CHALLENGING OPPORTUNITIES
IN BIOMEDICAL RESEARCH

STAFF FELLOWSHIP PROGRAM
DHHS/PHS/FOOD AND DRUG ADMINISTRATION
CENTER FOR BIOLOGICS EVALUATION AND RESEARCH

The Center for Biologics Evaluation and Research is searching for outstanding candidates to conduct biomedical research to provide a strong scientific base for the regulation of biological products. The Center's mission is to protect and enhance the public health with respect to the blood supply, vaccines, and biological therapeutics. The primary responsibility of the Center is to review the safety and efficacy of vaccines, blood products, certain diagnostic products and other biological and biotechnology-derived human products. In conjunction with regulatory and research responsibilities, the Center statistically evaluates clinical and preclinical studies of human biological products and vaccines and epidemiologically evaluates post-marketing studies and adverse biologics reactions. These positions offer the opportunity to participate in the development and approval process for new biological products. Current research includes investigations in the areas of viral and bacterial diseases and vaccines, mechanisms of pathogenesis, cytokines and growth factors, allergy and immunology, parasitic diseases, and developmental biology. We have active research on AIDS and related diseases. This is a truly unique fellowship program which integrates diverse biomedical research efforts with an introduction to the scientific principles applicable to biologics development and control.

Qualifications: Candidates for the Staff Fellowship Program must have completed all requirements from an accredited institution for a doctoral degree (M.D., Ph.D., or equivalent degree). Graduates of foreign medical schools must submit a copy of their permanent Educational Commission for Foreign Medical Graduates (ECFMG) certification. Candidates must be either U.S. citizens or resident aliens eligible for citizenship within four years.

Duration: Appointments are for an initial two-year period and may be extended up to a total of seven years.

Location: Laboratories are strategically located on the campus of the National Institutes of Health in Bethesda, Maryland, or in close proximity to the campus.

Salary: Salary range for candidates with a doctoral degree (other than M.D.) is from $28,000 to $62,293 per annum. Salary range for candidates with a medical degree is from $28,000 to $73,472 per annum. Salary, research support, and level of responsibility are commensurate with education and experience.

Positions may also be filled by appointment in the U.S. Public Health Service, Commissioned Corps, Research Officer Group, with commensurate salary and benefits. Candidates for this program need to meet Commissioned Corps appointment standards.

How To Apply: Applications are accepted throughout the year, and candidates should indicate when they will be available for employment. Interested candidates should indicate type of Fellowship position applying to, Post Doctoral or Career Track, and send a current curriculum vitae, statement of research interest, bibliography, transcripts, and names of three references to:

FDA/Center for Biologics Evaluation & Research
1401 Rockville Pike, HFM-60
Rockville, Maryland 20852-1448
Attention: EEO Recruitment Coordinator (122)

FDA IS AN EQUAL OPPORTUNITY EMPLOYER AND HAS A SMOKE FREE ENVIRONMENT
Public Announcement Regarding New Research and Development Projects on a Next-generation Dental Product Engineering System, a Comprehensive System for Assisting Wheelchair Users and a System for Supporting Independent Evacuation

Announced by the New Energy and Industrial Technology Development Organization on November 12, 1993

In order to promote the research and development of industrial technologies, the New Energy and Industrial Technology Development Organization (NEDO) would like to inform all interested companies and research organizations regarding the three research and development projects described below. These new projects are being undertaken as part of the Research and Development Program on Medical and Welfare Equipment Technology of the Agency of Industrial Science and Technology, Ministry of International Trade and Industry of Japan.

**Themes of the Research and Development Projects**
1. "R&D of a Next-generation Dental Product Engineering System"
2. "R&D of a Comprehensive System for Assisting Wheelchair Users"
3. "R&D of a System for Supporting Independent Evacuation"

**Outline of the Research and Development Work to be Entrusted**
1. **R&D of a Next-generation Dental Product Engineering System**
   The objective of this project is to develop technology for a next-generation engineering system which enables the design and manufacturing of more suitable dental products such as crowns, bridges and complete dentures at a lower cost through computer aided design (CAD) and computer aided manufacturing (CAM).

2. **R&D of a Comprehensive System for Assisting Wheelchair Users**
   The objective of this project is to develop technology for a comprehensive system for assisting wheelchair users. The overall system consists of two systems. The first is a supporting system for determining, designing, and manufacturing wheelchairs highly suitable to individual users through CAD and CAM. The other is a system for assisting wheelchair users in transiting public places with differences in level, such as staircases, and without any facilities for wheelchair users.

3. **R&D of a System for Supporting Independent Evacuation**
   The objective of this project is to develop a system which will help people who are bedridden (but fully conscious) as a result of, for example, a fracture or apoplexy to evacuate by themselves.

**Procedures for Application**

(1) **Qualification Criteria**
All companies or research organizations who meet the following qualification criteria may submit an application to participate in the above projects:
1. The applicant must have previous research and development experience in the field covered by or related to a project and possess the organizational structure, human resources and research facilities required to carry out the project work.
2. The applicant must be in sound financial condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
3. The applicant must be able to comply with NEDO's instructions to fully carry out the project work.
4. The applicant must attend the explanatory meeting held by NEDO as set forth in item (2) below or be represented at the meeting by a responsible agent or representative who is capable of accurately conveying the contents of the meeting in detail.

(2) **Explanatory Meeting**
An explanatory meeting will be held on the dates shown below in order for NEDO to fully explain the details of each project's research and development work to be entrusted and the application documents to be submitted. All companies or research organizations who are interested in submitting an application to participate in a project are required to attend this meeting or to send an agent or representative to attend on their behalf. Japanese will be the only language used during the meeting.

- **Date:** Monday, November 29, 1993
- **Time:** 14:00 to 15:30
- **Place:** NEDO's Head Office
  30th Floor, Sunshine 60 Building
  1-1, Higashi-Ikebukuro 3-chome
  Toshima-ku, Tokyo Japan

(3) **Further Information**
For further information regarding the research and development work to be entrusted under the above projects, please contact NEDO by telefax as follows:

- New Energy and Industrial Technology Development Organization
- Contract Division, Accounting Department
- 28th Floor, Sunshine 60 Building
- 1-1, Higashi-Ikebukuro 3-chome
- Toshima-ku, Tokyo 170 Japan
- Telefax: +81-3-5992-1184
Creating the right chemistry through diversity.

Good chemistry is as important to the development of your career as it is to our company products. At Gensia, we take pride in the fact that we’re creating the right chemistry through diversity.

Gensia, Inc. is a San Diego, CA based, publicly traded biopharmaceutical company that sets a rapid pace in scientific achievements. Combining the right mix of talents and resources and nurturing them in a supportive corporate culture have been key elements in the development of innovative biopharmaceutical products for diabetes, inflammation, and cardiovascular, cerebrovascular and neurological diseases. We have filed our first NDA on Arasine, and will soon be filing our next NDA on our second program, the GenESA system, which combines Arbutamine (a novel catecholamine drug) with a closed-loop, computer-controlled drug delivery device.

Our future plans call for even more extensive clinical research programs; relocation to a 150,000 square foot, state-of-the-art headquarters facility; and the addition of biotech professionals with unique skills to help us expand and share in our future growth. We are interested in discussing employment possibilities with qualified professionals in these areas:

**CHEMISTRY**

**Medicinal Chemist/ Synthetic Organic Chemist**
Will conduct research involving the design and synthesis of novel compounds for therapeutic targets. A Ph.D. in Chemistry and 3+ years’ medicinal chemistry experience are required. Dept. MC/ME

**Associate Director/Director, Medicinal Chemistry**
Strong leadership, organizational skills and a strong record of scientific accomplishments are required, as well as a Ph.D. in Chemistry and 4+ years’ drug discovery experience. Dept. AD/ME

**Associate Director/Director, Chemical Development**
A Ph.D. in Chemistry and 4+ years’ pharmaceutical industry experience, including process chemistry group experience focused on the synthesis of development candidates, are required. Dept. AD/ME

**PHARMACOLOGY/ PHARMACOKINETICS**

**Cardiovascular Pharmacologist**
Will design, conduct and supervise evaluation of cardio-protective drug candidates for in vivo models of cardiac disease. This position requires a Ph.D. in Pharmacology/Physiology or relevant medical science. 1-2 years' post-doc must include surgical techniques, cardiovascular disease and experimental design/analysis experience. Dept. CP/MY

**PHARMACEUTICAL AND DELIVERY SYSTEMS DEVELOPMENT**

**Associate Director, Analytical**
Lead our Pharmaceutical and Delivery Systems Development group in support of pre-clinical development. A Ph.D. and 7+ years’ development experience, preferably in sterile product development/manufacturing, are required. Dept. AD/YJ

**Manager, Corporate Quality Operations**
Assist in developing systems, procedures and policies for the Process Chemistry and Drug Development departments. Will audit bulk drug and finished product manufacture, interface with production facility personnel, and implement/develop corporate quality assurance programs. If you’re looking for good chemistry in a career-enriched environment where you can still make an impact, consider Gensia. Our success is hinged on an environment that fosters a synthesis of diverse disciplines and perspectives.

At Gensia, we have the human resources, the financial resources and the vision to meet the long-term challenges necessary to bring new drugs to market. There’s an entrepreneurial environment at our San Diego headquarters. Here, the quality of life complements the excitement of working in the heart of one of the nation’s top biotech and academic centers, with a team of highly creative scientists. If your current position doesn’t fulfill your high capacity potential, this is the perfect time to join forces with a dynamic forerunner.

We offer a competitive salary and comprehensive benefits package, which includes a stock option plan. Qualified candidates are encouraged to submit a resume and salary history to: Gensia, Inc.; Human Resources Dept. (please indicate appropriate dept. code); 11025 Roselle St.; San Diego, CA 92121-1204; or FAX it to (619) 622-5840. *Gensia is proud to offer equal employment and a culturally diverse work environment to everyone.*
TWO TENURE-TRACK ASSISTANTSHIPs
SUNY COLLEGE AT PLATTSBURGH

(1) PHYSIOLOGIST/CHEMIST: The Department of Biology and Chemistry invites applicants for an integrative position. The successful candidate must be qualified to teach introductory biology, and will have an area of expertise. Candidates with teaching experience are preferred (BOX 1841-246).

(2) MICROBIAL PHYSIOLOGIST: The Department of Biology invites applicants with a strong background in microbiology and with expertise in microbial ecology, taxonomy or plant-microbe interactions. The successful candidate will teach courses in general microbiology and microbial physiology (BOX 1840-246).

Both positions require a Ph.D. and a commitment to developing a research program. Applicants must have teaching experience; they may also have additional expertise in either area.

SENIOR SCIENTIST: In addition to full-time tenure-track positions, SUNY Plattsburgh invites applications for a senior scientist position in its biology division. The successful candidate will develop an independent research program in an area of need within the biology department. The successful candidate will supervise graduate students engaged in research in his or her area of expertise.

SENIOR SCIENTIST/DICHTOMY: Atena offers an opportunity to study the development of echinoderms. Successful applicants will be expected to establish an independent research program in the biology department. The successful candidate will supervise graduate students engaged in research in his or her area of expertise.

SENIOR SCIENTIST/PRIMATE PHYSIOLOGIST: The Department of Biology invites applicants with expertise in the area of primate physiology. The successful candidate will be expected to develop an independent research program in an area of need within the biology department. The successful candidate will supervise graduate students engaged in research in his or her area of expertise.

SENIOR SCIENTIST/ECOLOGICAL PHYLOGENIST: The Department of Biology invites applicants with expertise in the area of ecological phylogenetics. The successful candidate will be expected to develop an independent research program in an area of need within the biology department. The successful candidate will supervise graduate students engaged in research in his or her area of expertise.

APPLICATIONS: Applications should be made on the official SUNY Plattsburgh application form and submitted to: Dr. Paul M. Boulter, Department of Biology, SUNY Plattsburgh, Plattsburgh, NY 12901. The closing date is March 1, 1994, or until positions are filled.

SUNY PLATTSBURGH IS AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER.

ASSISTANT PROFESSOR OF ENVIRONMENTAL BIOLOGY

Applications for a tenure-track position are invited (fall 1994). Requires a broadly trained biologist/environmental scientist for 12 contact hours in biology, science and environmental biology. Teaching expertise, promise of successful research program in environmental biology are desirable. Ph.D. preferred. Salary $27,000 minimum. Submit letter describing teaching philosophy and research goals, curriculum vitae, transcripts, reprints, teaching evaluations, 3 letters of recommendation to: Dr. Mary Schwank, Department of Natural Sciences, University of Maine at Farmington, Farmington, ME 04938. Review begins December 10, 1993. The University of Maine is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities. Upon request, the University provides reasonable accommodations to individuals with disabilities.

VERTEBRATE ECLOGICAL PHYSIOLOGIST—The Division of Ecology, Evolution, and Marine Biology in the Department of Biological Sciences, University of California, Santa Barbara, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level in vertebrate physiology, effective July 1, 1994. Applicants will be expected to carry out physiological research in the context of the evolution of the organisms studied. Preference will be given to individuals with an interest in terrestrial vertebrates. Ph.D. required by the time of the appointment, postdoctoral experience preferred. The successful candidate will be expected to establish a strong research program, to teach broadly based undergraduate courses in comparative vertebrate physiology in the department's physiology major, and to develop an advanced course in this or her specialty. Interested individuals should send a copy of their curriculum vitae and a summary of research goals, and arrange to have three letters of recommendation sent by December 1, 1993, to: The Chair, Department of Biological Sciences, University of California, Santa Barbara, CA 93106 USA. The University of California is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY: The Department of Biology at St. John Fisher College invites applications for a tenure-track position at the ASSISTANT PROFESSOR level, to begin in August 1994. Primary teaching responsibility in anatomy and physiology courses for nursing majors. Development of additional courses is expected in other specializations: biology majors and for non-science students. A doctorate in the biological sciences is required. A strong commitment to teaching undergraduates in a demanding context is expected. Please send curriculum vitae, a statement of educational perspectives, and the names, addresses, and telephone numbers, of three references, by December 1, 1993, to: Dr. G. Thomas Crombach, Chairman, Department of Biology, St. John Fisher College, Rochester, NY 14618. St. John Fisher College is an Affirmative Action/Equal Opportunity Employer.
RESEARCH SCIENTIST

The successful candidate will have a PhD degree in pharmacology or physiology, with several years of post-doctoral or industrial experience in analgesic research. This individual will establish a research program aimed at understanding mechanisms underlying pain and the pharmacological (both opioid and non-opioid) pathways effective in pain management. Experience with a variety of pain and nociception models is required. Good written and verbal communications skills, as well as computer capabilities, are desired.

Procter & Gamble is a world leader in the research, development, manufacture, and marketing of a wide variety of consumer products. Our sales exceed $30 billion a year, and our annual R&D investment is over $1 billion. P&G is the leading OTC product marketing company in the U.S., and has a growing prescription drug business. We offer a competitive salary and benefits package placing us among the top 5% of U.S. firms.

For confidential consideration, please send a letter of introduction and resume to:

Procter & Gamble
PhD Recruiting • Dept. PDMI
P.O. Box 398707 • Cincinnati, OH 45239-8707

No agency referrals, please.
An Equal Opportunity Employer

POSTDOCTORAL
SCIENTISTS IN CELLULAR
AND MOLECULAR BIOLOGY

Respiratory Cell Carcinogenesis

CIIT is an independent, not-for-profit research corporation. Our mission is to improve the scientific basis for understanding and assessing the potential adverse effects of chemicals, pharmaceuticals, and consumer products on human health. We are currently seeking Postdoctoral Scientists in Cellular and Molecular Biology to investigate the cellular and molecular basis of airway and pleural cell neoplastic transformation using in vitro approaches.

The successful candidates must have a doctoral degree in a relevant discipline such as cell biology, molecular biology/toxicology or pharmacology. Research projects will involve investigating alterations in growth factor and extracellular matrix signaling pathways in airway epithelial and pleural mesothelial cells resulting from mineral fiber and chemical carcinogen exposure.

CIIT is located in Research Triangle Park, NC, which offers many cultural and recreational activities as well as access to 3 major universities. We offer competitive salary and benefits and a stimulating work environment. Interested applicants should submit curriculum vitae and the names of three professional references, representative reprints and a summary of research interests to: Human Resources Manager, CIIT, P.O. Box 12137, Research Triangle Park, NC 27709.

CIIT is an Equal Opportunity Employer (M/F/D/V)

ZymoGENETICS

Bio-Tech in the Pacific Northwest

ZymoGenetics is a biotechnology company located in Seattle, Washington, making important strides in the development and clinical evaluation of therapeutic products aimed at tissue repair, coagulation disorders, and diabetes. As a subsidiary of NOVO NORDISK A/S, the world's largest manufacturer of insulin, ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation. ZymoGenetics currently has openings for the following:

Process Development Scientist

Lead the design and development of recovery and purification processes of proteins from microbial fermentations and mammalian cell cultures. To qualify, you must have a PhD and at least 5 years of related experience in the pharmaceutical/biotech industry. Ref# 31R193.

Preclinical Studies Scientist

Identify, characterize and perform efficacy studies in appropriate animal models for pre-clinical evaluation of novel drug products. You must have a PhD, MD or DVM and 2+ years of related experience to qualify for this position. Ref# 21R493.

Organic Chemistry Scientist

Perform research in developing new chemistry synthesis of nonpeptide compounds on solid support. To qualify, you must possess a PhD in Organic or Medicinal Chemistry and 2+ years' related experience in solid and solution phase organic synthesis and screening technologies. Ref# 15N593.

