience and recombinant DNA knowledge; research and development positions: isolation of nucleic acids, Southern blotting, etc. Salary commensurate with experience. Send resume to: Vivigen, 435 St. Michael’s Drive, Santa Fe, NM 87501.

RESEARCH ASSOCIATE for a university in the Chicago area to perform research in theoretical high energy astrophysics with specialization to spectra formation and jet formation in compact objects; radiative transfer calculations in the environment of accreting magnetized neutron star atmospheres; compare calculations with observations of binary x-ray pulsars; interpret observations from neutron line features of consistent nonthermal models for spectra of gamma ray bursts, especially regarding the role of synchrotron and synchrotron self-Compton phenomena. Send a resume detailing the nature of particle distributions in strongly magnetized media with widely varying optical depths; study self-collimated electromagnetic jets from magnetized accretion disks around black holes as a model for the observed extragalactic radio jets. Requires Ph.D. in physics. Special requirement: Program of study must include Ph.D.-level research in Statistical Mechanics, Numerical Simulation techniques, Monte Carlo Resonant Line Transfer computations, and compact object astrophysics. Forty hours per week. 8 a.m. to 5 p.m. Monday through Friday. Salary $20,000 per year. Applicants must send resumes to: Illinois Department of Employment Security, 401 South State Street, 3 South, Chicago, IL 60606. Attention: Marie Nisamman. Reference #9785. An employer-paid ad.

RESEARCH ASSOCIATE—to join a multidisciplinary team of cell physiologists studying the membrane properties of cultured heart cells. Experience in using patch clamp techniques is essential. Send curriculum vitae and names of three references to: Dr. Mel Lieberman, Division of Cell Biology, Duke University Medical Center, Box 38709, Durham, NC 27710. Equal Opportunity/Affirmative Action Employer.

RESEARCH ENTOMOLOGIST: Dow Chemical U.S.A. has an immediate opening in its Insecticide Discovery Group for a research entomologist interested in the discovery and development of innovative approaches to insect pest control. The candidate will conduct discovery and product support research and will be responsible for guiding potential products through early stage research and development. We require an adaptable, innovative entomologist who can function productively as a member of our multidisciplinary research group. A Ph.D. in entomology is required, and experience in both laboratory and field research is essential. Research experience with HPLC preferred. Dow offers a salary commensurate with experience, plus ample opportunity for professional growth. Applications should include a curriculum vitae and a letter of qualification. Send a resume to: M. B. Hertlein, Agricultural Products Department, Dow Chemical U.S.A., P.O. Box 9002, Walnut Creek, CA 94598. Telephone: 415-944-2031 or 944-9008. Application deadline is 31 January 1989. Affirmative Action/Equal Opportunity Employer. U.S. citizenship or permanent residency is required.

RESEARCH PHYSICIAN. Conduct research in the pathogenesis of autoimmune thyroid disease through the establishment and development of long-term cultures of specific immune cells; provide technical advice to members of the laboratory regarding research techniques and findings; prepare results of research for publication in professional and presentation at national and international conferences. M.D. required and 2 years of experience in the job offered or 4 years as Resident or Fellow in Endocrinology. Related occupation must have been in the field of Endocrinology (clinical and research). Must possess knowledge of tissue culture, human lymphocyte cloning and development of assays for use in therapeutic publications, in one professional journal and presentation at one national or international conference. Forty hours, Monday through Friday, 9 a.m. to 5 p.m. $32,000 per year. This is a University position. Send resume and Social Security Number to: Illinois Department of Employment Security, 401 South State Street, 3 South, Chicago, IL 60606. Attention: Mrs. D. H. McCall. Reference #VI-LL-8822-F. An employer paid ad.

RESEARCH ASSOCIATE to study growth factors and peptide signals related to the reproductive system and kidney. Program will use the Molecular biologic techniques, including in situ hybridization, and immunohistochemistry. Masters of Ph.D. required. Opportunity available immediately for qualified persons. Salary commensurate with experience and training. Send resume to: Research and Education Institute, Harbor—UCLA Medical Center, 1124 West Carson Street, Personnel Department, Torrance, CA 90502.

RESEARCH ASSOCIATE on molecular and biochemical basis of drug action with emphasis on AIDS Therapeutics. Ph.D. with experience in enzymology or molecular biological approaches highly desirable. Salaries are commensurate with experience and begin at $22,000. Start date is flexible. Send curriculum vitae and names of three references to: Arnold Fridland, Ph.D., Department of Pharmacology, Joslin's Research Hospital, 332 North Lauderdale, Memphis, TN 38101.

McMASTER UNIVERSITY RESEARCH ASSOCIATE

A position is available as a research associate in the Division of Physiology/Pharmacology, Department of Biology, for the academic year 1989-1990. The candidate should possess a Ph.D. in a field related to the study of the isolation, characterization and biochemistry of membrane-bound neurotransmitters. Salary is dependent upon experience and begins at $20,000. Start date is flexible. Send curriculum vitae and names of three references to: Dr. E. E. Daniel, HSC-4N51Faculty of Health Sciences Department of Biomedical Sciences 1200 Main Street West Hamilton, Ontario L8N 3N5

RESEARCH SCIENTIST: Conduct research on the disposition and metabolism (in vitro and in vivo) of polymeric aromatics and chloro-dibenzo-furans in fish and rats. Ph.D. in biochemical pharmacology, toxicology or related field required. The successful candidate should have experience with HPLC. Salary is negotiable. Send resume by April 30, 1989 to: B. L. Dittman, Assistant Professor, Department of Health Sciences, SUNY Health Science Center at Buffalo, 75 High Street, Buffalo, NY 14222. Phone: 716-898-2000.

RESEARCH SCIENTIST—ELECTRON MICROSCOPY

The University of Arizona has an opening for a research scientist with experience in electron microscopy to supervise a core electron microscope facility. Applicants should have a Ph.D. or equivalent degree in biological sciences or equivalent years of several years of electron microscopy experience. Duties will involve supervising core electron microscopy facilities on the main campus and the College of Medicine. A Ph.D. in biological science or equivalent is required. This position is a full-time, permanent position. The successful applicant will be expected to support and supervise a research program as well as to coordinate joint appointments for the facility. The position is continuing or continuing eligible and the salary will be commensurate with experience. Send your curriculum vitae, a description of research interests, a summary of EM experience and a letter to: Dr. John H. Low, Biotechnology Program, Biosciences West Building, University of Arizona, Tucson, AZ 85721, by 31 January 1989. Applications from women and minorities are encouraged. The University of Arizona is an Equal Opportunity/ Affirmative Action Employer.

RESEARCH SCIENTIST—MEDICAL RESEARCH

RESEARCH ASSISTANT PROFESSOR OF PATHOLOGY—POMOLOGY. Position is open for research studies on mutant epidermal growth factor receptor (c-erb-B proto-oncogene) proteins in malignant human tumors. Open position is for a highly skilled, multidisciplinary tumor biology group on the role of these deletion mutant molecules in altered tumor growth control. Experience in protein biochemistry including isolation, characterization and expression of membrane proteins desirable. Salary above NIH standard and dependent upon relevant experience. Send curriculum vitae and three letters of reference to Dr. D. Biggers and Peter A. Humphrey, Box 3156, Department of Pathology, Duke University Medical Center, Durham, NC 27710.

RESEARCH OPPORTUNITIES at the National Center for Toxicological Research (NCTR)—Opportunities for faculty and postgraduates to conduct collaborative research at NCTR, a Food and Drug Administration laboratories in central Arkansas. Research efforts focus on testing the assumption used in assessing risks posed by toxic chemicals emphasizing studies in biomarkers, modes of toxicity, and extrapolation/risk assessment. U.S. citizenship or PERA status required. For more information contact: Research Participation Program at NCTR, University of Arkansas, Division of Biological Sciences, P.O. Box 117, Oak Ridge, TN 37831-0117, telephone: 615-576-6390. Please indicate if interested in faculty and/or postgraduate program.