ZymoGenetics

offers intellectual challenge, state-of-the-art facilities, and a generous benefits package. Please apply by sending your CV, noting the reference number you are applying for, to:

ZymoGenetics, Inc.,
ASSISTANT PROFESSOR
UNIVERSITY OF GEORGIA
DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology at the University of Georgia invites applications for a new tenure-track Assistant Professor faculty position in cellular/molecular aspects of microbial physiology or microbial pathogenesis. Qualifications for the position include a doctoral degree and a minimum of two years of postdoctoral experience, a strong record of research productivity, and a commitment to excellence in teaching. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

HARVARD MEDICAL SCHOOL
DEPARTMENT OF PATHOLOGY

The Department of Pathology at Harvard Medical School seeks well-qualified (Ph.D., M.D./Ph.D., or M.D.) applicants for several positions of ASSISTANT PROFESSOR as part of an expansion of a basic research program in tumor biology. Candidates should have completed 3 to 5 years of relevant postdoctoral experience and have the capability of directing an independent research program in an academic setting in the areas of cell cycle control, transcriptional regulation, tumor suppression, and signal transduction as they relate to cancer biology and viral oncology. Candidates are expected to participate in the teaching activities of the department for medical students, graduate students, and postdoctoral fellows. Recently renovated laboratory research space will become available in July 1994. Applicants should send their curriculum vitae, a statement of research interest, and the names of three references to: Dr. Peter Howley, Associate Dean, Harvard Medical School, 720 Westview Drive, Atlanta, GA 30310.

TENURE-TRACK FACULTY POSITION
MOLECULAR MAMMALIAN GENETICS

The Department of Molecular and Cellular Biochemistry, University of Georgia, located in Athens, Georgia, is seeking a molecular biologist with interest in mammalian gene expression at the level of ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR. Indicated are expertise in signal transduction, immunology, and tumor biology. Applicants should have completed a Ph.D. degree, and a brief statement of their research goals and three letters of reference are requested. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

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SALES REPRESENTATIVES

To develop, promote and manage the sale of products within an assigned territory. Responsible for demonstration of products to customers and the gathering of information on competitive products. Qualified candidates must possess BS degree in Biology, Molecular Biology, Chemistry or a life science plus previous laboratory experience utilizing techniques and instrumentation related to biotechnology. DEPT. S.R.

FIELD APPLICATION SPECIALISTS

To call on customers to familiarize them with related equipment operation/maintenance as well as new and emerging techniques. Individuals must have excellent presentation and communication skills required to conduct technical seminars and training as well as the ability to troubleshoot problems in an effective manner. Qualified candidates must possess a BS degree in Biology, Molecular Biology, Chemistry or a life science and strong laboratory background with experience in technical support of similar product lines. Familiarity with molecular biology techniques as well as DNA sequencing helpful. DEPT. F.A.S.

RESEARCH/DEVELOPMENT & PRODUCTION OPPORTUNITIES

Opportunities exist in Research/Development and Production for individuals interested in developing new kits and reagents for molecular and cell biology products, as well as purification of restriction nucleic acid modifying enzymes, using a variety of protein purification techniques; production of molecular biology reagents by chemical and enzymatic methods; performing the quality control of molecular biology reagents. Candidates must possess a BS/MS degree in Chemistry, Biochemistry, Molecular Biology, or Biology. In addition previous experience is required working in a laboratory or in an industrial setting, using modern molecular biology techniques and practical experience in immunology, cell culture, DNA cloning, and DNA sequencing. DEPT. R&D/P.

To be considered for current/future opportunities please forward your resume/CV including DEPT CODE of position desired to:

(Sales/Application positions)
Manager, Human Resources
Pharmacia Biotech Inc.
800 Centennial Ave.,
Piscataway, NJ 08854

(R&D/Production positions)
Manager, Human Resources
Pharmacia P-L Biochemicals Inc.
2202 N. Bartlett Ave.,
Milwaukee, WI 53202

Equal Opportunity Employer M/F/V

Liposome Technology, Inc.

Liposome Technology, Inc. (LTI) is engaged in the development, manufacture, marketing, and sale of proprietary liposome and lipid-based products to treat life-threatening illnesses. LTI's strategic emphasis is on injectable pharmaceutical products designed to improve the efficacy and reduce the toxicity of existing and new drugs used to treat cancer and infectious diseases.

To meet our continuing growth, we offer a variety of interesting career choices to both entry-level and experienced individuals.

LTI is a progressive company dedicated to providing its employees with a professional, yet friendly, working environment, and competitive salaries/benefits. Please send your resume to: Liposome Technology, Inc., Professional Staffing, 1050 Hamilton Court, Menlo Park, CA 94025, or fax to: (415) 324-3928.

PRINCIPALS ONLY
NO PHONE CALLS PLEASE.
WE ARE AN EQUAL OPPORTUNITY EMPLOYER.

Pharmacia

Bristol-Myers Squibb Pharmaceutical Research Institute is the R&D Division of Bristol-Myers Squibb, a worldwide leader in the discovery and development of innovative pharmaceuticals.

Bristol-Myers Squibb

STAFF VETERINARIAN

Bristol-Myers Squibb Pharmaceutical Research Institute announces an immediate opening for a Staff Veterinarian at their Princeton, NJ site. This 110,000 square foot facility is located in suburban New Jersey with easy access to Philadelphia, New York City, and numerous recreational and cultural activities. The laboratory animal facility has a diversity of support programs for the basic science and pharmaceutical departments it serves. A full complement of species is maintained in this AAALAC accredited facility.

We are seeking a fully qualified ACLAM eligible or boarded veterinarian for this position. Major responsibilities include the conducting of our animal health programs designed to screen and maintain the quality of animal colonies and to direct comprehensive sentinel, diagnostic and vendor health surveillance programs. The successful candidate is expected to have a career history with extensive experience in rodent, dog and primate animal health. Knowledge of and experience with immunocompromised rodent colonies is considered an important asset. The Staff Veterinarian will be a major contributor to the overall department and program development.

Correspondence including resume and salary history should be sent to: Dr. Dennis M. Stark, Executive Director, Veterinary Sciences, Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000 - D2.493, Princeton, NJ 08543-4000. Bristol-Myers Squibb is an equal opportunity employer.
VEGETABLE CROPS PRODUCTION AND POSTHARVEST HORTICULTURIST

An 11-month, career-track extension/experiment station position is available at the ASSISTANT or ASSOCIATE ranks. Area of emphasis will be an extension and applied research program integrating vegetable crop production, environmental quality and post-harvest food quality. Responsibilities will be on crop water management in vegetable cropping systems in the San Joaquin Valley, and their effects on postharvest quality. Appointment will provide statewide Extension leadership, international Soros program and development of crop advisor training and advising. Affirmative Action is an integral part of the program. Appointment will have the opportunity to represent the Department in directing undergraduate and graduate research. Requirements include: a Ph.D. in horticulture, agronomy, crop science, plant or soil science, or a closely related discipline; demonstrated ability or experience in irrigated agricultural production systems; understanding of postharvest research and extension; and a record of scholarly and academic achievement. Send curriculum vitae, statement of extension and research interests, documentation of extension, research, and teaching experience, official transcripts and names and addresses of at least three references by March 15, 1994, to: Ronald E. Voss, Search Committee Chair, Department of Vegetable Crops, University of California, Davis, CA 95616-8335. Telephone: (916) 752-1249; Fax: (916) 752-9659. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ANIMAL ECOLOGY/BEHAVIORAL ECOLOGY

Harvard University

The Department of Organismic and Evolutionary Biology at Harvard University seeks applications and nominations for two ASSISTANT PROFESSORS, one in animal ecology and one in behavioral ecology. We encourage applications from candidates with expertise in areas including empirical and theoretical approaches to behavioral ecology, population biology and/or community ecology.

Applications should be sent by January 1, 1994, curriculum vitae, statements of research, and names, addresses and telephone numbers of at least three references to: Professor N. E. Pierce, Animal Ecology/Behavioral Ecology Search Committee, Department of Organismic and Evolutionary Biology, 26 Oxford Street, Cambridge, MA 02138.

Harvard University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority groups.

CELLULAR BILOGISTS

The Department of Zoology (reorganizing as the Department of Cellular Biology) at the University of Georgia seeks to fill two tenure-track ASSISTANT PROFESSOR positions. Responsibilities include expertise in electron microscopy and in cell structure. Obligations for both positions include research as well as teaching at the undergraduate and graduate levels. We seek candidates who have excellent teaching and research interests, and at least four letters of recommendation to: Dr. Kojo Mensa-Wilmot, Chair of Search Committee, Department of Zoology, University of Georgia, Athens, GA 30602. Applications received by December 22, 1993, are assured of consideration. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

ANTICIPATED FACULTY POSITION—ANALYTICAL CHEMISTRY WITH ENVIRONMENTAL APPLICATIONS

Trinity College and the Neuroscience Program seek a tenure-track ASSISTANT PROFESSOR of cognitive neurochemistry/neuropsychology, starting August 1994. Research specialty is open. We are particularly interested in someone who can contribute to our interdepartmental studies in research. The successful candidate will work on projects related to laboratory equipment, animal husbandry, and students. Send curriculum vitae, three letters of recommendation, evidence of teaching effectiveness, and a copy of the curriculum vitae to: Dr. Karl Haberland, Department of Psychology, Trinity College, Hartford, CT 06106. Trinity College is an Affirmative Action/Equal Opportunity Employer.

POLYMERS/MATERIALS SCIENCE ASSISTANT PROFESSOR

The University of Tennessee, Knoxville (UTK), invites applications for a tenure-track Assistant Professor position, effective August 1994, in polymer/materials science with emphasis on synthesis and applications of biopolymers and/or organic polymers. The individual must have: a Ph.D.; postdoctoral or independent research experience; a highly productive research agenda and an extensive publication record; and a list of publications. Application materials, as well as three letters of recommendation, should be sent to: Dr. L. W. Whitney, Chair, Search Committee, Department of Chemistry, University of Tennessee, Knoxville, TN 37996-1600. Evaluation of completed applications will begin on December 1, 1993, and will continue until the position is filled.

UTK is an Equal Employment Opportunity/Affirmative Action/TITLE IX/SECTION 504/ADA Institution.

APPLICATIONS OPEN

POSITIONS OPEN

SOUTH FACING POSITION

Department of Chemistry, University of South Florida

Applications and nominations are invited for a senior-level tenured faculty position in ASSOCIATE or FULL Professor. We are seeking applicants who have a strong record of research accomplishments, a national/international recognition, and a commitment to teaching. All areas of biochemistry will be considered. We are particularly interested in scientists using methods of molecular biology. Applications should be sent to: Dr. John L. Speakman, Dean, College of Arts and Sciences, University of South Florida, Tampa, FL 33620. An Equal Opportunity/Affirmative Action Employer. Applications should include a statement as to how they plan to participate in the application/selection process because of a disability must notify the Committee Chairperson five days in advance (813-974-2139).
MINORITY TRAINEESHIPS IN OCEANOGRAPHY

The Woods Hole Oceanographic Institution offers special educational opportunities in oceanography for minority undergraduate U.S. citizens or permanent residents. These awards are designed to provide training and research experience in Woods Hole for students who have completed at least two semesters of undergraduate study in physical or natural science, mathematics, or engineering, and have an interest in oceanography or oceanographic engineering.

Traineeships may be awarded for a ten to twelve week period in the summer or for a semester during the academic year and may be renewed the following year. A Trainee is paid a stipend of $315 per week, plus a round-trip travel allowance to Woods Hole.

Beginning in 1994, one or more traineeships will be jointly sponsored with the:


Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. Or call (508) 457-2000, ext. 2200.

An equal opportunity/affirmative action employer WHOI is a smoke-free workplace.

Research Coordinator, ICLARM International Network on Genetics in Aquaculture (INGA)

The International Center for Living Aquatic Resources Management (ICLARM) is a nonprofit, non-governmental, international center with headquarters in the Philippines. ICLARM is a member of the Consultative Group on International Agricultural Research (CGIAR) and is funded by a number of government agencies and foundations.

ICLARM is seeking a coordinator for the International Network on Genetics in Aquaculture (INGA), which has been established to link genetic researchers involved in the development of national fish breeding programs in developing countries.

Qualifications and Experience: A Ph.D. in biological or agricultural sciences; experience in applied genetics as supported by research publications; experience in working in close partnership with National Research Systems in developing countries, and in network coordination, with a knowledge of modern computer-based communication and publishing systems; interpersonal skills to work with scientists and administrators from diverse backgrounds; and fluency in written and spoken English. Working knowledge in any other major language, particularly French, would be an advantage.

The position is based at ICLARM headquarters, Manila, with frequent travel to network member countries. A 3-year contract will be made initially with provision for extension depending upon performance and availability of funds.

Salary and benefits are competitive with those of similar international institutions.

Application: Send application with full documentation, including three references, to: Dr. L.D. Sufel, Director General, ICLARM, MCPO Box 2631, Makati, Metro Manila, Philippines. Phone (63-2) 817-5163, 818-0466; Fax (63-2) 816-3183. Applications should be received before 10 December 1993.

PHYSICIAN/SCIENTIST

The Arthritis and Rheumatism Branch (ARB) of the National Institute of Arthritis and Musculoskeletal and Skin Diseases (NIAMS), National Institutes of Health (NIH), Public Health Service (PHS), which conducts laboratory and clinical research related to immunology, inflammation, and particularly autoimmunity and autoimmune diseases, is recruiting for two tenure-track or tenured positions.

One position requires the expertise of a physician/scientist who will develop an independent research program involving both laboratory and clinical research. In addition to laboratory and office space, common facilities are available.

The second position requires the expertise of a physician/clinical investigator who will develop an independent clinical research program related to the rheumatic diseases. Opportunities include both inpatient and outpatient research and collaborations with research scientists and clinical investigators on the NIH campus.

Candidates for both positions must hold an M.D. degree and be Board Eligible or Board certified in Rheumatology. Salary is $39,000 to $108,200 depending on experience and the type of appointment.

Send curriculum vitae, bibliography, a list of three individuals who can serve as references, and a one-page summary of research plans and interest to:

Dr. Henry Metzger
Chief, ARB
9000 Rockville Pike
Building 10, Room 9N228
NIAMS, NIH
Bethesda, MD 20892

NIH is an Equal Opportunity Employer
### Cooperative Research Units
#### U.S. Fish and Wildlife Service

The U.S. Fish and Wildlife Service invites applications for two fisheries research biologist positions (GS-482-11 [$33,623–$43,712]/GS-12 [$40,298–$52,385]) to serve as Assistant Leader for Fisheries at Cooperative Research Units in Ohio and New Mexico. Successful candidates will be located on cooperating university campuses and will receive a courtesy faculty appointment at the host university.

Assistant Unit Leader duties include establishing a strong research program, teaching at the graduate level, and providing technical assistance on fisheries resource issues. Requirements for the positions include a record of research productivity or resource management training and experience, a commitment and ability to teach, and ability to administer research grants and program budgets. Candidates must meet the requirements for a faculty appointment.

To apply, send a completed SF-171 and OPM Form 1170 (List of College Courses) for each vacancy of interest to Ms. Dot Easley, Personnel Division, Research and Development, U.S. Fish and Wildlife Service, Mail Stop 725 ARLSQ, Washington, D.C. 20240. Applications must reference the particular State for which you are applying. Applications for the Ohio and New Mexico Assistant Leader positions must be postmarked no later than November 22, 1993.

Additional vacancies expected to be announced soon are:

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<tr>
<th>State</th>
<th>Position</th>
<th>Unit Leader</th>
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<tr>
<td>Alabama</td>
<td>Assistant Leader for Fish</td>
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<td>Arkansas</td>
<td>Assistant Leader for Wildlife</td>
<td>Maryland (Nov., Dec. 93)</td>
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<td>Florida</td>
<td>Assistant Leader for Fish</td>
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<td>Georgia</td>
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<td>Maryland</td>
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All positions will become part of the National Biological Survey.

The Fish and Wildlife Service will pay up to $10,000 in relocation expenses selected candidates that are not already employed by the Federal Government.

For additional information, including vacancy announcements contact the Cooperative Research Units Center, USFWS, Mail Stop 725 ARLSQ, Washington, D.C. 20240 or phone (703) 358-1709.

The Fish and Wildlife Service is an Equal Opportunity Employer.

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### THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
#### Department of Chemistry

**FACULTY POSITIONS**

The Hong Kong University of Science and Technology, with the mandate to become one of the eminent technological research universities in the world, was established in April 1988. Students were first admitted for October 1991 at both undergraduate and post-graduate levels including the doctorate. The medium of instruction is English. The Department of Chemistry invites applications for the following positions in all areas of chemistry: Professor: min. US$107,300 p.a.; Reader: US$78,400 - US$104,100 p.a.; Senior Lecturer: US$75,100 - US$100,900 p.a.; Lecturer: US$48,400 - US$90,800 p.a. The area of expertise is open but special consideration will be given to Chemical/Biosensors, Molecular Electronics, chemistry of new advanced materials (design/synthesis/characterization), time-resolved laser spectroscopy and drug discovery/design/synthesis. Applications are particularly invited for a Senior Lecturer position with research interests and experience in natural products, Chinese medicinal chemistry and pharmaceutical development. Applications in response to earlier advertisements will automatically be reviewed and such candidates need not re-apply. Generous fringe benefits including medical and dental benefits, annual leave, and children's education allowances are provided. Air passages and housing are also provided where applicable. Initial appointments will generally be on a three-year contract; a gratuity of an amount equal to 25% of the basic salary drawn will be payable upon successful completion of contract. Re-appointment after the initial contract will be subject to mutual agreement. Approved sabbatical leave will be at full salary. Applications should be sent with a C.V., together with names and addresses of three references, to Professor Nai-Teng Yu, Head of Department of Chemistry, The Hong Kong University of Science & Technology, Clear Water Bay, Kowloon, Hong Kong (Fax: 852-358-1594) by 17 February 1994, but the search will continue until suitable appointments are made.

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### PLANNING GRANTS AVAILABLE
#### THE McKNIGHT FOUNDATION COLLABORATIVE CROP RESEARCH PROGRAM

The Foundation has committed up to $12 million over the next six years for the support of basic and applied plant biology research on topics important to improved food production in less developed regions of the world. Grants of up to $300,000 per year will support work jointly planned and collaboratively conducted by research groups in the United States and in less developed countries.

The Foundation will award up to fifteen planning grants to facilitate the preparation of proposals for support under this highly competitive program. Scientists working in the United States or in a less developed country and interested in applying for a planning grant should promptly request eligibility requirements and guidelines from:

The McKnight Foundation, Minneapolis, Minnesota, USA
Phone: 612-333-4220; FAX: 612-332-3833; Email: GoodmanR@MACC.WISC.EDU

Applications for planning grants must be received by March 1, 1994; planning grants are expected to be announced in April 1994.