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

Chief Scientific Officer
The Immune Response Corporation
6451 Nancy Road
San Diego, CA 92121
Ref: Cellular Immunologist

RESEARCH TECHNICIAN to work in the area of retroviral molecular biology. Applicants should have a Bachelor or Masters level in biochemistry, molecular biology or a related field and excellent experience in a research environment. Applications are encouraged from individuals with a good working knowledge of recombinant DNA technology. Attractive salary and benefits package. Send full curriculum vitae and references to: Bryan R. Callen, Howard Hughes Medical Institute, Box 3025, Duke University Medical Center, Durham, NC 27710.

RHEUMATOLOGIST—University-affiliated Medical Center in New York City seeks senior-level individual accredited in rheumatology to lead its Division of Rheumatology. Applicants should have a record of research productivity plus administrative and teaching experience commensurate with associate professor rank (tenure track) at a major university. Excellent benefits package. Please send resumes to: Lorraine A. Hansen, Administrator, Medicine, St. Luke’s—Roosevelt Hospital, 1000 Amsterdam Street at 64th Street at Amsterdam Avenue, New York, NY 10025.

Louisiana State University (LSU) Eye Center is looking for a SENIOR PHARMACOLOGIST. Applicant should be interested in drug delivery systems, although other areas of research will be considered. Previous experience in ophthalmology is not necessary. Interested applicants send curriculum vitae to: Herbert E. Kaufman, M.D., LSU Eye Center, 2020 Gravier Street, Suite B, New Orleans, LA 70112. LSUUM is an Equal Employment Opportunity/Affirmative Action Employer.

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SCIENCE, VOL. 243
NIOSH ANNOUNCES RESIDENT & POSTDOCTORAL ASSOCIATESHIP AWARDS

FOR Ph.D & M.D. SCIENTISTS
The National Institute for Occupational Safety and Health announces outstanding opportunities for research in:

• APPLIED PSYCHOLOGY
• BIOACOUSTICS
• BIOLOGICAL MONITORING
• BIOLOGICAL PHYSICS
• BIOLOGICAL TOXICOLOGY
• BIOTECHNOLOGY
• IMMUNOLOGY

The National Research Council in cooperation with the National Institute for Occupational Safety and Health, Division of Behavioral and Biomedical Research in Cincinnati, Ohio will offer competitive research awards in 1989 for independent scientific research. Participants will be free to work on problems of their own choice as guest investigators at NIOSH. Duration of awards is one year, renewable to a maximum of two. This program is open to experienced senior scientists as well as to recent PhD and MD graduates. Stipends begin at $28,000 for recent graduates and are appropriately higher for seniors. Research support and funds for professional travel and activities are available, and a health insurance program is offered.

For further information and application materials please write to:

Associateship Programs (GR 430/NC)
NATIONAL RESEARCH COUNCIL
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

Deadlines for application are April 15 and August 15.

EXPERIMENTAL PHYSICIST

Lawrence Livermore National Laboratory, one of the nation's premier research and development organizations, currently has a challenging opportunity available for an Experimental Physicist.

The selected candidate will conduct a vigorous program investigating atomic processes involving highly excited multiply ionized atomic systems. This research employs the latest developments in high resolution X-ray and Auger electron spectroscopy, as well as the most recent advances in ion source technology. The position is also responsible for building up a group of physicists to carry out quality research and support for the Laboratory's major applied physics programs.

The ideal applicant will have an expertise in atomic structure of highly charged ions, and a broad background in the physics of electron and ion collisions in dense plasmas and atomic processes in strong fields; a PhD or equivalent in Experimental Physics; and demonstrated scientific leadership abilities. Must also be able to plan and execute complex experiments and interpret results in the framework of current theoretical models. Excellent interpersonal and communication skills are essential.

LLNL offers a competitive salary and benefits package, and the opportunity to work in one of the best equipped national laboratories. For immediate consideration, please forward your resume to: Nancy Kolo, Professional Staffing, Lawrence Livermore National Laboratory, PO. Box 5510, L-725, Dept. KSCI16903A, Livermore, CA 94550. Equal Opportunity Employer.

University of California

Lawrence Livermore National Laboratory

ELECTROPHORESIS PRODUCT MANAGER

Molecular Dynamics is a newly formed, well-financed company providing instrumentation for molecular biology research. Innovations in the use of lasers and optics have resulted in an exciting family of products with unique capabilities.

Position involves responsibility for product planning, forecasting, as well as development of advertising and collateral materials. Candidates should have a B.S. in chemistry or biology, knowledge of the electrophoresis market and at least 5 years experience in marketing or sales of capital equipment.

Molecular Dynamics offers competitive salaries, an excellent benefit program and opportunity to participate in the growth of the company through early equity participation. Send resume to Molecular Dynamics, 240 Santa Ana Court, Sunnyvale, CA 94086, Attn: E. Heron.

SALARY FOR THE POSITION IS $53,500 WITH LIBERAL EMPLOYEE BENEFITS. FOR PROMPT AND CONFIDENTIAL CONSIDERATION, SEND RESUME TO: THE PHILADELPHIA JOB BANK, 444 N. 3RD STREET, 3RD FLOOR, PHILADELPHIA, PA 19123, AND REFER TO ORDER NUMBER 4208584.

Senior Investigator, Immunology

A health care company that markets prescription and proprietary products for human and animal health care has an opening for a Senior Investigator, Immunology in its Department of Immunology at its research and development facility in King of Prussia, Pennsylvania.

The principal duties of the position include planning, directing and controlling research to study the biochemistry of cell activation, particularly the biochemical events that regulate cell function following ligand-receptor interaction, for the purpose of discovering and developing novel pharmacological approaches to immunoregulation and to the control and treatment of immunodeficiency diseases such as AIDS and autoimmune diseases such as rheumatoid arthritis and related immune abnormalities.

The minimum requirements for the position are a Ph.D. degree in Biochemistry or Microbiology and five (5) years experience in ligand-receptor interaction and cell activation and differentiation including the molecular mechanisms and biochemical pathways involved in T cell and macrophage activation and suppression and the signal transduction mechanisms involved in turning on and off responses of specific subsets of immune cells.

Salary of $53,500 with liberal employee benefits. For prompt and confidential consideration, send resume to: The Philadelphia Job Bank, 444 N. 3rd Street, 3rd Floor, Philadelphia, PA 19123, and refer to Order Number 4208584.
TAPE, of polymers, are invited to submit a research proposal or concept paper addressing a specific area of research of interest to the Center. Proposals will be evaluated in collaboration with the Program Officer, supported by an experienced team of reviewers. The selected proposals will receive funding for up to 2 years. More information is available at: [Proposal Submission Details].

POLYMER PHYSICIST—A position in polymer physics is available. The successful candidate will conduct research on the properties and behavior of polymers under various conditions. This includes the study of polymer chain alignment, conformation, and interactions with other materials. Experience in polymer physics, such as knowledge of polymer dynamics, phase transitions, and thermal properties, is essential. A Ph.D. degree and a demonstrated record of excellence in research are required. Interested candidates should send a CV and a letter of application to: [Application Details].

PHYSICIST—A position in high-energy physics is available. The successful candidate will conduct research on particle physics, including the study of particle interactions, detector design, and data analysis. Experience in high-energy physics experiments and a strong record of publications are essential. A Ph.D. degree and at least 2 years of postdoctoral experience are required. Interested candidates should send a CV and a letter of application to: [Application Details].

The Medical College of Wisconsin, Department of Ophthalmology, invites applications for two full-time, TENURE TRACK RESEARCH POSITIONS at both senior and junior faculty levels. Requires Ph.D. or M.D. and at least 2 years of postdoctoral experience. Successful candidates should establish and maintain a research program in eye research. The Medical College is expanding in areas of cell biology, molecular biology, and neurobiology. Applicants with interests that may complement these areas are encouraged to apply. Send résumé, summary of research interests, and names of three references to: [Search Committee Details].