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### ADVANCED TRAINING IN THE APPLICATION OF MOLECULAR, STRUCTURAL, AND CELLULAR BIOLOGY TO ANTICANCER THERAPEUTICS
#### Massey Cancer Center
Virginia Commonwealth University
Richmond, Virginia

This is a postdoctoral training program aimed at enabling individual qualifications and motivation to initiate a career in the challenging and rewarding field of cancer therapeutics. The objectives of the program are to allow trainees to apply the approaches fundamental to modern biology to front-line research problems in this area as well as to develop the practical skills needed to be competitive for today's academic or industrial positions. The spectrum of training is comprehensive and is supported by an interactive faculty involved in cellular and molecular biology, fundamental protein and nucleic acid biochemistry, drug design and molecular graphics, molecular genetics, and biochemical and molecular pharmacology. The major emphases of the program are the components of structural biology (protein and nucleic acid crystallography, computational chemistry, and high-field NMR), growth factor-initiated signal transduction, control of programs of differentiation, control of cellular proliferation, programmed cell death, and mechanisms of action studies.

The program is supported by an NCI-funded Training Grant and by the comprehensive array of core laboratories available to trainees at the Massey Cancer Center. Stipends start at $25,000 per annum. Contact Dr. Richard G. Moran at the Massey Cancer Center, Medical College of Virginia, MCV Box 230, Richmond, VA 23298-0230. US citizenship or permanent residence status is required. MCV/VCU is an equal opportunity employer. Women and minorities are encouraged to apply.
BACHELORS IN:
- Electrical Engineering
- Industrial Engineering
- Mechanical Engineering
- Civil Engineering
- Industrial Management
- Land Surveying

MASTER IN:
- Engineering Management

Structure-Based Methods of Drug Discovery

Our research labs have led the way in the use of the three-dimensional structure of protein targets to guide medicinal chemistry efforts. We believe that understanding the molecular details of protein/ligand interactions is a crucial part of the drug discovery process, and our commitment to obtaining such information for key therapeutic targets is exemplified by our pioneering structural studies with various enzymes important in disease (e.g., Carbonic Anhydrase, HIV Protease, Inositol Monophosphatase, Stromelysin, PMN Elastase, etc.)

PROTEIN BIOCHEMISTRY
SENIOR SCIENTIST

Currently we are seeking a Ph.D. level scientist to join our Biophysical Chemistry group. A broad background in biochemical techniques and extensive experience with the purification of recombinant proteins is required. You will oversee the development of purification strategies and characterization of recombinant proteins, and will be a critical member of a multi-disciplinary team consisting of molecular biologists, x-ray crystallographers, NMR spectroscopists, computational chemists, and synthetic chemists. State-of-the-art facilities have recently been completed to house this growing team.

Strong communication, managerial and multi-tasking skills are essential. Four or more years of protein biochemistry experience within the pharmaceutical or biotechnology industry are desirable. Most important is an enthusiasm toward applying structural information to the discovery of novel small molecule drugs.

Merck Research Laboratories are located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to: Christine Cantone, Merck & Co., P.O. Box 2000, Ad #141, Rahway, New Jersey 07065, R90-A3, EEO/AA/VH/Employer.
POSITIONS OPEN

MICROBIOLOGIST

Tenure-track position, San Diego State University, for fall 1994. The successful candidate is expected to teachpathobiology in undergraduate and graduate (M.S. and Ph.D.) programs, and develop an independent research program, preferably studying mechanisms, host-parasite interactions, or related areas. Ph.D. or M.D. required. Rank open, but appointment at ASSOCIATE or ASSOCIATE PROFESSOR level is preferred. Send curriculum vitae, representative reprints, a brief description of research interests and teaching philosophy, and names and addresses of three references to: Microbiologist Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-0057 by December 31, 1993. (The application period may remain open until the position is filled.) Ethnically diverse candidates, women, disabled and veterans are particularly encouraged to apply.

MOLECULAR BIOLOGY/ANIMAL PHYSIOLOGY

The Biological Department, Pacific Lutheran University (PLU) invites applications for two tenure-track ASSISTANT PROFESSORS to begin in FALL 1994. The MOLECULAR BIOLOGIST will teach upper-division courses in microbiology and team-teach introductory and advanced courses where molecular biology is a strong component. The ANIMAL PHYSIOLOGIST will teach vertebrate physiology to team-teach in general biology and physiology for non-majors. Ph.D. required. Successful candidates must have a committed teaching load. Research involving undergraduate students is expected. Pacific Lutheran, located in the Puget Sound area, is a liberal arts institution with 3500 students. The Biology Department is housed in a modern science center and includes 12 full-time faculty members. Applicants should send curriculum vitae, transcripts, statements of teaching philosophy and research interests, and three letters of recommendation to: Dr. Angela Alexander, Chair, Department of Biology, Pacific Lutheran University, Tacoma, WA 98447. Review of applications begins 20 December 1993. PLU is an Affirmative Action/Equal Opportunity Employer; applications from minority and women candidates are especially encouraged.

TENURE-TRACK FACULTY POSITION
DEPARTMENT OF PHARMACOLOGY
Baylor College of Medicine (BCM)

The Department of Pharmacology, Baylor College of Medicine, is seeking to fill a tenure-track ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR position. The candidate should have a Ph.D. and/or M.D., postdoctoral experience, and a strong commitment to excellence in teaching and research. Evidence of scientific accomplishment and success in attaining extramural funding are essential. Salary competitive, and based on experience and qualifications. Candidates should send curriculum vitae and a list of three references to: Lynn C. Yeoman, Ph.D., Department of Pharmacology, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. BCM is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION
PHARMACOLOGY AND TOXICOLOGY
THE UNIVERSITY OF MISSISSIPPI MEDICAL CENTER

Applications are invited for a tenure-track position as the ASSISTANT PROFESSOR level in the Department of Pharmacology and Toxicology. Exceptional candidates at higher ranks also will be considered. The position offers competitive start-up funds and access to core equipment. Candidates with research interests in all areas of pharmacology or toxicology will be considered. A Ph.D. or M.D. degree, and postdoctoral training are required. Position responsibilities include development of a strong research program and participation in medical and graduate courses. Successful candidates must submit curriculum vitae, a statement of future research interests and the names of three references to: Dr. Rodney C. Baker, Chair, Search Committee, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216–4505. Closing date for application is January 31, 1994. Equal Opportunity Employer, M/F/D/V.

BEHAVIORAL AND SYSTEMS NEUROSCIENCE

The Center for Behavioral Neuroscience (CBN) of the State University, University Park, PA 16802–3154, invites applications for a faculty opening at the ASSISTANT or ASSOCIATE PROFESSOR level. The Center for Behavioral Neuroscience (CBN) is a newly established facility dedicated to collaborative, multidisciplinary research on the functional organization of the mammalian brain. The position is open to candidates in all areas of research interest. The CBN is interested in candidates whose research interests complement strengths in the Center. Researchers with interests in the functional organization of sensory systems, in functional neuroplasticity or in human neurosciences are particularly encouraged to apply. Successful candidates will be expected to establish independent, funded research programs and participate in the teaching mission of the Center. The Center is currently able to provide facilities and start-up funding. For information and application materials, send a letter of interest to Dr. Robert W. Rezabek, Director, Center for Behavioral Neuroscience, State University, University Park, PA 16802–3154. The position will remain open until filled. Applications with a cover letter, curriculum vitae, statement of research plans, and names of three references are requested. Initial review will begin December 8, 1993, and continue until the position is filled. Equal Opportunity Employer, M/F/D/V.

FACULTY POSITION
IN MICROBIOLOGY
Southern Illinois University at Carbondale

Applications are invited for a tenure-track position in the Department of Microbiology and Immunology. The announcement is for a position at the ASSOCIATE PROFESSOR level. In addition to establishing a strong research program, teaching microbiology at both the graduate and undergraduate levels, and providing service, the successful applicant will be expected to contribute to and be preferred to contribute to the success of a microorganism program. A Ph.D. degree is required and postdoctoral experience is preferred. Salary, research facilities and startup funds will be commensurate with qualifications. Applications will be accepted until December 1, 1993, or until the position is filled. Equal Opportunity Employer, M/F/D/V.

FACULTY POSITIONS
Cornell University Medical College
Department of Pharmacology

Candidates are sought for two tenure-track positions at the level of ASSOCIATE or ASSOCIATE PROFESSOR. Candidates with interests in a wide range of areas related to the discipline of pharmacology will be considered. The responsibilities of this position include development and an active research program and participation in both medical and graduate student teaching programs in the department. Applicants should send curriculum vitae, a summary of proposed research, and should arrange to have letters sent from at least three scientists who can evaluate the candidate's accomplishments. Cornell University Medical College is a part of the New York Hospital-Cornell Medical Center and adjacent to Memorial Sloan-Kettering Cancer Center and Rockefeller University. Applications should be sent to: Dr. L. J. Goldstein, Chairman, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Employment Opportunity/Affirmative Action/E/M/F/D/V.

FACULTY POSITION
DEPARTMENT OF MICROBIOLOGY
MOUNT SINAI SCHOOL OF MEDICINE

An opportunity for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR at this center of medical excellence. We seek highly motivated scientists interested in investigating the molecular biology and genetics of animal viruses and/or viral pathogenesis. Candidates working with DNA or RNA viruses are invited. Please send curriculum vitae, names of references, and a completed application to: Dr. John A. Darzynkiewicz, Chair, Department of Microbiology, Box 1124, Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029–6574. An Equal Opportunity Employer.
The South Florida Water Management District has the following opportunities currently available:

**Aquatic Animal Ecologist** Ref. # SCILS7140

Requires a PhD research scientist to study wetland community structure and dynamics in the Everglades and Florida Bay, collaborating with plant ecologists, biogeochemists, and ecosystems modelers. We prefer an ecologist with a strong publication record and interests in quantifying food-web linkages leading to wading birds, plant/animal interactions, and hydrologic controls on life-history patterns. Technical skills should include a background in experimental design, computer modeling, bioenergetics, or physiological ecology. For additional information, contact Fred Sklar, 407-687-6504.

**Water Quality Modeler** Ref. # SCILS7130

Successful candidate will develop, enhance and interface hydrodynamic and water quality models of Lake Okeechobee to assess management practices (regulation schedules, nutrient load reduction, sediment re-suspension). PE/PhD in Engineering is required, along with four years experience, including hydrodynamic and water quality modeling, and computer programming (FORTRAN and UNIX). A strong publication record and a PhD are desirable. For additional information, contact Al Steinman, 407-687-6500.

**Estuarine Ecologist** Ref. # SCILS7130

Will conduct multi-disciplinary research addressing long range water management plans. Minimum requirements include an MS in Estuarine Ecology or related environmental science and four years experience in estuarine research. Preferred qualifications include a PhD and a publication record demonstrating estuarine ecosystem research in response to anthropogenic environmental areas, especially as it relates to freshwater inflow. For additional information, contact Bob Chamberlain, 407-687-6610.

**Postdoctoral Environmental Scientist/Engineer** Ref. # SCILS7140

This temporary, postdoctoral position within our Everglades Systems Research Division conducts applied research/engineering studies to address environmental resource issues. Possible areas of study include: paleoecology; periphyton, macrophyte, and sediment metabolism, as well as vegetation analysis through aerial photography, hydrology (surface/ground water modeling; macrophytic flow resistance analysis) and atmospheric deposition study.

**Postdoctoral Fish Ecologist** Ref. # SCILS7130

This one-year research opportunity involves environmental impact analysis of the Kissimmee River Restoration Project. The candidate will be responsible for designing and initiating pre-restoration baseline studies on the fish communities of the channelized river and floodplain. This position requires a PhD and a strong background in river and wetland ecology and their associated fish communities, as well as a demonstrated knowledge of relevant sampling methodologies, experimental design, and statistics. Experience in sub-tropical river/floodplain wetland ecosystems is preferred. This position extends from October 1, 1993 through September 30, 1994, with a possible one-year extension. For additional information, contact Lou Toth, 407-687-6615.

**Senior Environmental Scientist** Ref. # SCILS9050

Responsibilities of this position include managing the Lake Okeechobee SWIM Plan and Programs. We require a PhD or MS in a scientific field, four years related experience, and knowledge of freshwater ecology. Must be able to conduct effective public presentations, manage multi-disciplinary water management projects, and address complex environmental issues associated with long-range water management plans.

Candidates selected to interview will be required to give a research seminar as part of the interview process.

We offer competitive salaries, a comprehensive and flexible benefits program (benefits are not available to temporary, postdoctoral positions), and a diverse and supportive non-smoking, harassment-free environment. Our South Florida location offers exceptional social and economic/tax advantages. Pre-employment drug screening is required. All inquiries must include your social security number and ad reference code. Send resumes, with three references, to: South Florida Water Management District, Attn: Human Resources Division, 3301 Gun Club Road, West Palm Beach, FL 33416-4680.

**South Florida Water Management District**

The SFWMD is committed to an environment enriched by diversity. We encourage inquiry from all applicants. EOE M/F/D/V
MOREHOUSE SCHOOL OF MEDICINE
ANNOUNCES
AN
INNOVATIVE MULTIDISCIPLINARY GRADUATION PROGRAM
LEADING TO
THE DOCTOR OF PHILOSOPHY DEGREE
IN
BIOMEDICAL SCIENCES

This predoctoral program has been accredited by the Southern Association of Colleges and Schools. Program support in the form of Graduate fellowships range from $12,000 - $15,000. Interdisciplinary M.D./Ph.D. programs are available to selected students (prospective candidates must first be accepted by the Medical School).

MSM has developed a number of state-of-the-art core research facilities to support its interdisciplinary research programs in Neuroscience * Molecular Biology * Physiology/Endocrinology * Microbiology/Immunology * Pharmacology/Toxicology * Cell Biology/Biochemistry.

MSM basic science and clinical faculty currently have more than $20,000,000 in extramural funding supporting these research programs. A limited number of postdoctoral positions are immediately available in some of the research areas listed above.

For additional information, contact:
David E. Potter, Ph.D.
Chairman, Department of Pharmacology/Toxicology
Morehouse School of Medicine
720 Westview Dr., SW
Atlanta, Georgia 30310-1495
(404) 752-1708/752-1757
FAX 752-8443/756-8675

CORNELL UNIVERSITY
GRADUATE SCHOOL OF MEDICAL SCIENCES
announces an
INTERDISCIPLINARY PROGRAM OF GRADUATE STUDY
in
MOLECULAR AND CELLULAR BIOLOGY

The Graduate School of Medical Sciences, composed of faculty drawn from Cornell University Medical College and The Sloan-Kettering Institute, has established a training program in Molecular and Cellular Biology leading to the Ph.D. degree. Successful applicants will be awarded full graduate fellowships covering living expenses and tuition. Low-cost university housing is provided for all students. Fellows will be admitted “at large” and will participate in a core curriculum of courses and laboratory rotations. These activities will expose the student to the many research opportunities at the participating institutions and eventually lead to his or her affiliation with one of the seven fields of study in the Graduate School of Medical Sciences. These are: Biochemistry and Structural Biology, Cell Biology and Genetics, Immunology, Molecular Biology, Neuroscience, Pharmacology, and Physiology and Biophysics.

The Cornell University Graduate School of Medical Sciences constitutes the New York City Campus of Cornell University at Ithaca, New York. It is part of a large biomedical research complex extending along York Avenue on Manhattan’s East Side, including Cornell University Medical College-New York Hospital, The Memorial-Sloan Kettering Cancer Center, The Hospital for Special Surgery, and The Rockefeller University. The Cornell University Graduate School of Medical Sciences is committed to the successful recruitment and training of qualified women and members of underrepresented minority groups, including, but not limited to, African Americans, Alaskan Natives, American Indians, Hispanic Americans, and Pacific Islanders. Cornell University is an Equal Opportunity/Affirmative Action Employer. To receive additional information and an application kit, call or write to:
Cornell University Graduate School of Medical Sciences
1300 York Avenue
New York, NY 10021
tel: 212-746-8965
fax: 212-746-8906
The Charles A. Dana Foundation is pleased to announce the 1993 winners of the Charles A. Dana Awards for Pioneering Achievements in Health:

Anders Björklund, M.D., and Fred H. Gage, Ph.D., for pioneering methods of transplanting and genetically engineering cells that can repair and replace damaged neurons

Larry R. Squire, Ph.D., for research demonstrating the biological reality of the brain’s multiple systems for learning and memory

The $50,000 Award honors discoveries in neuroscience that will lead or have already led to significant advances in the diagnosis, prevention, or treatment of human health problems.

Nominations for the 1994 Awards are now solicited from the neuroscience community; the deadline for submission of nominations is February 1, 1994. Information and application packets can be obtained from The Charles A. Dana Awards for Pioneering Achievements in Health, Nominating Committee—Box S, c/o Joan McCarthy-Griffin, Biology Department, Brandeis University, Waltham, MA 02254; telephone (617) 736-3140, fax (617) 736-3142.

The Center for Computational Sciences (CCS) at the Oak Ridge National Laboratory (ORNL), a recognized leader in multidisciplinary research and development, is seeking a Computational Scientist for the development and implementation of computational methods on massively parallel computer architectures to help solve environmental problems of critical importance to industry. The position is part of a multidisciplinary team of national laboratory and university collaborators working on the “Grand Challenges” related to environmental areas such as groundwater remediation and global change.

The successful applicant will be able to work with scientists, programmers, and vendors to create effective implementations of existing codes on state-of-the-art parallel supercomputers employing new hardware and software. Where existing codes are inadequate, the researcher will be encouraged to develop innovative algorithms and software tools to simulate environmental systems. The CCS currently houses a Kendall Square Research computer and two Intel Paragons.

The position requires a PhD (or MS and equivalent combination of education and experience) in a quantitative science (computer science, math, engineering, physics, hydrology, or geochemistry). Application programming experience on massively parallel processors and FORTRAN programming proficiency are required. Familiarity with C and UNIX or OSF/1 based computers is desired, along with experience in development and use of visualization software and spatial analysis. Demonstrated interpersonal skills, oral and written communication skills and strong personal motivation are essential.

ORNL is a multi-purpose research facility managed by Martin Marietta Energy Systems for the US Department of Energy. ORNL offers a competitive compensation and benefits package, including relocation. For immediate consideration, send your resume to: J.K. Johnson, Oak Ridge National Laboratory, Dept. S, P.O. Box 2008, Oak Ridge, TN 37831-6216.

ORNL is an equal opportunity employer committed to building and maintaining a diverse workforce.
POSITIONS OPEN

CELL BIOLOGIST—ASSISTANT PROFESSOR
The Biomedical Laboratory and William Smith Colleges invites applications for a tenure-track position starting July 1994, pending final approval. Individuals with experience in eukaryotic cell biology are encouraged to apply. Research in the teaching laboratory should be in cell biology, participating in a physiology course and an introductory biology course, and contributing to the College’s general curriculum. In Spring 1994, the candidate is expected to demonstrate excellence in teaching and implement a research program that involves undergraduates. Candidates must have the Ph.D. degree by the starting date. Hobart College for men and William Smith College for women are coeducational institutions that share a campus on Seneca Lake in upstate New York. The Biology Department has just received a $1.2 million grant to build a new biology complex.

EVOLUTIONARY BIOLOGIST: The Department of Cell, Molecular and Structural Biology, Northwestern University Medical School, announces a tenure-track position at the ASSISTANT PROFESSOR level. We are particularly interested in individuals who apply molecular, genetic, developmental, functional, or phylogenetic approaches to understand vertebrate and invertebrate structure and its evolutionary context. The Department is composed of a large and diverse group of researchers working on aspects of modern structural, molecular, cell, developmental, and evolutionary biology. Applicants must be in a position to assist in the teaching of human gross anatomy and participate in the Program in Evolutionary Biology in the Integrated Graduate Program in the Life Sciences. Please send curriculum vitae, statement of research interests, names of references, and representational publications by January 31, 1994, to: Marian Dugan, CMB Biology, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals. Applications from women and minorities are especially sought.

AQUACULTURE RESEARCH/EXTENSION POSITION. Tenure-track, 12-month, ASSISTANT PROFESSOR. Ph.D. required. 70 percent research, 30 percent extension. Develop an integrated aquaculture education and extension program relevant to warm water aquaculture in the Mid-Atlantic region. Interdisciplinary background required for cooperative work with producers, extension agents, agronomists, water quality specialists, and the academic and applied science community. Experience in production preferred. Located at Research and Extension Center, Plymouth, North Carolina, 130 miles east of Raleigh, the position would begin December 1, 1993, or until filled. Minorities encouraged. Send résumé, career plans, and three letters of reference to: Dr. Richard L. Noble, Chair, Search Committee, Department of Zoology, North Carolina State University, Campus Box 7646, Raleigh, NC 27695. NCSU is an Equal Opportunity/Affirmative Action Employer.

ANIMAL PHYSIOLOGIST
Tenure-track ASSISTANT PROFESSOR, fall 1994, to teach undergraduate and graduate (M.S.) physiology courses in Human Physiology and Anatomy, General Physiology, and one or two specialty courses in physiology, such as Neurophysiology. Expectations include development of a strong student-oriented research program; obtaining independent funding for research and publication in M.S. Program, and student advising and mentoring. Ph.D. required; university teaching and postdoctoral experience preferred. The Department seeks to create a stimulating and relevant academic environment for its students by recruiting high-caliber faculty. To direct research in physiology, the teaching assignment will be in Physiology and Anatomy. Individuals are encouraged to propose research that will attract students in degrees not traditionally in physiology. The College is especially interested in qualified minorities and women.

POSITIONS OPEN

MOLECULAR GENETICIST
The Department of Biological Sciences invites applications for a tenure-track position at the rank of ASSOCIATE or full PROFESSOR beginning fall 1994. Ph.D. in biological sciences required, postdoctoral experience desirable. Candidates should have a commitment to excellence in teaching and demonstrate an accomplished, or show great promise of an accomplished, research program. Current research interests include molecular biology and biochemistry. The Department of Biological Sciences is a major research-oriented university. Initial appointment will be for 3 years with full time benefits. Applicants should submit curriculum vitae, statement of teaching and research interests, names of and letters from three references, and two sets of publications. Applications should be received by January 31, 1994. Salary competitive. The University is an Equal Opportunity/Affirmative Action Employer, and encourages applications from women and minorities.

ASSISTANT RESEARCH PROFESSOR MOLECULAR ENDOCRINOLOGY
The Diabetes and Metabolic Diseases Research Program at Stony Brook invites applications for an Assistant Research Professorship within the Program available in the fall of 1994. The position is expected to have Ph.D. or equivalent degree and postdoctoral experience related to the field of Molecular Endocrinology. Prior experience in the field of Developmental Biology, especially involving the use of G-protein-linked receptor-effector systems will be given preference. Women and minority groups are encouraged to apply. Salary commensurate with experience. Applications will be accepted until the position is filled. Please send letter of application and names of three references to: Dr. Joel A. Freeman, Chair, Department of Biological Sciences, Stony Brook University, Stony Brook, NY 11794-8651. An Equal Opportunity/Affirmative Action Employer.

REMOTE SENSING ASSISTANT PROFESSOR
The University of Wyoming invites applications for a tenure-track, 9-month position beginning September 1994 in terrestrial remote sensing and image processing. The appointment will be made either, or jointly, in the Departments of Biological and Physical Sciences, and in the Center for Remote Sensing. The position is expected to develop a research program in remote sensing and to teach undergraduate and graduate level courses in the discipline. Applicants should have a Ph.D. in remote sensing or a closely related discipline. Overseas experience in remote sensing is preferred, but not required. The position carries a full teaching load and is available August 1994. Please submit curriculum vitae, statement of research interests, a brief statement of teaching interests, and three letters of reference by the closing date of January 31, 1994, to: Dr. C. M. Malbon, Director, CEERE, 3100 Agriculture Science Center, University of Wyoming, Laramie, WY 82071. An Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST
Tenure-track ASSISTANT PROFESSOR at Kenyon College for an animal or cell physiologist. Teaching duties include animal physiology, introductory biology, general physiology, and cell physiology. Research opportunities are available in neuroscience and endocrinology. The position is a research/teaching position at the Assistant Professor level. A Ph.D. degree is required, with a strong commitment to research and teaching excellence. A record of peer-reviewed publications and/or presentations is desirable. Applications should include a letter of application, curriculum vitae, and names and addresses of three references. Review of applications will begin January 10, 1994. An Equal Opportunity Employer, Kenyon College does not discriminate on the basis of race, color, creed, sex, national origin, sexual orientation, age, disability, or veteran status. It affirms its commitment to diversity; therefore, applications from women and minorities are especially encouraged.

BIOLOGIST—FOUNDER AND DIRECTOR
The Biology Department, University of Minnesota, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to begin July 1, 1994, subject to budgetary approval. We are particularly interested in applicants who demonstrate an interest in teaching and research in the areas of basic or applied genetics approaches to cell and developmental problems. The Department of Zoology has traditional strengths in Animal Physiology (structural, functional, evolutionary), Ecology, Evolution, and Animal Physiology, which provide a stimulus for interdisciplinary investigations. We have excellent research facilities. The successful candidate is expected to develop an internationally recognized research program and to teach at the undergraduate and graduate level. Applicants with a Ph.D. and postdoctoral experience in a relevant field should send curriculum vitae and a one-page statement of future research plans, and arrange for three letters of reference to be sent directly to: Dr. W. R. Jones, Department of Zoology, University of Minnesota, Minneapolis, MN 55455.

POSITIONS OPEN

BIOLOGIST—ASSOCIATE PROFESSOR
The faculty of Hobart and William Smith Colleges invites applications for a tenure-track position at the ASSOCIATE PROFESSOR level to begin July 1, 1994, subject to budgetary approval. We are particularly interested in applicants who demonstrate an interest in teaching and research in the areas of basic or applied genetics approaches to cell and developmental problems. The Department of Zoology has traditional strengths in Animal Physiology (structural, functional, evolutionary), Ecology, Evolution, and Animal Physiology, which provide a stimulus for interdisciplinary investigations. We have excellent research facilities. The successful candidate is expected to develop an internationally recognized research program and to teach at the undergraduate and graduate level. Applicants with a Ph.D. and postdoctoral experience in a relevant field should send curriculum vitae and a one-page statement of future research plans, and arrange for three letters of reference to be sent directly to: Dr. W. R. Jones, Department of Zoology, University of Minnesota, Minneapolis, MN 55455.

VERTEBRATE PHYSIOLOGIST
The Department of Biology at New Mexico State University is seeking a full-time, tenure-track ASSISTANT PROFESSOR for fall 1994. Applicants should have postdoctoral experience and take an integrative approach to vertebrate physiology. The successful candidate will seek external funding to develop a vigorous research program and will teach at the undergraduate and graduate level. He or she should be able to participate in the Molecular Biology M.S./Ph.D. Program and in the NIH-sponsored Minority Access to Research Careers and Minority Biotechnology Education Programs. The Department has excellent facilities for electron microscopy. Degrees offered include the B.A., B.S., M.S., and Ph.D. in biology, and the B.S. in microbiology. Submit curriculum vitae, statement of research and teaching interests; and the names, addresses, and telephone numbers of at least three references to: Dr. V. Gutchess, Department of Biology, NMSU, Las Cruces, NM 88003. Closing date is four weeks after advertisement appears. NMSU is an Affirmative Action/EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER. Women and minority candidates are strongly encouraged to apply.

PHYSIOLOGIST
The Department of Biology, University of Nebraska-Lincoln, invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. We are seeking a Plant Physiologist with strong research interests in the areas of photosynthesis and environmental physiology. The successful candidate will have a Ph.D., will teach undergraduate and graduate (M.S.- and Ph.D.-level) courses in his/her area of expertise. The candidate must also develop a vigorous, externally funded research program. Send a letter of application, including a statement of research and teaching interests, curriculum vitae, and names of at least three references to: Dr. R. F. Moore, Search Committee, Department of Biological Sciences, University of Southern Mississippi, Hattiesburg, MS 39406-5018. Review of applications will begin December 13, 1993. The University of Southern Mississippi is an Equal Opportunity/Affirmative Action Employer.

RESEARCH DIRECTOR
Midwestern specialty agricultural chemical firm seeks an executive-level Research Director to head its 85-member Technical Department. This person will report directly to the President and be responsible for directing all research, quality assurance and government regulatory efforts. The successful candidate will thrive in a sales-driven environment. Excellent communication skills and Ph.D. in Biochemistry, experience in microbiology, analytical chemistry and organic chemistry required. Please send resume and salary history to: Ms. Pam Hines, Fraenkel & Associates, 6923 Vista Drive, West Des Moines, IA 50266. Physical with drug test required.
**Postdoctoral Research at The Wistar Institute**

The Wistar Institute is seeking Postdoctoral applicants interested in Molecular Genetics, Molecular Virology, Cell & Developmental Biology, Cell & Molecular Immunology, and Structural Biology. Fellows can anticipate a stimulating and challenging experience in an environment characterized by strong, interdisciplinary collaboration and state-of-the-art biotechnology.

Wistar is an independent, non-profit biomedical research institution with close collaborative relationships with the University of Pennsylvania and other major research and clinical organizations within the Philadelphia region. The Wistar Institute is an NIH-designated Basic Cancer Research Center.

For more information, contact: Coordinator of Research Training, THE WISTAR INSTITUTE, 3601 Spruce Street, Philadelphia, PA 19104. Interested Postdoctoral applicants are requested to send a Curriculum Vitae and the names of three (3) references. EOE, M/F/D/V. Minority candidates are strongly encouraged to apply.

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**ASSISTANT PROFESSOR MICROBIOLOGY**

The Department of Microbiology at the University of Illinois at Urbana-Champaign seeks candidates for a full-time tenure track position at the Assistant Professor level. Applicants should have a Ph.D. degree, postdoctoral experience, and show exceptional promise in developing an active research program in Microbiology. Preference will be given to applicants with research interests in the physiology, biochemistry, or molecular genetics of microorganisms that further expand the Department's breadth of microbial diversity. Responsibilities include teaching undergraduate and graduate students. Starting date August 1994. Salary will be commensurate with experience. The Department of Microbiology offers a supportive and collegial atmosphere and a strong graduate program. There are extensive interdepartmental interactions in microbial and eukaryotic cell and molecular biology, immunology, developmental biology, evolution, biochemistry, and biophysics. The University of Illinois at Urbana-Champaign offers an outstanding and exciting academic research environment including a Biotechnology Center and state-of-the-art facilities for hybridoma production, flow cytometry, electron microscopy, X-ray crystallography, and computer analyses. Applicants should submit a curriculum vitae, a description of research interests and future plans, and have at least three letters of reference sent to:

Stanley Maloy, Chair
Faculty Search Committee
Department of Microbiology
University of Illinois
131 Burrill Hall
407 S. Goodwin Avenue
Urbana, IL 61801
Telephone: (217) 333-1796
FAX: (217) 333-1901

To ensure full consideration, applications should be received by December 15, 1993. Interviews may be conducted before the closing date, but no final decision will be made before that time.

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

The California Coastal Commission seeks a scientist for a long-term marine resource mitigation program consisting primarily of a 150-acre wetland restoration project and a 300-acre artificial reef project. Mitigation monitoring will continue for approximately 30 years. The position will be located in San Francisco at the Coastal Commission’s headquarters.

The ecologist will evaluate designs for the mitigation projects, monitor their performance, and evaluate their effectiveness. Together with other project ecologists and consultants, the successful candidate will coordinate and oversee the scientific program. Duties include designing a long-term sampling program to determine whether the mitigation projects meet specific performance standards, evaluating contractor reports, and providing advice on scientific issues. The ecologist will work closely with Coastal Commission staff and a scientific advisory panel to achieve the project’s objectives.

Candidates must have a doctorate in ecology or a related field and postdoctoral or other professional experience. Preference will be given to candidates with a strong scientific background, good quantitative and writing skills, demonstrated project management abilities, and the ability to work productively on an interdisciplinary team.

Competitive salary, commensurate with experience, and excellent benefits. Submit curriculum vitae, selected reprints, and three letters of reference to: Chris Parry, California Coastal Commission, 45 Fremont Street, Suite 2000, San Francisco, CA 94105-2219. Please include fax numbers and e-mail addresses, if possible. Deadline for applications is January 7, 1994.

Women and minorities are strongly encouraged to apply for this unique opportunity.

JEFFERSON CANCER INSTITUTE

Ph. D. Training and Postdoctoral Opportunities


Training Program in Molecular Cell Biology of Cancer: Provides training focused on signal transduction associated with normal and aberrant growth control, on the molecular mechanisms of intracellular and intercellular transport as modalities for therapeutic intervention, and on cell-cell interactions and their role in metastasis and malignancy. J. Keen, Ph.D.; R. Baserga, M.D.; J. Benovic, Ph.D.; G. Litwack, Ph.D.; S. Rittenhouse, Ph.D.; D. E. Wickstrom, Ph.D., and others.

Training Program in Hematopoietic and Vascular Cell Functions: Provides foundation in field of hematopoietic and vascular cell function while directing interest toward larger area of altered cell function, including non-neoplastic as well as non-neoplastic disorders. B. Calabretta, M.D., Ph.D.; R. Baserga, M.D.; J. Carlo, M.D.; C. Croce, M.D.; B. Perussia, M.D.; S. Rittenhouse, Ph.D.; S. Shapiro, M.D., and others.

Support for programs require USA citizenship or Permanent Residence. We are an Equal Opportunity Employer. For further information contact: Ms. Joanne Balitzky, Jefferson Center Institute, 233 S. 10th St., Rm. 910 BLSB, Phila., PA 19107-5541, FAX 215-923-1098.

SEVENTH ANNUAL

COMPLEX SYSTEMS SUMMER SCHOOL

JUNE 5-JULY 2, 1994 IN SANTA FE, NEW MEXICO

For graduate students and postdoctoral fellows, an intensive introduction to "complex" behavior in mathematical, physical and living systems. Topics include stochastic cellular automata, scaling and criticality, stochastic models of ecosystems, neural networks, adaptation, and learning in societies. Interactive format encourages group and individual research projects. Computer laboratory. Tuition support. Women and minorities are encouraged to apply.

Co-Directors:

Lynn Nadel, Psychology, University of Arizona
Daniel Stein, Physics, University of Arizona

U.S. Applicants: Further information from:
Andi Sutherland, Santa Fe Institute
1660 Old Pecos Trail, Ste. A, Santa Fe, NM 87501
505-899-7372; fax 505-982-0565
e-mail: summerschool@santafe.edu

Foreign Applicants: Provide a current resume (including bibliography) along with a statement of your current research interests and comments about why you want to attend the School. Have two scientists who know your work write letters recommending you for this program. Send material to above address. Include your e-mail address and/or fax number. No funds available for travel.

Application Deadline: FEBRUARY 1, 1994. Applications incomplete at this time will not be considered.

HISTORIAN OF SCIENCE

The Science Division at Northeast Missouri State University offers a tenure-track position at the Assistant Professor level starting August 1994. Teaching responsibilities include an undergraduate course, Science and Intellectual History, and development of undergraduate/graduate courses in the History and Philosophy of Science that meet the needs of the Physics, Chemistry, Biology, and History and Culture disciplines. Teaching and research are mutually supportive activities at NMSU. A strong commitment to both teaching and the development of a research program involving undergraduates and M.S. students is encouraged and expected. The successful candidate will have a role in helping the Science faculty include historical, sociological, and philosophical information in their courses. In addition, the successful candidate will be expected to be actively involved in one of the four disciplines in the Division.

The mission of Northeast Missouri State University, the state's public Liberal Arts and Sciences University, is to provide an outstanding education to an academically-talented student body while remaining economically accessible. Northeast is committed to challenging and supporting students in their learning, and encourages the use of active learning methodologies in the classroom, in advising sessions, and in collaborative research with the students.