The application period will close on [Application Deadline].
VIROLOGY

As a progressive leader in pharmaceutical research and development, Hoffmann-La Roche offers scientists significant opportunities to make important contributions to human health care.

Due to a recent expansion, we are seeking two individuals with either a BS or MS degree in a Biological Science to join our antiviral research program. You will develop and apply new biochemical and cell-based antiviral assays; mechanism of action studies will be an important element of your research. To qualify, you must have proven ability in Virology, ideally gained through experience in a research laboratory. Familiarity with procedures used in working with infectious materials or a knowledge of biochemistry or molecular biology is highly desirable.

In return, we offer salaries commensurate with your background, an outstanding benefits program, and a state-of-the-art environment that provides many learning opportunities. For consideration, please send your resume with salary history/requirements, to: Mr. John G. Nathan, Dept. IS, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

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VERTEBRATE ECOLOGIST

Assistant Scientist position available for an ecologist with a strong interest in vertebrates. It is expected that this individual would develop a strong research program and would interact with a diverse group of aquatic and terrestrial ecologists with an ecosystem focus. Ph.D. required, postdoctoral experience desirable.

POSTDOCTORAL ASSOCIATES

One or more postdoctoral positions are available. We particularly seek individuals with interests in soils, physiological ecology (plant, animal or microbial), or ecological modeling but will consider other fields as well. The postdoctoral positions are for 1 year and may be renewed for a second year. Applicants must have a Ph.D.

For both positions, applications, along with the names of three referees should be sent to:

Dr. Gene E. Likens
Search Committee
Institute of Ecosystem Studies
The New York Botanical Garden
Box AB, Millbrook, NY 12546
Deadline: We would love to have your application by 14 February 1989. Equal Employment Opportunity.

WATER QUALITY ANALYST with training in hydrology, ecology, chemistry, or related fields. Multi-disciplinary research/advocacy requiring strong verbal, analytical, and personal skills for work on water supply/quality issues in western U.S.; familiarity with water law/policy, agriculture, forestry desirable. Initial 2-year commitment with medical, other benefits. Send résumé, writing sample, to: David Yards, Environmental Defense Fund, 5656 College Avenue, Oakland, CA 94618.

SUMMER SCHOOL

SECOND ANNUAL COMPLEX SYSTEMS SUMMER SCHOOL 4 to 30 June 1989, Santa Fe, New Mexico.

For graduate students and postdoctoral fellows, an intensive introduction to "complex" behavior in mathematical, physical and living systems. Topics include nonlinear dynamics, computational neurobiology, disordered systems, chemical oscillators, pattern formation in biological systems, and design of parallel-processing algorithms.


Director: Erica Jen, Los Alamos National Laboratory.

Information: Andi Sutherland, Santa Fe Institute, 1120 Canyon Road, Santa Fe, NM 87501. Telephone: 505-984-8800; fax: 505-982-0565; email summerschool@sfi.edu

COURSES

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION
20 to 25 February 1989

This course will consist of lectures in methodology with comprehensive syllabi covering receptors, gene transcription, mRNA and protein synthesis, receptor DNA, protein hormones, and cyclic nucleotides.

Co-Directors: M. R. Hughes and B. W. O'Malley

Fee: $365 ($245: fellows and students).

For further information contact:

Bonnie Cuthbert
Department of Cell Biology
Boston University School of Medicine
Telephone: 713-799-6200

Deadline: 29 January 1989

GENETICS SHORT COURSE
17 to 28 July 1989

30th Annual Short Course in Medical and Experimental Mammalian Genetics at Johns Hopkins Medical Institutions. Funded by The Jackson Laboratory at Bar Harbor, Maine. Morning and evening lectures covering the field are supplemented by laboratory work and demonstrations. Inquiries, applications to: Dr. T. H. Roderick, c/o Training and Education Office, The Jackson Laboratory, 600 Main Street, Bar Harbor, ME 04609-0800; or Dr. V. A. McKusick, 292 Carnegie Building, Johns Hopkins Hospital, 600 North Wolfe Street, Baltimore, MD 21205.