Candidates should possess a Ph.D. Women, minorities, the disabled, and veterans are particularly encouraged to apply as NMSU seeks to culturally broaden and diversify both faculty and student bodies. Complete applications including a cover letter, curriculum vitae, statements of teaching philosophy and research goals, under-graduate and graduate transcripts, and three letters of reference, should be sent to Dr. James Shady, Historian of Science Search Committee, Division of Science, Northeast Missouri State University, Kirksville, MO 63501 (816-785-4897). Completed applications will be reviewed beginning 30 December 1993.

Associate Editor

The Proceedings Office of the National Academy of Sciences is seeking an associate editor for staff of a multidisciplinary semimonthly scientific journal. Position requires a Ph.D. or equivalent in a biological or physical science or a related field, and at least 5 years of related experience. Excellent English skills required; some editorial experience desirable. Please send letter of application and curriculum vitae in confidence to: NRC/PNAS, 1010-530 (FZ), 2101 Constitution Avenue, NW, Washington, DC 20418. EOE. Non-smoking work environment.
At Sandoz Pharmaceuticals Corporation, research is the tool by which we gain the knowledge needed to improve the lives of thousands across the country and around the world. That is why we have committed substantial resources to expanding our Research Institute and its state-of-the-art technologies. Our developments are the result of research conducted by professionals who specialize in many different fields.

**Associate Fellow**
**Cell Adhesion Biology**
The Cell Receptors and Mediators research group has an opening for a Cell Adhesion Biologist with a strong background in immunology or inflammation. Experience with integrin or selectin biochemistry/cell biology, cell-matrix interactions and modeling inflammation in vitro and in vivo as well as a background in leukocyte endothelial cell adhesion and transmigration are required. Experience with animal models of inflammation and immunity is a strong asset.

A Ph.D. or equivalent in a relevant life science field and at least two years of postdoctoral experience are required. Expertise and accomplishments in the area of cellular inflammation/immunity should be demonstrated by a strong publication record.

**Position #2779.**

**Senior Scientist**
**Atherosclerosis and Lipoprotein Metabolism**
The Atherosclerosis and Vascular Biology research group is seeking a Senior Scientist to conduct biochemical and molecular biological studies to develop and implement compound discovery screens in collaboration with other scientists in the lipoprotein and atherosclerosis discovery programs. The successful candidate will provide analytical support to the in vivo modeling group, formulate and evaluate future research opportunities as an active scientific leader and provide a role-model for junior scientists.

A BS/MS in the Life Sciences and extensive hands-on experience with biochemical and molecular biological techniques and assay development are required. Working knowledge of immunoassay development and microplate robotics is desirable. This position requires strong data analysis and presentation skills as well as a flexible and dynamic approach to research problems. **Position #2665DJ.**

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey. For consideration, please refer to the position number of interest and forward your curriculum vitae and the names and addresses of three references to:

**SANDOZ PHARMACEUTICALS CORP**
SRI Human Resources
Building 122/1
East Hanover, NJ 07936

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**SANDOZ**
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GRADUATE STUDIES at the UNIVERSITY OF PUERTO RICO MEDICAL SCIENCE CAMPUS SCHOOL OF MEDICINE

Inquiries and/or applications are invited from individuals who are interested in entering a program of study leading to MS or PhD in the following areas:

ANATOMY
BIOCHEMISTRY
MICROBIOLOGY AND MEDICAL ZOOLOGY
PHARMACOLOGY
PHYSIOLOGY

Research facilities are located in the Medical Sciences Campus buildings, with ancillary facilities in the Institute of Neurobiology, the Caribbean Primate Research Center, the Veterans Administration Hospital, the University Hospital, and affiliated hospitals. A central library serves the general needs of the academic community, and there are linkages with other local and national libraries. A system of core laboratories includes facilities for electron microscopy, image analysis, flow cytometry, protein sequencing, tissue culture, DNA synthesis and molecular biology.

Financial support, especially for minority students, is available through institutional funds, NIH-RCMI, NIH-EBRS, NIH-MIDRP, MARC and the Fogarty International Center.

The deadlines for applications are February 15 (Fall semester) and September 15 (Spring semester).

Inquiries should be addressed to:
Luis José Torres-Bauzá, Ph.D.
Associate Dean
Biomedical Sciences and
Director of Graduate Studies
University of Puerto Rico
Medical Sciences Campus
School of Medicine
GPO Box 365067
San Juan, Puerto Rico 00936-5067

POSTDOCTORAL POSITIONS

The Gladstone Institute of Cardiovascular Disease, University of California, San Francisco. Available immediately in the labs of:
Robert W. Mahley, M.D., Ph.D.: 2 positions: 1) Study the development of transgenic mouse models of type III hyperlipoproteinemia and examine effects of expression of apo E mutants on lipid metabolism and atherosclerosis. Experience in lipid metabolism required. 2) Study the role of apo E in neurodegenerative disease. A combination of in vitro and in vivo techniques, using transgenic animals expressing different apo-E isoforms, will be used to assess the role of the apo-E isoforms in Alzheimer's disease and other neurodegenerative disorders. Experience in neurobiology required.

Israel F. Chao, M.D., Ph.D.: Research on the molecular biology of monocyte-endothelial cell interactions in the vasculature. Current projects are focused on receptors for the rapidly emerging family of cytokines known as the chemokines. Methodology includes receptor mutagenesis and expression in Xenopus oocytes and mammalian cells.


Stephen G. Young, M.D.: 2 positions: Research on the structure and function of apolipoprotein B (apoB). Characterization of recently developed transgenic mice expressing large amounts of human apo B, generation of mice with targeted mutations in the apo B gene, and investigation of the molecular mechanism of hypobetalipoproteinemia. Experience with transgenic mice and/or molecular biology techniques is desirable.

Thomas L. Innerarity, Ph.D.: Study the mechanism and physiology of apo B RNA editing and investigate mutations of apo B 100 that disrupt LDL binding to the LDL receptor.

Candidates should possess an M.D. or Ph.D. in molecular biology or biochemistry. Competitive salary and benefits. Send C.V. and names of three references to: Postdoctoral Recruitment; Gladstone Institute of Cardiovascular Disease, UCSF; P.O. Box 419100; SF, CA 94141-9100. EOE.

THE UNIVERSITY OF TEXAS invites nominations and applications for the position of DEAN OF THE COLLEGE OF NATURAL SCIENCES

The College of Natural Sciences is the second largest of the 14 colleges and schools that comprise The University, with approximately 382 tenured and tenure-track faculty, 6,500 undergraduate majors, 1,695 graduate students, an academic budget of nearly $34 million, federal grants and research contracts totaling over $40 million annually and $35 million in endowments. The College includes 12 academic units and 32 organized research units and has a dual mission of excellence in teaching and research. The Dean is the chief executive officer of the College and is expected to provide vision and leadership in both of these areas as well as to administer the varied academic and research programs in the College, to manage the budget, and to engage in fund raising in the private sector. The Dean reports to the President of the University.

We are looking for a congenial, dynamic leader with demonstrated outstanding abilities in research, teaching administration, service to the community, and communication with the private sector. The candidate must qualify for appointment to the rank of Professor with tenure in a department of the College. Applications and nominations will be accepted until January 15, 1994; after this date the Committee may re-consider credentials from candidates nominated by responsible sources. Nominations and applications should be accompanied by a letter discussing relevant experience and accomplishments, a curriculum vitae, and the names of four references. These materials should be sent to:
Professor M.A. Rankin, Co-chairperson
Consultative Committee for the Selection of the Dean of Natural Sciences
Division of Biological Sciences
The University of Texas
Austin, Texas 78712

The University of Texas at Austin is an affirmative action, equal opportunity employer.

MEDICAL COLLEGE OF PENNSYLVANIA

The Department of Anatomy and Neurobiology at the Medical College of Pennsylvania has a strong research focus on developmental neurobiology, synaptic transmission and plasticity, regeneration and mechanisms of recovery from CNS injury. The Department's funding includes, in addition to individual grants, two Program Project Grants, (one held jointly with the Pharmacology Dept.) and a training grant. One Program Project Grant on Mechanisms of Recovery of Function after Spinal Cord Injury includes projects on recovery of locomotor function mediated by transplanted fetal tissue, compensatory responses to spinal injury, physiological studies of central and peripheral regeneration and cell and molecular mechanisms underlying axonal regeneration. The Program Project Grant on The Effects of Prenatal Cocaine Exposure includes studies on structural, functional, biochemical and behavioral changes induced by chronic cocaine administration. The training grant on The Neurobiology of Development and Regeneration supports pre- and postdoctoral fellows. Training in this highly interactive environment is available in gene cloning and sequencing, transplantation techniques, tissue culture, cell motility, microscopy and imaging, behavioral neurobiology, intracellular recording, patch clamping, and neuropharmacology. Faculty include Drs. D. S. Faber, D. Baird, T. J. Cunningham, I. Fischer, J. Harvey, R. Levine, L. Lillien, E. H. Murphy, M. Murray, M. Nowycky, M. Pinter, and A. Tessler. The Department of Anatomy and Neurobiology encourages applications by qualified minority students. For further information write to Dr. E. Hazel M.D., Dr. Michael Murray, Department of Anatomy and Neurobiology, Medical College of Pennsylvania, Philadelphia, Pa., 19129.
NEW HORIZONS IN DRUG DISCOVERY

Antifungal Research

The focus of this position will be the discovery and preclinical development of plant-derived compounds with antifungal activity. You will apply your knowledge of fungal biology and state-of-the-art antifungal assay methods to the discovery of novel therapeutic mechanisms and to the development of innovative high-throughput assay systems. You will also play a major role in the selection of lead candidates for human clinical trials. Requires a Ph.D. and postdoctoral training with a minimum of 2-4 years industrial or academic antifungal research experience. Respond to position A1118.

Antiviral Research

This position will be responsible for the development of assay methods to test plant-derived compounds with antiviral activity. You will apply your knowledge of viral biology and high-throughput viral growth assays and the discovery of novel antiviral mechanisms. You will also play a major role in the selection of lead candidates for human clinical trials. Requires a Ph.D. and postdoctoral training with experience in antiviral research. Additional research experience is helpful but not required. Respond to position A140.

Phytera, Inc. is located in the Worcester, MA Biotech Park adjacent to the UMass Medical Center, and within convenient driving distance to the major university and cultural institutions in Boston. We have additional research and development facilities located in Sheffield, U.K. We offer a competitive compensation package and the opportunity to contribute to the realization of exciting new technologies in a high spirited, team-oriented environment. Please forward your curriculum vitae, specifying the position code, to: Ms. Hilary Clayton, Human Resources, Phytera, Inc., One Innovation Drive, Worcester, MA 01605. No phone calls, please. An equal opportunity employer.

EVOLUTIONARY PRIMATOLOGY

(3) POSTDOCTORAL POSITION; (6) GRADUATE FELLOWSHIPS

NYCPR, The New York Consortium in Evolutionary Primatology, is a graduate training program in all aspects of the behavioral and evolutionary biology of primates, funded by an NSF Research Training Grant. The faculty includes 28 researchers drawn from the City University of New York (CUNY), Columbia University (Vinette and NYU), the American Museum of Natural History, and NYSC the Wildlife Conservation Society (WCS). The faculty includes 28 researchers drawn from the City University of New York (CUNY), Columbia University (Vinette and NYU), the American Museum of Natural History, and NYSC the Wildlife Conservation Society (WCS). NYCEP and student research focuses on nonhuman primates from the perspectives of comparative morphology, paleontology and systematic biology, molecular and population genetics, behavior and ecology, and conservation biology. NYCEP is now seeking applications for three one-year postdoctoral positions (at CUNY, NYU & WCS) to begin July 1, 1994 and for at least six graduate student fellowships distributed among the three participating universities. NSF requirements limit eligibility to U.S. citizens, nationals and permanent residents.

Postdoctoral applications should include a full curriculum vitae, a statement of their research interests and plans for the time they would be at NYCEP, and three names and addresses of individuals who may provide a reference statement. Deadline for applications is March 15, 1994.

NYCEP and its component institutions are Equal Opportunity/Affirmative Action Employers.

All applications are due January 5, 1994.
POSITIONS OPEN

ASSISTANT PROFESSOR—PHYSICAL CHEMISTRY—AMHERST COLLEGE. A full-time tenure-track faculty position is available for a Ph.D. experimental physical chemist beginning in July 1994. The successful candidate will be expected to teach introductory chemistry as well as physical chemistry at the advanced undergraduate level, and will be encouraged to participate in interdisciplinary teaching. She/he will also be expected to establish a vigorous research program in which undergraduates can substantially participate. The research program can be drawn from any area of experimental physical chemistry, as well as from fields that span the boundaries between physical chemistry and other sciences. Amherst College, a private coeducational liberal arts college of some 1,570 students and 165 faculty located in the Connecticut River Valley of western Massachusetts, participates in Hampshire College, Mount Holyoke, and Smith Colleges, and the University of Massachusetts, in the Five-College Consortium. Applicants should submit detailed curriculum vitae and a description of their teaching and research plans, and should arrange for the forwarding of three letters of reference, all to: Dr. J. N. Rushk, Chairman, Department of Chemistry, Amherst, MA 01002, by January 1, 1994. Amherst College is an Affirmative Action/Equal Opportunity Employer and especially welcomes applications from women, minority and disabled candidates.

ANALYTICAL CHEMISTRY—ASSISTANT PROFESSOR— TENURE-TRACK—SEPTEMBER 1, 1994. Teach general chemistry and analytical chemistry. The applicant’s potential as a teacher and researcher for an undergraduate program is expected. Preference will be given to individuals with research and resultant publication in refereed journals. Application deadline is December 15, 1993. Midwestern State University is a liberal arts university with an enrollment of 5,800 students. The Chemistry Department is ACS-certified, offering the B.S. in chemistry and in environmental chemical technology. Submit curriculum vitae, description of proposed research, a statement of educational philosophy and three letters of recommendation to: Dr. Norman Horner, Director of Selection of Science Majors, Midwestern State University, P.O. Box 4400, 1410 Taft Boulevard, Wichita Falls, TX 76308-2099, Equal Opportunity/Affirmative Action Employer.

ASSOCIATE DEAN FOR RESEARCH AND TECHNOLOGY—GRAYBEY ED STAVES—AUGUST 1, 1994. The Auburn University College of Veterinary Medicine invites applications of a distinguished record of achievement in veterinary or biomedical research and substantial experience in graduate education. Veterinary and biomedical research experience is preferred. Application deadline is January 1, 1994, or until the position is filled. Please direct inquiries or submission of curriculum vitae to: names of 5 references to: L. G. Wolfe, Chair of Search Committee, College of Veterinary Medicine, Auburn University, AL 36849-5519. Telephone: 205/844-4539. Auburn University is an Affirmative Action/Equal Employment Opportunity Institution. Women and minorities are encouraged to apply.

PRESIDENT/SCIENTIFIC DIRECTOR

The Neuropsychiatric Research Institute (NRI) invites applications and nominations for a senior position from well-established investigators who will lead and develop research programs in neuroscience. NRI is an independent, non-profit, clinical and basic science research institution located in Fargo, North Dakota. It has a long history of research contributions, administrative leadership and North Dakota School of Medicine and affiliated hospitals and with North Dakota State University where excellent opportunities for collaborative basic and applied neuroscience research programs and the potential for faculty appointments and teaching activity are expected. Application deadline is January 1, 1994, or until the position is filled. Please direct inquiries or submission of curriculum vitae to: names of 3 references to: L. Wolfe, Chair of Search Committee, College of Veterinary Medicine, Auburn University, AL 36849-5519. Telephone: 205/844-4539. Auburn University is an Affirmative Action/Equal Employment Opportunity Institution. Women and minorities are encouraged to apply.
Chair Biology

Georgia Southern University invites applications for the position of Chair in the Department of Biology. This 12-month, tenure-track position at the rank of Associate or Full Professor starts July 1, 1994.

We seek a dynamic individual with the following qualifications:

- proven administrative ability
- demonstrated leadership and organizational skills
- effective interpersonal skills
- strong teaching credentials
- Ph.D. or Sc.D. at the time of application with proven record of research

The Biology Department is a rapidly growing department with a strong commitment to teaching and research excellence. There are currently 22 faculty, including a Callaway Chair of Research, 30 M.S. degree students, and 650 undergraduate majors. The GSU Botanical Garden, the Laboratory of Arthropodology and Parasitology, the Smithsonian Institution's National Tick Collection, and the GSU Herbarium are located on campus and are affiliated with the department.

Georgia Southern University, a unit of the University System of Georgia, is located in Statesboro, a community of approximately 30,000 residents. The 601-acre campus lies 200 miles southeast of Atlanta and 50 miles northwest of historic Savannah within easy driving distance of beaches, islands, and resorts of Georgia and South Carolina. The enrollment of over 14,000 reflects a 15% enrollment growth since 1984, resulting in the addition of over 200 faculty positions. The university offers 25 undergraduate degrees in 75 major fields of study, 13 master's degrees in 49 fields, the Education Specialist degree, and the Ed. D. in Educational Administration. Georgia Southern offers selected graduate programs in Savannah in affiliation with Armstrong State and Savannah State Colleges.

Send a letter of application addressing job description, a curriculum vitae, and three letters of reference to Dr. B. W. Ponder, Chair Biology Search Committee, Landrum Box 8142, Georgia Southern University, Statesboro, GA 30460-8142. Fax (912) 681-5846. To ensure consideration for this position all materials must be postmarked by Dec. 20, 1993. The names of applicants and nominees, curricula vitae, and other general non-sensitive information are subject to public inspection under the Georgia Open Records Act. Georgia Southern is an Equal Opportunity/Affirmative Action Institution. Persons who need accommodations in the application process under the American with Disabilities Act should notify the search chair. SEARCH # 27372.
Succeeding Together
Research  Treatment  Education

Ontario Cancer Institute/Princess Margaret Hospital, one of North America’s largest cancer research and treatment centres, houses the Department of Medical Biophysics of the University of Toronto. The Institute seeks a Senior Scientist to establish and direct a protein expression laboratory.

Director
PROTEIN EXPRESSION LABORATORY

The aim of this new facility will be to assist other members of the Institute in overexpressing and purifying recombinant proteins using the latest expression technologies. The recombinant proteins will be used for biochemical studies and structural studies using X-rays, NMR or electron microscopy. The Director will also be expected to carry out a strong independent research program.