GRADUATE STUDIES

GRADUATE TRAINING IN VIRAL ONCOLOGY AND IMMUNOLOGY

Stipends are available for students pursuing a Ph.D. in molecular oncology or immunology beginning September 1989. The principal interests of participating faculty are viral and cellular oncofactors, growth control, and molecular, cellular and tumor immunity. Students will be supported chiefly by an NIH programmatic training grant, requiring U.S. citizenship or resident status. Limited financial support is also available outside of this source. Information and application forms available from: Dr. R. B. Carroll, Graduate Student Advisor, Dr. Jeremiah W. Johnson, New York University Medical School, 550 First Avenue, New York, NY 10016. NYU is an Equal Opportunity Employer.

SYMPOSIUMS

BIOCHEMICAL ENDOCRINOLOGY SYMPOSIUM

The Eleventh Annual University of California, Riverside–Nichols Symposium on Cellular and Molecular Endocrinology will be held Thursday and Friday, 30 March and 31 March 1989 on the University of California, Riverside, campus at the foot of the Box Springs Mountains. The purpose of the meeting is to foster communication among scientists who are interested in the cellular, biochemical and structural aspects of endocrinology. The meeting will have four sessions devoted to the topics of (i) Steroids: Their Metabolizing Enzymes and Receptors, (ii) Regulation of Gene Expression, (iii) Cytokines, and (iv) Sex Differentiation.

Fourteen internationally recognized scientists will present lectures on their work in these areas. They include the following: Steven R. Dower (Seattle), Judith C. Gasson (Los Angeles), Stuart H. Henry (Riverside), Peter T. Lomedico (New Jersey), Claude J. Migeon (Baltimore), Walter L. Miller (San Francisco), J. Wesley Pike (Houston), Robert G. Roediger (New York), Anita B. Roberts (Burlington), Larry J. Shapiro (Los Angeles), Stephen R. Spindler (Riverside), John M. Taylor (San Francisco), Inder Verma (San Diego), and Elizabeth M. Wilson (Chapel Hill).

Registration fees for the meeting are $25 per participant ($15 for postdoctoral students/fellows; $10 for students and $15 for physicians wishing to enroll in the Continuing Medical Education (CME) Program (Category 1) through the University of California, Los Angeles School of Medicine.

For registration and further information please write:

Dr. Anthony W. Norman, Endocrinology Symposium, Division of Biomedical Sciences, University of California, Riverside, CA 92521; telephone: 714-787-5705.

HOW TO MAKE MICROCAPSULES—A HANDS-ON COURSE

A laboratory course designed to teach the art and science of microcapsule making. Suitable for biologists, pharmacists, chemists, life science students and engineers. Enrollment limited to 12. Lectures and laboratory sessions by Dr. Curt Thiess, Professor of Chemical Engineering at Washington University in St. Louis. Spring Sessions: 26 to 29 March and 23 to 26 April 1989. For information, call: 314-889-6066.

CONFERENCE

FOURTH INTERNATIONAL SYMPOSIUM ON VIP AND RELATED PEPTIDES

Stockholm, Sweden

21 to 23 September 1989

Topics will include chemistry, biosynthesis, receptors, physiology, morphology, and clinical relevance. For more information, contact: Registration VIP Symposium, Biochemistry II, Karolinska Institute, Box 60 400, S-104 01 Stockholm, Sweden.