Extensive practical experience in molecular cloning, protein expression using eukaryotic and prokaryotic cells and related techniques is essential. The successful applicant should possess excellent interpersonal skills, enjoy teamwork, and be eligible for appointment at the assistant or associate professor level in the Department of Medical Biophysics of the University of Toronto.

Interested persons should send their curriculum vitae, statement of research interests, and the names of three references to: Dr. Victor Ling, Ontario Cancer Institute/Princess Margaret Hospital, 500 Sherbourne Street, Toronto, Ontario, Canada, M4X 1K9.

In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

Ontario Cancer Institute
Princess Margaret Hospital

FACULTY POSITIONS
Microbiology, Molecular Biology and Biochemistry

Applications are invited for two tenure-track 12 month faculty positions at the Assistant Professor level from individuals interested in 1) experimental analysis of protein structure and function relationship, and 2) anaerobic bacteria. Both positions include generous start-up packages and full laboratory support for three years. They are the first of four positions to be filled over the next two years and represent an expansion of the department into new research areas. Successful candidates will complement existing teaching and research programs in environmental, medical microbiology, plant molecular biology and biochemistry, and developmental biology. We seek one individual with an active research program in application of either biochemical or biophysical techniques to the study of protein structure and function. Examples of specific interests include x-ray crystallography, evolution of protein structure and function, ligand-cell receptor interactions, and protein-nucleic acid interactions. A second position is available for an individual with an active research program investigating anaerobic bacteria. Examples of research interests include physiology and molecular biology of anaerobes involved in: i) bioremediation of toxic wastes, ii) methanogenesis, iii) the rumen, and iv) host-para site interactions. The successful candidate should have a strong background in either biochemistry or molecular biology. Submit letter of application, statement of present and future research interests, curriculum vitae, and names of three references to: Chair, Search Committee, Department of Microbiology, Molecular Biology and Biochemistry, University of Idaho, Moscow, ID 83844-3052 (208-882-7960). The search will be closed on January 1, 1994, or when a sufficient number of qualified applicants have been identified. AA/EOE.

TWO ENDOWED CHAIRS IN PHYSICAL CHEMISTRY

University of California, San Diego

The Joseph E. Mayer Chair of Theoretical Chemistry and the Distinguished Chair of Physical Chemistry have been established at the Chemistry Department of the University of California, San Diego. Both are full, tenured professorships, salaries to be commensurate with experience and University of California salary scale. Applications, indications of interest, and recommendations of others who should be considered are most welcome. Please submit to Professor Katja Lindenberg, Chair, Department of Chemistry, University of California, San Diego, La Jolla, CA USA 92093-0332. All areas of physical chemistry, including applications of physical chemistry to other branches of chemistry and to other fields of science, including physical, biological, material, and environmental sciences, will be considered. All applications received by November 30, 1993 or thereafter until position is filled will be assured consideration. Affirmative Action/Equal Opportunity Employer.

CENTER DIRECTOR, USDA ARS WESTERN HUMAN NUTRITION RESEARCH CENTER. The USDA Agricultural Research Service seeks a Center Director for the Western Human Nutrition Research Center at the Presidio of San Francisco. The Center Director provides leadership for the overall mission of the WHNRC, which is to develop reliable, efficient and inexpensive methods for defining nutritional status and to define human nutrition and structural studies. The Center Director is also encouraged to pursue a personal research program. The Center is located in a well-equipped modern research facility which includes a 12-bed, fully staffed metabolic unit. Qualified applicants will have a PhD in nutrition or related area and/or MD; will be internationally recognized as an authority in nutrition research; and will have experience in the management of human nutrition research programs, including financial and human resource management. This is a federal Senior Executive Service position, salary $92,900-$115,700 per year. ARS is an Equal Opportunity Employer; qualified women and minorities are encouraged to apply. For additional information, contact Dr. Robert Regnato, USDA, ARS, 800 Buchanan St., Albany, CA 94710; phone (510) 559-6060. For official position announcement and application information contact Gwen Donovan, phone (301) 344-4622. Applications must be post marked by Jan. 15, 1994.

CHAIR, DEPARTMENT OF PHARMACOLOGY AND TOXICOLOGY
WRIGHT STATE UNIVERSITY
SCHOOL OF MEDICINE, DAYTON, OHIO

We seek a Ph.D. or M.D. with an established record of external funding, and a commitment to scholarly achievement in research and teaching. We participate in the University’s Biomedical Sciences Ph.D. Program and have teaching responsibilities for medical and nursing students.

The School of Medicine has 240 full-time faculty and over $7 million in extramural research support. It is a model for community-based medical education and is a leader in recruiting and retaining minority students.

The combined chair/faculty position has a 12 month salary commensurate with experience, start-up funds, and an opportunity to build and shape the direction of the department. Opportunities exist for collaboration with basic and clinical scientists at the Tri-Service Toxicoogy Center at WPAFB and the Dayton VA Medical Center.

Submit curriculum vitae, and the names and telephone numbers of three references to Jane N. Scott, Ph.D., Chair, Search Committee, Wright State University, School of Medicine, P.O. Box 927, Dayton, Ohio 45401-0927; (FAX) 513-872-2244.

Review of applications will begin January 15 and will continue until the position is filled.

Wright State University is an EO/AA Employer.

Chair, Department of Pharmacology and Toxicology, Wright State University, School of Medicine, Dayton, Ohio 45401-0927. Chair, Search Committee, Wright State University, School of Medicine, P.O. Box 927, Dayton, Ohio 45401-0927; FAX, 513-872-2244.
COLD SPRING HARBOR LABORATORY
CONFERENCE ON
ZEBRAFISH DEVELOPMENT
AND GENETICS
April 27-May 1, 1994

Organized by:
Wolfgang Driever, Massachusetts General Hospital
Judith Eisen, University of Oregon
David Grunwald, University of Utah
Charles Kimmel, University of Oregon

The meeting will cover a broad range of topics. The sessions will focus on:
- Gastrulation, body patterning and morphogenesis
- Determination of cell fate
- Development of the nervous system
- Growth control
- Organogenesis
- Genetics and Genomics
- Gene transfer, gene expression, new methodologies

Submitted abstracts will be considered for oral or poster presentations. The abstract deadline is February 9, 1994.

Registration and abstract materials are available from:
Meetings Coordinator
Cold Spring Harbor Labaratory
1 Bungtown Road
Cold Spring Harbor, NY 11724-223
516-367-8346 FAX: 516-367-8845

STANFORD UNIVERSITY
COMBINED ADMISSIONS MODE IN
BIOLOGICAL AND BIOMEDICAL SCIENCES

In addition to entering a given program directly, students may now opt to enter graduate study in the biological and biomedical sciences through the Combined Admissions Mode or CAM. This program enables a small number of select students to begin graduate study at Stanford University without first committing to a given department or program. During the first year, following a series of "rotations" in different departments, CAM students select a thesis advisor and program in which to complete the Ph.D. The flexibility and breadth offered by CAM should appeal to those who view two or more departments or programs as equally attractive. Participating programs are:

DEPARTMENTAL: INTERDEPARTMENTAL:
Biochemistry Biophysics
Biological Sciences Cancer Biology
Cell Biology Immunology
Chemistry Medical Information Sciences
Developmental Biology Neurosciences
Genetics
Microbiology and Immunology
Pharmacology
Molecular and Cellular Physiology

More information and application forms for CAM can be obtained from: Office of Graduate Admissions, Old Union, Room 137, Stanford University, Stanford, CA 94305-3005. Deadline for receipt of completed applications is Dec. 15, 1992.

Stanford University is committed to the principles of Affirmative Action and welcomes applications from students of either sex and any race, color, religion, sexual orientation or national and ethnic origin.
POSITIONS OPEN

FACULTY POSITION

BIOCHEMISTRY/
CELLULAR & MOLECULAR BIOLOGY

The North Central College Biology and Chemistry Departments seek a broadly trained person to teach biochemistry, cellular/molecular biology, and introductory courses in biochemistry. This tenure-track joint appointment begins September 1994. Ph.D. required. Applicants should have the potential for excellence in undergraduate teaching and research. For more information, call 330-842-4002. North Central College is a 132-year-old, comprehensive liberal arts institution of 2500 students with a distinguished tradition of teaching and research. The department seeks candidates with an interest in the area of neurobiology, including neuropharmacology, neurochemistry, and neuroendocrinology. The successful candidate will be involved in teaching courses at the graduate and/or undergraduate level, and be involved in research with students. Send curriculum vitae and a letter of interest to: Ann Redding, Secretary, to the Biology/Chemistry Search, North Central College, P.O. Box 3063, Naperville, IL 60565–7063. Review of applications begins January 3, 1994, and continues until position is filled. We particularly seek applications from women and minorities.

FACTORIES OPEN

FACULTY POSITION

Institute of Biosciences and Technology

The Institute of Biosciences and Technology in Houston, Texas, a component of Texas A&M University (TAMU), invites applicants at all academic levels for tenure-track appointments. The Institute is Heredity Studies related to Agriculture and Medicine. Focus areas include: Genome Research, Mammalian Viruses, Matrix Biology, Cancer Biology, Human Nutrition, CarcinoGen-Mutagen Research, Transgenic Animal Models of Disease, and Genetic Regulation. Faculty appointments will be at TAMU in College Station. Substantial resources are available in our new 11-story building in the Texas Medical Center. Applicants should submit curriculum vitae, a description of future research plans, and three letters of recommendation to: Dr. Robert D. Wells, Director, Institute of Biosciences and Technology, Texas A&M University, 2121 West Holcombe Boulevard, Suite 202, Houston, TX 77030-3303, FAX: 713-677-7725.

Texas A&M University is an Affirmative Action/Equal Opportunity Employer.

LANDSCAPE ECOLOGY

Duke University's School of the Environment seeks applicants at any level for a tenure-track or tenured faculty position in LANDSCAPE ECOLOGY. The successful candidate will develop a nationally recognized, externally funded research program, and to teach and advise graduate-level research and professional students. Training and/or experience in GIS in conjunction with expertise in ecology, forestry, land use, geography or wetlands is required. Interest and experience in remote sensing, modeling, and/or experimental approaches to problems such as cumulative impacts, ecosystem linkages and transfers or land use changes are desirable. Applicants should send curriculum vitae and three references to: Dr. Jim Kromp, Landscape Ecology Search Committee, School of the Environment, Duke University, Durham, NC 27708-0328, USA. Applications will be accepted through June 15, 1993. Deadline for a successful candidate is identified. Duke University is an Equal Opportunity/Affirmative Action Employer.

FACTORIES OPEN

FACULTY POSITION

UNIVERSITY OF PITTSBURGH

The Department of Behavioral Neuroscience is seeking candidates for a TENURE-TRACK POSITION available July 1994, subject to budgetary approval. We are particularly interested at the rank of ASSISTANT PROFESSOR, but exceptional candidates will be considered for appointment at higher ranks. The successful candidate will establish a research program in the area of neuroscientists. This position will encourage applications from women and underrepresented minorities. Applications from women and underrepresented minorities are strongly encouraged. Please send curriculum vitae, a letter of interest, research bibliography, and names and addresses of three references to: Division of Basic Sciences, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104. The Center is an Equal Employment Opportunity/Committed to work force diversity and provides a smoke-free environment.

POSTDOCTORAL POSITIONS

Fred Hutchinson Cancer Research Center

Postdoctoral positions are available in the Division of Basic Sciences and Program in Molecular Medicine for candidates with research interests in cellular, molecular and chemical biology and virology. Applications from women and underrepresented minorities are strongly encouraged. Please send curriculum vitae, a letter of interest, research bibliography, and three or more references to: Division of Basic Sciences, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104. The Center is an Equal Employment Opportunity/Committed to work force diversity and provides a smoke-free environment.

Positions available immediately, for a postdoctoral position with a background in autonomic pharmacology and physiology to investigate the effects of inhaled N-acetylcycteine on allergic inflammatory responses. Experience in animal physiology is essential. Applications from women and underrepresented minorities are strongly encouraged. Send curriculum vitae, a letter of interest, and three references to: Division of Basic Sciences, Fred Hutchinson Cancer Research Center, 1124 Columbia Street, Seattle, WA 98104. The Center is an Equal Employment Opportunity/Committed to work force diversity and provides a smoke-free environment.

Applications are invited for the above post in the School of Biological Sciences. The position will be expected to teach both undergraduate and postgraduate courses covering a broad range of subject matter, to conduct an active research programme and to supervise graduate students. Expertise is sought in the broad area of gene expression and signal transduction research. Experience in any area of biochemistry and molecular biology will be considered. A willingness and ability to attract support from external funding sources is essential. We are particularly interested in applications from molecular biologists who are interested in cytokine biology. The salary scale for this position is NZ$37,440 to NZ$49,088 per annum. Conditions of appointment and method of application are available from: Dr. Kevin Hare, School of Biological Sciences, The University of Auckland, Private Bag 92019, Auckland, New Zealand, Ph: 09-365 9854, Fax: 09-365 9853, Email: kevin@bioa.auckland.ac.nz. Applications close on 10 February 1994.

THE UNIVERSITY OF AUCKLAND IS AN EQUAL OPPORTUNITY EMPLOYER.

BIOLOGY SABBATICAL REPLACEMENT:

Teach Population and Community Ecology, Field Botany, Biological Diversity, and Evolution in a leading liberal arts college, with a strong biology department. Ph.D. or A.B.D. is required. The position is a sabbatical replacement with possible renewal for a second year. Apply: Jerry Woolpy, Eartham College, Richmond, IN 47374. Deadline is May 15, curriculum vitae, three letters of reference, and a letter describing biology teaching experience and philosophy. Eartham College is an Affirmative Action/Equal Opportunity Employer. We particularly encourage applications from women, minorities, and Quakers. Reviewed after January 4, 1994.

POSTDOCTORAL POSITIONS:

The Department of Molecular Immunology, The University of Texas Medical Branch, Galveston, TX, is seeking candidates with a strong background in molecular biology and immunology. Underrepresented minorities and women are especially encouraged to apply. Salary is commensurate with experience. Applicants should send a letter of application, curriculum vitae, and three letters of recommendation to: Dr. John lettuce, Biology Department, Texas A&M University, College Station, TX 77840-4460.

Applications are invited for the above post in the School of Biological Sciences. The position will be expected to teach both undergraduate and postgraduate courses covering a broad range of subject matter, to conduct an active research programme and to supervise graduate students. Expertise is sought in the broad area of gene expression and signal transduction research. Experience in any area of biochemistry and molecular biology will be considered. A willingness and ability to attract support from external funding sources is essential. We are particularly interested in applications from molecular biologists who are interested in cytokine biology. The salary scale for this position is NZ$37,440 to NZ$49,088 per annum. Conditions of appointment and method of application are available from: Dr. Kevin Hare, School of Biological Sciences, The University of Auckland, Private Bag 92019, Auckland, New Zealand, Ph: 09-365 9854, Fax: 09-365 9853, Email: kevin@bioa.auckland.ac.nz. Applications close on 10 February 1994.

THE UNIVERSITY OF AUCKLAND IS AN EQUAL OPPORTUNITY EMPLOYER.

POSTDOCTORAL POSITIONS: Positions are immediately available for fellowships to work on projects (e.g. signal transduction, autoimmunity, cytokines/CM) with the Division of Immunology. Underrepresented minorities and women are especially encouraged to apply. Career progression will be emphasized. Send curriculum vitae and references to: Dr. Gary Klimpel, Department of Immunology, The University of Texas Medical Branch, Galveston, TX 77555–1019; Telephone: (409) 772-4917; Fax: (409) 772-5065. Applications are welcome at any time.

POSTDOCTORAL POSITIONS: Positions are immediately available for fellowship to work on projects (e.g. signal transduction, autoimmunity, cytokines/CM) with the Division of Immunology. Underrepresented minorities and women are especially encouraged to apply. Career progression will be emphasized. Send curriculum vitae and references to: Dr. Gary Klimpel, Department of Immunology, The University of Texas Medical Branch, Galveston, TX 77555–1019; Telephone: (409) 772-4917; Fax: (409) 772-5065. Applications are welcome at any time.

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POSTDOCTORAL SCIENTIFIC RESEARCH OPPORTUNITIES IN INDIA 3 to 12-month fellowship. Applications are invited for U.S. citizens in 1993–94. For more information, contact: Jeannine Marie Greene, Academy for Educational Development, 1550 18th Street, N.W., Washington, DC 20037, or 1-800-545-8007.
**Translating Innovative Ideas Into Powerful Results**

At ImmuLogic, an expanding biopharmaceutical company, we’re developing products to treat allergies and autoimmune diseases.

**Postdoctoral Fellow**

In this position, you will define the intracellular signalling pathways associated with IL-2 and IL-4 production in a unique set of murine Th0 cell hybridomas. Qualifications: Ph.D. with experience in intracellular signalling, (preferably in lymphoid cells) required. Background in immunology strongly preferred. This position is funded by the National Institutes of Health for approximately 2 1/2 years. Dept. PFD.

We offer a competitive compensation and benefits package. Please send your CV, referencing the department, to: Human Resources Department, ImmuLogic Pharmaceutical Corporation, 610 Lincoln Street, Waltham, MA 02154. An equal opportunity employer. Principals.

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**AMERICAN ASSOCIATION FOR CANCER RESEARCH**

The American Association for Cancer Research (AACR) is a professional society of over 9,000 scientists and physicians involved in cancer research. Members in the AACR enjoy:

- subscriptions to the journals *Cancer Research*, *Cell Growth & Differentiation* (CG&D), and *Cancer Epidemiology, Biomarkers & Prevention*, at reduced member rates
- early notification of and reduced registration rates at the AACR Annual Meeting and Special Conferences
- Employment Register, Directory of Members, public education activities, and many other benefits

Special programs to provide enhanced career development opportunities for minority scientists include:

- Mentorship Program
- Travel Awards to Scientific Meetings

**American Association for Cancer Research**
Public Ledger Building 620 Chestnut Street, Suite 816 Philadelphia, PA 19106-3483 Telephone: (215) 440-9300 FAX: (215) 440-9313

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**We Have A 104 Year Track Record Of New Drug Discovery.**

Since 1888, Abbott Laboratories has remained committed to improving the quality of human life through the development of advanced health care products. Today we invite you to join us and contribute to our pioneering research.