TRAINING PROGRAMS

The Department of Pharmacology and Molecular Sciences and the Anticancer Drug Development Program at the Johns Hopkins University School of Medicine offer Ph.D. TRAINING PROGRAMS for long innovative, interdisciplinary research in the following general areas: (i) protein and carbohydrate structure/function, (ii) molecular biology and gene regulation, (iii) parasitology and virology, (iv) biomedical mass spectroscopy, (v) neuropharmacology, and vii design, synthesis, and testing of new drugs. Stipends are available for qualified applicants. Interested individuals are encouraged to contact: Dr. Mette Strand, Director of Graduate Training, Department of Pharmacology and Molecular Sciences, Johns Hopkins School of Medicine, 725 North Wolfe Street, Baltimore, MD 21205. Telephone: 301-955-7117.

This comprehensive, yet flexible, multidisciplinary program encompasses 24 months of full-time investigative training in biochemistry, cardiology, pharmacology, or neuropharmacology, and is designed as POSTDOCTORAL RESEARCH TRAINING to individuals with Ph.D. degrees in biomedical science or M.D. degrees who are interested in academic medicine. Trained supervised by a faculty sponsor will have opportunities to acquire the knowledge and skills necessary to become independent investigators in cardiovascular research. Inquiries should be made through: Dr. Robert O'Rourke, Division of Cardiology, Dr. Vernon Bishop, Department of Pharmacology, or Dr. Caroline Nelson, Department of Biochemistry, The University of Texas Health Science Center at San Antonio, TX 78284.

POSTDOCTORAL TRAINING PROGRAM

CELLULAR AND MOLECULAR ENDOCRINOLOGY

Postdoctoral traineeships are available starting in 1989 in an NIH-supported program. Trainees with a Ph.D. or M.D. degree having U.S. citizenship or permanent residence in the United States will participate in a research program with one of thirteen faculty from the Biochemistry Department and the Division of Biomedical Sciences on the campus of the University of California, Riverside. The purpose of the program is to provide for research training at the postdoctoral level in the following five major areas of focus: (a) insulin, related growth factors, and their actions; (b) endocrinology of vitamin D, calcium and bone cell metabolism; (c) production and actions of lymphokines, hematopoietic growth factors and cytokines; (d) molecular and cell biology of hormone synthesis and action; and (e) transduction and intracellular events in hormone action. For detailed information and application forms write to: Dr. Anthony W. Norman, Program Director Division of Biomedical Sciences University of California Riverside, CA 92521 Telephone: 714-787-5705

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Applications and nominations are invited for the position of Vice President for Academic Affairs at Wake Forest University. The chief academic officer of the university reports directly to the president and is responsible for supervising and administering the academic programs and plans of the university. Reporting to the vice president for academic affairs are the deans of Wake Forest College, the School of Business and Accountancy, the Graduate School of Arts and Sciences, the School of Law, and the Babcock Graduate School of Management.

Wake Forest seeks a person with a deep commitment to academic excellence to provide leadership during a period of substantial development of all its programs. Applicants must hold an earned doctoral degree and possess scholarly accomplishments commensurate with the rank of tenured full professor. Further criteria include:

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- A commitment to graduate and professional education;
- Successful teaching and research experience at the collegiate level;
- A record of distinguished leadership in academic administration;
- A firm commitment to the mission of the university;
- Experience with strategic planning as it relates to nonprofit institutions;
- Demonstrated ability to work effectively with faculty, students, and staff in fostering academic excellence;
- Ability to build a consensus and work effectively with all groups in the university; and
- A vision of liberal arts education in the twenty-first century.

Salary will be commensurate with experience and qualifications. Projected appointment date is July 1, 1989.

The deadline for applications and nominations is February 15, 1989.

Wake Forest University, located in Winston-Salem, North Carolina, is a 154-year old liberal arts university with approximately 5,100 students and 800 faculty in six schools (including the Bowman Gray School of Medicine).

Correspondence should be addressed to:

Dr. John P. Anderson
Chair, Search Committee
Wake Forest University
P.O. Box 7249
Winston-Salem, NC 27109

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The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug, Inc., announces openings for Sr. Research Biologists in its Immuno-pharmacology Department at its Rensselaer, New York facility.

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