**Sr. Research Microbiologist**

You will assist in all aspects of *in vitro* characterization of anti-bacterial and antifungal agents and may be involved in the identification of new molecular targets for antimicrobial therapy. Duties will also include supervision of routine screening, design and implementation of methods for detailed evaluation of antimicrobial agents and the development of an independent research program.

The successful candidate will have a PhD in Microbiology with 2-6 years of experience in clinical or general microbiology. Knowledge of molecular biology and antibiotic evaluation on mechanism of drug action is desirable. Experience with mycobacteria, mycoplasma or fungi helpful. Reply to Patricia Handy, Job# SKT71222.

**Research Associate**

**Cell/Molecular Biology**

You will participate in the recombinant expression of human proteins which will be used for the assays in the discovery of potential therapeutics and in the determination of the structure of protein and ligand/protein complexes. As your primary focus will be in the use and improvement of a baculovirus expression system, experience in this area would be a definite advantage. A BS/MS and proficiency in cell biology and molecular biology are also required. Reply to Alison Burke Job# RS69959.

Abbott Laboratories provides an excellent compensation and benefits package, including profit sharing and a stock retirement plan. We are located in an attractive suburban setting approximately 30 miles north of Chicago. For confidential consideration, send your resume with salary history (indicating appropriate reply name and Job#) to: Dept. 583, AP6D, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

**ABBOTT LABORATORIES**

Quality Health Care Worldwide 1888-1993

*Experience The Abbott Edge.*
**LEICESTER UNIVERSITY**

**LECTURESHP IN GENETICS**

**Department of Genetics**

Applications are invited for a post of Lecturer in Genetics in the Department of Genetics, tenable from 1 October 1994. Candidates with interests in any exciting area of genetics are encouraged to apply, although researchers in cell and developmental biology would be particularly welcome.

The Department of Genetics embraces a wide spectrum of genetical research involving 13 research groups including Professors Alec Jeffreys (DNA fingerprinting), Gabby Dover (molecular and genome evolution) and Peter Williams (bacterial pathogenicity).

The Department is accommodated in modern laboratories with excellent research facilities and achieved the highest rate of 5 in the recent U.K. University Research Assessment Exercise.

Initial salary, dependent on qualifications and experience, will be on the Lecturer Grade B scale — £19,642 to £25,107, or the Lecturer Grade A scale — £13,601 to £18,855 p.a.

Further particulars and an application form are available from the Staffing Office (Academic Appointments), University of Leicester, University Road, Leicester LE1 7RH, telephone (0533) 522758.

The closing date for applications is 9 December 1993.

Towards equal opportunities

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**COLD SPRING HARBOR LABORATORY**

**Postdoctoral Position in Developmental Neurobiology**

Positions starting Jan '94 to investigate the cellular mechanisms controlling neuronal growth and development of synaptic connectivity in the visual system. Projects focus on the roles of 1) glutamate receptor activity 2) intracellular calcium 3) protein kinases and 4) cytoskeletal components. The lab uses pharmacological and recombinant viral technology to alter neuronal growth and synaptic activity and in vivo confocal microscopy to assay the effects of manipulations. Experience in imaging or cellular neurobiology required.

Cold Spring Harbor Labs has built an energetic Neuroscience group organized around a multidisciplinary approach to neuronal plasticity. Send curriculum vitae and 3 letters of recommendation to: Dr. Holly Cline, Personnel Office, Cold Spring Harbor Laboratory, P.O. Box 100, Cold Spring Harbor, NY 11724.

Equal Opportunity Employer M/F
VERTEBRATE PHYSIOLOGIST

Tenure-track position at Assistant Professor level to begin Sept 94. Ph.D. and postdoctoral experience required. The Biology Department at Western Washington University seeks applicants with expertise in vertebrate physiology, strength at the organismal level is preferred. The successful applicant should be able to teach courses in introductory animal biology and vertebrate physiology, and to develop advanced courses in areas of expertise. The teaching assignment will include a human physiology service course one quarter per year. An active research program is expected, involving advanced undergraduate and graduate (MS) students. The successful applicant is expected to seek external funding for research and instructional development. The department is committed to excellence in undergraduate teaching, with research playing an important role in the educational process. The department will occupy a new building in 1995, with modern research laboratories, controlled environmental rooms, marine and fresh water facilities, and facilities to maintain animals except mammals and birds. WWU is located in northwest Washington, near the foothills of the Cascade Mountains and on Puget Sound.

Applicants should submit a curriculum vitae, a concise statement of teaching and research interests and accomplishments, and three letters of reference, and phone numbers of three references to:

Dr. June Ross
Search Committee Chair
Biology department MS 9060
Western Washington University
Bellingham, WA 98225-9060
Phone 206-650-3677; FAX 206-650-3148

We shall begin reviewing applications on 18 Jan 94, and the position will remain open until filled.

Affirmative Action/Equal Opportunity Employer.

Assistant Professor
NEUROBIOLOGIST

The Department of Biology at Bates College, a selective liberal arts college with an enrollment of 1540 students, has an opening for a tenure track faculty position in Neurobiology beginning in Fall 1994. The successful candidate will become the eighth full time faculty member in Biology and will interact with additional faculty in Biopsychology. Teaching responsibilities include a general course in neurobiology, electives in area of specialization, and participation in the Department's core curriculum. Candidates are required to conduct a vigorous research program involving Bates undergraduates. The Department prefers candidates whose research interests involve the cellular or molecular mechanisms of neural function. The Ph.D. is required and post doctoral research experience is preferred. Applicants should provide a cover letter indicating teaching and research interests and experience, curriculum vitae, and three letters of recommendation to: NEUROBIOLOGY SEARCH COMMITTEE, c/o Secretarial Services, Andrews Road, 7 Lane Hall, Bates College, Lewiston, Maine 04240. APPLICATION DEADLINE: January 1, 1994. BATES COLLEGE values a diverse college community and seeks to assure equal opportunity through a continuing and effective affirmative action program. We welcome applications from women and minorities.

Department of Biology
Bates College
Lewiston, Maine 04240

Research opportunities in an ideal setting.

Anergen is an exciting and growing biotechnology firm located on the shores of the San Francisco Bay, a short drive from Stanford, UCSF and UC Berkeley. We are developing novel therapeutics for the treatment of human autoimmune diseases including multiple sclerosis, myasthenia gravis, rheumatoid arthritis, and Type I diabetes.

The following positions are currently available.

Research Scientists
Molecular Biologist — Requires a PhD in Molecular or Cellular Biology and 2+ years' industrial experience in the study of human T cells and macrophages at the molecular level.

Cellular Immunologist — Requires a PhD in Immunology and 3+ years' experience in human immunology, including T cell cloning. Knowledge of flow cytometry and lymphokine biology beneficial.

Research Associates
Cellular Immunology — Requires a BS/MS in Biology or related field, a minimum of 2 years generating and propagating human T cell clones, and experience in analyzing activation of T cell clones, proliferation, lymphokine production, and background in flow cytometry.

Anergen offers an attractive compensation, and benefits package. For immediate consideration, please forward your resume indicating area of interest to: Anergen, Inc., Attn: Joan Shields, 301 Penobscot Drive, Redwood City, CA 94063; or fax it to: (415) 361-8958. EOE.

Anergen, Inc.

RESEARCH & DEVELOPMENT POSITIONS

Promega Corporation, leading the biotechnology industry worldwide, is currently seeking qualified professionals with the following expertise to enhance our R & D team and join a dynamic and rapidly expanding company.

SENIOR SCIENTISTS (Ph.D.)

• Cellular Immunology - TR, Immunology/related degree and 2-4 yrs. postdoc research exp. in cellular/clinical immunomodulation development required. Background developing, utilizing, researching contemporary immunology techniques; familiarity with current literature in the field essential.

• Complex Genome Analysis - DS. Degree in molecular biology with at least 2 yrs. postdoc experience; significant experience with DNA analysis techniques including Northern and Southern hybridization, library construction/screening, DNA sequencing and PCR amplification; and experience with non-radioactive nucleic acid detection techniques. Prefer experience with fluorescent DNA detection instrumentation and experience with HPLC and capillary electrophoresis instrumentation.

• Genetic Analysis - JS. Degree in molecular biology or related area. Preference with nucleic acid purification and amplification methods, linkage analysis, fluorescent in situ hybridization, and/or non-isotopic detection methods. Experience handling clinical or forensic materials; facility with computer-based analyses, especially national genome databases and DNA analysis software; and 2 yrs. exp. in an industrial research setting.

• Signal Transduction - SG. Biochemistry, molecular endocrinology, or cellular biology degree and proven record of research publication required. Extensive protein purification exp. a must.

SCIENTISTS (MS/BS)

• Genetic Analysis - JS. Degree in molecular biology or related area and at least 2 yrs. lab exp. with molecular biology of nucleic acids with a demonstrated record of success.

• Molecular Biologist - KW. Degree or equivalent experience in molecular biology techniques with emphasis in DNA sequencing. Prefer broad experience in molecular genetics techniques.

• Nucleic Acid Detection & Purification - CS. Degree with 3-5 yrs. experience; extensive experience with routine molecular biology methods including nucleic acid isolation (RNA and DNA), library construction, nucleic acid amplification techniques, hybridization and probe labeling systems; and expertise with fluorescent in situ hybridization or other in situ hybridization methods is a requirement. Prefer experience in designing high throughput nucleic acid detection systems.

We offer an innovative and diverse environment with competitive salary and comprehensive benefits in the city that Money Magazine rated as 2nd best in the U.S. in 1993. To apply, forward a resume indicating position of interest with salary requirements to: PROMEGA CORPORATION, Human Resources (code), P. O. Box 7878, Madison, WI 53711-7878. (No agency solicitation accepted.)
Queen's University
Department of Anatomy and Cell Biology
Faculty Position

Applications are invited for:

1. A tenure track appointment at the rank of Assistant or Associate Professor. A Ph.D. and/or M.D. or D.D.S. degree and a minimum of two years of postdoctoral experience are essential. Outstanding candidates with strong interdisciplinary research programs in Cell Biology, Neuroscience, Human Kinetics or Physical Anthropology will be considered. Demonstrated ability to teach Human Gross Anatomy would be an asset.

2. A special appointment at the rank of Assistant Professor contingent on the applicant obtaining a Medical Research Council, Heart and Stroke Foundation or equivalent scholarship. A Ph.D. and/or M.D. or D.D.S. degree and a minimum of two years of postdoctoral experience are essential. Outstanding candidates with strong interdisciplinary research programs in Cell Biology, Neuroscience, Human Kinetics or Physical Anthropology will be considered. Ability to teach in two areas: Human Gross Anatomy, Histology, Neuroscience, or Embryology, in an integrated medical curriculum would be an asset. Initially, up to two years of special funding may be available for an outstanding candidate.

Candidates should indicate the position applied for and arrange to have a copy of their curriculum vitae and at least three letters of recommendation sent to: Dr. M.G. Joneja, Professor and Head, Department of Anatomy and Cell Biology, Faculty of Medicine, Queen's University, Kingston, Ontario Canada K7L 3N6. In accordance with Canadian Immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Queen's University has an employment equity program and welcomes diversity in the workplace and encourages applications from all qualified candidates, including women, aboriginal peoples, people with disabilities and visible minorities. Applications and letters of recommendation should be forwarded as soon as possible and no later than January 15, 1994.

The Royal Swedish Academy of Sciences invites applications for the position of Programme Officer within the International Geosphere-Biosphere Programme (IGBP), available from the beginning of 1994. The IGBP is an internationally coordinated research effort, dealing with the causes and effects of global environmental change. Current projects address atmospheric chemistry, the ocean carbon cycle, coastal zone interactions, terrestrial ecosystems, ecological hydrology and past global changes. Integrated modelling work is also ongoing, together with the development of data systems and monitoring, and regional research and training.

The Programme Officer will be responsible for:
- liaison with the science community with emphasis on internal linkages between IGBP core projects
- support of the IGBP Scientific Committee
- representation of the IGBP at meetings
- editing of reports and other publications

The successful candidate will:
- have a Ph.D. in a relevant scientific field, preferably complementing the expertise of the existing staff
- have proven interest in global environmental change research
- be well acquainted with international scientific collaboration, including organisational and policy aspects
- be fluent in written and spoken English; knowledge of other languages is an advantage

The Programme Officer is based in Stockholm, Sweden. The minimum contract period is two years, with the possibility of an extension. The salary is paid in Swedish Crowns and depending on qualifications, is based on that of a senior scientist in Sweden.

Letters of application describing past relevant experience, with a curriculum vitae and the names of three referees, should be sent no later than 5 Dec. 1993 to the IGBP Secretariat, The Royal Swedish Academy of Sciences, Box 50005, S-10405 Stockholm, Sweden; fax +46 8 166405, tel +46 8 166448.

**NEUROSCIENCE FACILITIES MANAGER**
**THE CENTER FOR BEHAVIORAL NEUROSCIENCE, SUNY AT STONY BROOK**

The Center for Behavioral Neuroscience is a multidisciplinary facility dedicated to research on the functional organization of the brain. We are seeking a facilities manager who will oversee the purchase, care and use of all apparatus in the Center and who will facilitate research both for Center investigators and for collaborative efforts. The latter will often necessitate conducting pilot experiments. The candidate should be thoroughly versed in modern neuroanatomical techniques and have working knowledge of standard electrophysiological and small animal surgical techniques. The ideal candidate would have a Ph.D. or masters degree in neuroscience or closely related field, be technically proficient and interested in developing and implementing new technologies and is interested in contributing to neuroscience research. Salary is commensurate with educational level and research experience. For consideration, send curriculum vitae and names, addresses and telephone numbers of 3 references to: Facilities Manager Search Committee, Center for Behavioral Neuroscience, SUNY at Stony Brook, Health Sciences Center, Level 2, room 172, Stony Brook, New York 11794. Closing date for applications is 12/8/93.

**DIRECTOR OF ANIMAL INSTITUTE**
**ALBERT EINSTEIN COLLEGE OF MEDICINE**

A leading New York City medical school invites applications from individuals with experience in organization, operation and management of research animal services and supervisory skills to direct the daily operations of a large AAALAC-accredited animal facility. Primary emphasis will be on clinical and administrative duties, although research and academic activities will be encouraged and opportunity exists for the candidate to have a faculty appointment in an academic department. Duties will include overseeing veterinary care, supervising animal facility staff, guiding faculty in the use of animals in research, ensuring faculty compliance with federal, state and local agencies, and monitoring research proposals involving animal usage. This full-time professional staff position reports directly to the Associate Dean for Scientific Operations. Qualifications: DVM and/or PhD with Board certification or eligibility in ACLAM. Salary will be competitive and commensurate with qualifications and experience. Send resume with names of 3-4 references to: Dr. Cedric S. Raines, Chair, Search Committee (SCI), Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

The Department of Biochemistry at the University of Missouri-Columbia invites applications for tenure track faculty positions at the assistant professor level. Candidates should have an excellent academic background with postdoctoral experience, and will be expected to develop a vigorous research program and to participate in undergraduate and graduate teaching. The University has undertaken the development of a program in protein and nucleic acid structure. Individuals with expertise in structural biology (especially those employing NMR or other biophysical methods) are encouraged to apply. New laboratory facilities and excellent start up support are available with which to initiate competitive research programs. Applicants should send a curriculum vitae, a research plan, and have three letters of reference sent to:

Department of Biochemistry
117 Schweitzer Hall
University of Missouri
Columbia, MO 65211

Attention: Dr. Thomas Quinn, Chair
Faculty Search Committee

Applications will be accepted until suitable candidates are identified.

The University of Missouri is an Equal Opportunity/Affirmative Action Employer and specifically invites and encourages applications from qualified women and minorities.
SIBIA is continuing to expand its interdisciplinary research and development on therapeutics for neurodegenerative diseases. We have established an enviable record in the development of innovative technologies integral to the biopharmaceutical industry. Currently we are seeking the following talented candidates to join our interdisciplinary research group:

**SENIOR RESEARCH SCIENTIST**

PhD with postdoctoral experience of more than five years in recombinant expression of receptors and ion channels. You will direct a group involved in the expression of cloned voltage- and ligand-gated ion channels in mammalian cells. Two or more years' industrial experience is preferred.

**RESEARCH SCIENTIST**

PhD with postdoctoral experience of three to five years along with a detailed understanding in functional characterization of recombinant ligand-gated ion channels in cells using calcium flux, receptor binding, and second messenger measurements.

Located on San Diego's beautiful La Jolla coastline, SIBIA offers not only a challenging professional and aesthetic environment, but also an outstanding competitive salary and benefits package. Send C.V. with names of three references to: Lynn Alba, SIBIA, 505 Coast Bl South, Suite 300, La Jolla, CA 92037. EOE.

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**UNIVERSITY OF BERN**

**POSTDOCTORAL POSITION**

The Division of Histology at the Institute of Anatomy of the University of Berne, Berne, Switzerland, invites Ph.D. or M.D. degree candidate applications for a new post doctoral position, starting on January 1, 1994 or later.

Candidates with 1 to 2 years of postdoctoral training preferentially in cell biology and who are experienced in light- and electron microscopy are encouraged to apply for this position in a research project on particle deposition in the lungs.

Please send your curriculum vitae, description of research interest and professional references to:

Dr. Peter Gehr, Institute of Anatomy, University of Berne, CH-3000 Berne 9, Switzerland.

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**MOLECULAR GENETICS OF EYE DISEASE**

Outstanding opportunity to join rapidly growing laboratory devoted to investigation of molecular genetics of eye disease including glaucoma and retinal and macular degeneration. New, superbly equipped facility. Experience with gene mapping and positional cloning technology is preferred. Faculty rank at Tufts University School of Medicine commensurate with experience. Reply to:

Janey L. Wiggs, M.D., Ph.D. Director, Molecular Genetics Unit New England Eye Center Tufts University School of Medicine 750 Washington Street Boston, MA 02111 FAX: (617) 956-4215


**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

**DEPARTMENT OF MEDICINE**

**A Ph.D. position is available in the laboratory of Dr. Peter Kolattukudy.**

Applicants are sought to study the role of the p-glycoprotein (MDR1) in multidrug resistance in E. coli and other gram-negative pathogens. Experience in molecular biology and/or prokaryotic biochemical techniques is required. Send curriculum vitae, statement of research interests, and names of three references to: Dr. Peter Kolattukudy, Department of Microbiology, The University of Arizona, Tucson, AZ 85724.

**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

**IN IMMUNOLOGY**

**St. Jude's Children's Research Hospital**

Memphis, Tennessee

Postdoctoral Research Associate position available immediately to study the role of the prokaryotic biology of natural product and antimetabolite drug resistance in mammalian systems. Projects include, (1) the use of in vitro mutagenesis and drug selection in vitro to obtain altered forms of p-glycoprotein in order to study the functional properties of this class of membrane transporters, and (2) the biochemical and molecular characterization of the mammalian reduced folate transporter to further understand the genetic basis for intrinsic resistance to antifolates and the fundamental nature of folate vitamin transport per se. Candidates should have Ph.D., M.D., or equivalent degree and significant expertise in molecular biology and recombinant DNA techniques. The deadline for applications is December 1, 1993. Send curriculum vitae, statement of research interests, and names, addresses and telephone numbers of three references to: Dr. Michael L. Vasil, Department of Microbiology, St. Jude's Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. An Equal Opportunity/Affirmative Action Employer. We provide a smoke-free environment.

**POSITIONS OPEN**

**POSTDOCTORAL POSITION(S)**

**To study the biochemical and molecular biology of natural product and anti-metabolite drug resistance in mammalian systems. Projects include, (1) the use of in vitro mutagenesis and drug selection in vitro to obtain altered forms of p-glycoprotein in order to study the functional properties of this class of membrane transporters, and (2) the biochemical and molecular characterization of the mammalian reduced folate transporter to further understand the genetic basis for intrinsic resistance to antifolates and the fundamental nature of folate vitamin transport per se. Candidates should have Ph.D., M.D., or equivalent degree and significant expertise in molecular biology and recombinant DNA techniques. The deadline for applications is December 1, 1993. Send curriculum vitae, statement of research interests, and names, addresses and telephone numbers of three references to: Dr. Michael L. Vasil, Department of Microbiology, St. Jude's Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38105. An Equal Opportunity/Affirmative Action Employer. We provide a smoke-free environment.

**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

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**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

**IN IMMUNOLOGY**

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Memphis, Tennessee

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**POSITIONS OPEN**

**POSTDOCTORAL POSITION**

**DEPARTMENT OF MEDICINE**

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**Associate Director for AIDS Research, Office of the Director**

The National Institute of Health (NIH) invites applications for the position of Associate Director for AIDS Research, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES) with a salary ranging from the ES-1 to ES-6 pay level per annum (currently $92,900 to $115,700). The person selected may be eligible for a Physicians Comparability Allowance ranging from $5,000 to $20,000 per year. A one year probationary period must be served by the individual selected if not currently in the career Senior Executive Service.

The position of Associate Director for AIDS Research also serves as the Director, Office of AIDS Research, and is responsible for (1) planning, coordinating and evaluating all AIDS related research activities at NIH; (2) developing a comprehensive strategic plan establishing objectives, priorities and policy governing the conduct and support of all NIH AIDS related research activities; (3) developing consolidated budget estimates for presentation directly to the President; (4) receiving and allocating all appropriated funds; and (5) establishing and overseeing an AIDS Advisory Council and coordinating committees involved in AIDS activities. The Associate Director shall act as the primary Federal official with responsibility for overseeing all AIDS research conducted or supported by the NIH.

Applicants must possess biomedical research experience and knowledge of AIDS related research. Desired factors which should be addressed: (1) Applicants should demonstrate substantive knowledge of AIDS related research by evidence of professional recognition and experience; (2) Applicants should demonstrate the ability to direct and manage biomedical research organization; (3) Applicants will be evaluated on type and extent of training and education; and (4) Applicants will be evaluated on honors and awards received.

Applicants are required to submit an Application for Federal Employment (SF-171), available at all Federal Job Information Centers and Federal Personnel Offices. Resumes are not acceptable applications. Additionally, applicants may send a curriculum vitae and a bibliography. The vacancy announcement will be based on nonmerit reasons such as race, color, religion, sex, national origin, political affiliation, marital status, disability, condition, age, or membership or nonmembership in an employee organization.

Selection for this position will be based solely on merit, with no discrimination for nonmerit reasons such as race, color, religion, sex, national origin, political affiliation, marital status, disabling condition, age, or membership or nonmembership in an employee organization.

NIH is an Equal Opportunity Employer.

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**Four Postdoctoral Positions**

**Plant Responses to Global Climate Change Program**

University of Nevada

The University of Nevada System, supported by a substantial grant from the NSF, is initiating a broad-scale study of plant responses to global climate change, with an emphasis on the impact of rising atmospheric CO₂ concentration on ecosystem to molecular-level plant processes. This research and infrastructure development program will bring together new and existing faculty from the University of Nevada, Reno, the University of Nevada, Las Vegas and Desert Research Institute. The collaborative effort centered around the new 5 million dollar world-class controlled environment plant growth facility at the Desert Research Institute in Reno. We are initially seeking 4 postdoctoral positions with outstanding Ph.D.-level scientists who can make substantial contributions in at least one of the following three areas:

1. **Effects of elevated CO₂ on plant gene expression/regulation (1 position)**

2. **Carbon and water exchange characteristics of plants at elevated CO₂ from the leaf to mesocom level (2 positions)**

3. **Role of source-sink relations and/or hormone balances in controlling the response of plants to elevated CO₂ (1 position)**

Postdoctoral positions are for up to 3 years, depending on progress, with a starting salary of $30,000 per year, plus benefits. These positions will be in Reno, Nevada, which is an outdoor-oriented community on the western edge of the Great Basin, and nestled against the eastern flank of the Sierra below Lake Tahoe. Hiking, skiing, biking, fishing and other water-related activities are primary attractions of the area. Close scientific connections and collaborations exist between scientists in this program and those at nearby institutions (e.g. UC Davis, Stanford).

Interested individuals should submit their curriculum vitae and names, addresses and phone numbers of three references by December 31, 1993 to Dr. Jeff Seemann, Plant Responses to Global Climate Change Program, Department of Biochemistry, University of Nevada, Reno, Nevada 89557-0014. Questions can be directed to this address, 702/784-6031, 702/784-1419 (FAX) or seemann@hrs.ucr.edu (internet).

The University of Nevada is an Equal Opportunity/Affirmative Action employer and does not discriminate on the basis of race, color, religion, sex, age, creed, national origin, veteran status, physical or mental disability, and in accordance with University policy, sexual orientation, in any program or activity it operates. The University of Nevada employs only United States citizens and aliens lawfully authorized to work in the United States.

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**NUCLEAR MAGNETIC RESONANCE SPECTROSCOPY**

The Macromolecular Structure & Dynamics Division (MS & D) of the Molecular Sciences Research Center (MSRC) at Battelle, Pacific Northwest Laboratories (PNNL) invites applications for a Staff Scientist in the area of nuclear magnetic resonance spectroscopy. The position requires a PhD in chemistry, biochemistry or related science, postdoctoral experience, and an outstanding record of accomplishment in research. The rank of the position is open but more senior applicants are preferred. The successful candidate will be expected to establish an internationally recognized program of research in structural studies of proteins using state of the art NMR techniques and to successfully compete for external sources of research funds. Novel instrumentation will be available for research, including a 1 GHz NMR spectrometer, in addition to 500 MHz and 750 MHz NMR spectrometers. Excellent opportunities exist for collaborations across the research centers of the Laboratory.

The MSRC is one of eight centers at PNNL and is dedicated to advancing the molecular sciences. The MSRC is also developing, and will manage, the Environmental and Molecular Sciences Laboratory (EMSL), which will be an international focal point of molecular science research with emphasis on environmental, waste management and health-related issues. Applications should submit curriculum vitae, reprints, statement of current and planned research interests and letters from at least three references to: Battelle, Pacific NW Laboratories, Dept 941016 CSP, PO Box 999, MS: K8-21, Richland, WA 99352. PNNL is an equal opportunity employer. Women, minorities and disabled persons are encouraged to apply.
BS/MS Bio-Organic Chemist

This is an exceptional opportunity for a highly motivated individual who desires to be an integral member of a multidisciplinary team in our entrepreneurial environment.

The successful individual will participate in the synthesis and characterization of drug-protein conjugates. A solid knowledge of organic chemistry and biochemistry is required. The individual must also possess strong analytical skills. Experience working with proteins and nucleosides is desirable.

TargeTech, Inc. is committed to providing a nurturing environment for creative, highly motivated scientists by offering competitive salaries, a comprehensive benefits package, and equity participation in the company. Submit resumes to: TargeTech, Inc., Human Resources, 290 Pratt Street, Meriden, CT 06450. We are an equal opportunity employer.

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PROFESSOR AND CHAIR
DEPARTMENT OF CHEMISTRY

The Ohio State University invites nominations and applications for the position of Chair of the Department of Chemistry. The applicant must demonstrate suitable administrative and academic leadership skills for this position, which will be open in October 1994. The Ohio State University is a major comprehensive University. The Department of Chemistry, with 40 faculty, has 301 graduate and 35 postdoctoral students, and has extensive research programs in most areas of chemical research. Applicants, who must have established strong research and teaching credentials in any area of Chemistry, should write to: Professor Terry Miller, Chairman, Search Committee, Department of Chemistry, The Ohio State University, 120 W. 18th Avenue, Columbus, Ohio 43210-1173 (614-292-2569). Please include a curriculum vitae and the names and addresses of three or more references. Applications/nominations received by January 15, 1994, will receive full consideration. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

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NORTHERN ARIZONA UNIVERSITY
DEPARTMENT OF BIOLOGICAL SCIENCES

COWDEN CHAIR OF MICROBIOLOGY

The Department of Biological Sciences is pleased to announce the establishment of the Cowden Chair of Microbiology. This endowed chair is to be occupied by an established teacher/scholar with an active research program in an area of microbiology related to food processing or production. For example: (i) fungal, bacterial or viral interaction, (ii) use of microorganisms as biocides, (iii) genetic engineering or (iv) other areas of current research interest. Appointment at the rank of Full Professor is anticipated. Teaching responsibilities will include development of microbiology courses in the area of expertise and participation in existing foundational courses in cellular, molecular and microbial biology at both the undergraduate and graduate level. Review of applications will begin 15 December, 1993 and will continue until the position is filled.

ASSISTANT PROFESSORS

The Department of Biological Sciences at Northern Arizona University invites applications for three tenure-track Assistant Professors to commence August 1994 in the following areas: Cellular Biology/ Electron Microscopy: The area of research specialization is open but should include ultrastructural analyses. Teaching includes a laboratory-based course in electron microscopy for advanced undergraduate and graduate students, as well as participation in the undergraduate and graduate cellular and molecular biology program. Plant Physiology: Teaching includes a course in vascular plant physiology, introductory plant biology, general biology, and the development of a graduate course in the area of specialization. Environmental Microbial Ecologist: This position is shared between the Department of Biological Sciences and the Center for Environmental Sciences and Education. Teaching includes environmental microbial ecology, bioremediation, and the development of a graduate course in the area of specialization.

The Department of Biological Sciences enjoys a diversity of research interests that spans the general areas of cellular and molecular biology, ecology and behavior, and physiology. Numerous opportunities for collaborative research exist. The successful candidate should have a demonstrated competency in teaching. Ph.D. required in area of application or related field. Preference will be given to candidates with postdoctoral experience. Candidates will be expected to establish a strong extramurally funded research program, collaborate with faculty in interdisciplinary research, and help direct biology graduate students. Applications for each position should include a current vitae, statements of research and teaching interests, and three letters of recommendation. Review of applications will begin 15 December, 1993 and will continue until the positions are filled. Please forward application materials to: Biology Search Committee, Department of Biological Sciences, Box 5640, Northern Arizona University, Flagstaff, AZ 86011. Northern Arizona University is an Equal Opportunity/Affirmative Action Employer.

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FACULTY POSITION
MOLECULAR CARDIOVASCULAR BIOLOGY

The newly formed Division of Molecular Cardiovascular Biology housed within the Department of Pediatrics, Children's Hospital Medical Center is seeking applications for two tenure-track positions to be filled at the Assistant Professor level. The successful candidates will have the Ph.D., M.D. or M.D.-Ph.D. degree and at least two years of post-doctoral research experience. Holders of the M.D. degree will have the opportunity to assume some clinical duties within the Division of Pediatrics, Division of Cardiology, but will be expected to devote at least 80% of their time to building a research program. Division faculty are encouraged to participate in the multidisciplinary graduate program in Developmental Biology and will have the opportunity to participate in graduate student training and the teaching programs of the University of Cincinnati Graduate School. Areas of research emphasis include but are not limited to: mammalian development, basic studies in cardiovascular structure and function, and molecular and genetic analyses of normal and abnormal heart function. Individuals able to take advantage of the significant investments in the transgenic and gene targeting technologies made by the Children's Hospital Research Foundation and the University of Cincinnati, College of Medicine are particularly encouraged to apply. Applications should include a comprehensive curriculum vitae and the names of three references. A summary of past research and future plans for an independent research program should be included. Applications should be sent to: Jeff Robbins, Children's Hospital Medical Center, Children's Hospital Research Foundation, Division of Molecular Cardiovascular Biology, TCHR, Room 3057, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.

In consideration of our children the Medical Center is committed to a smokefree workplace. Children's Hospital Medical Center conducts pre-employment drug screening as part of a comprehensive program to maintain a drug free workplace. Equal Opportunity Employer M/F.
The Cornell University Graduate School of Medical Sciences announces a
Summer Internship for Minority College Students

"The Marcus M. Reindenberg Gateway to Science Program"

The Cornell University Graduate School of Medical Sciences, located in New York City, is a semi-autonomous component of the Graduate School of Cornell University at Ithaca. It provides training leading to the Ph.D. degree in specific areas of the biomedical sciences. The school, which is composed of faculty drawn from Cornell University Medical College and the Sloan-Kettering Institute, has established a summer internship program for training under-represented minority college students in the biomedical sciences. The aim of the program is to awaken and foster an interest in biomedical research and education. Students will gain hands-on research experience under the guidance of a faculty member. This program is open to students who have successfully completed their freshmen, sophomore, or junior years in college.

The program will consist of a seminar course on opportunities and career tracks for doctorates in the biomedical sciences, accompanied by semi-independent research projects in laboratories at either Cornell University Medical College or Sloan-Kettering Institute. Dates for the program are: June 13 to August 5, 1994. Deadline for applications is February 14, 1994.

Subsidized housing and a stipend of $3,000.00 will be provided for the 8-week program. Students must have medical insurance for the period involved. Applicants must be U.S. citizens or have permanent visa status.

The application procedure is as follows:

1. No separate application form is required. However, submit a one-page, typewritten, essay in which you introduce yourself, describe your background and how you developed an interest in a scientific career. Also, include home and school addresses, telephone numbers where you can be reached and your social security number.

2. We require the official transcript, mailed directly from your school, giving all your grades. Preference is given to students with a grade point average of B or above.

3. We require a letter of recommendation from your college advisor, or one member of your science faculty who has taught you and who will give us a statement of your motivation and potential for scientific studies.

4. These items should be mailed to:
Ms. Françoise Frézys, Program Coordinator
Cornell University Graduate School of Medical Sciences
445 East 69th Street, New York, NY 10021
Phone: 212-746-6120
Fax: 212-746-8906

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**TROPHIX PHARMACEUTICALS, INC.**

"The Integrated Approach to Brain Disease"

Trophix Pharmaceuticals, Inc. (TxRx) is a development stage biopharmaceutical company devoted to developing novel therapeutics for neurological and neuropsychiatric disorders by integrating the latest advances in cell and molecular neurobiology, neuropharmacology and medicinal chemistry. Career opportunities with TxRx exist for scientists in the following areas:

**PHARMACOLOGY**

**Director of Pharmacology:** The candidate should have a Ph.D. in Pharmacology with 5 years or more experience in molecular or neuropharmacology. Industry experience in drug development is essential.

**Research Pharmacologists:** Requirements are a Ph.D. degree and 1-3 years relevant postdoctoral experience in molecular pharmacology or neuropharmacology.

**MOLECULAR BIOLOGY**

**Director of Molecular Biology:** The candidate should have a Ph.D. degree in eukaryotic molecular biology and 5 years or more of broad experience in the field. Biotechnology experience is highly desirable, but not essential.

**Research Molecular Biologists:** Requirements are a Ph.D. degree and 1-3 years of relevant postdoctoral experience in eukaryotic molecular biology.

**CELL BIOLOGY**

**Research Cell Biologists:** Requirements are a Ph.D. and 1-3 years experience in cell biology. Background in cellular neurobiology desirable, but not essential.

**ORGANIC CHEMISTRY**

Several positions are available at the BS/MS and Ph.D. levels for scientists with experience in synthetic organic chemistry. Pharmaceutical experience is desirable, but not essential. Facilities for chemistry are excellent.

TxRx is located in Morris Township, N.J., a pleasant wooded area of central New Jersey with outstanding communities, located only 35 miles from New York City. TxRx is an exciting entrepreneurial company offering an outstanding scientific environment and an excellent compensation and benefits package.

Please send all resumes with salary history to:

Human Resources
Trophix Pharmaceuticals, Inc.
89 Headquarters Plaza
North Tower - 14th Floor
Morristown, NJ 07960
PREDICTORAL TRAINING IN NEUROSCIENCE
INTERDISCIPLINARY PhD PROGRAM IN NEUROSCIENCE
LOUISIANA STATE UNIVERSITY MEDICAL CENTER
SCHOOL OF MEDICINE
NEW ORLEANS

Applications are now being accepted for the interdiscipli-
ary PhD Training Program in Neurosci-
ence. Established in 1992, this program offers
intensive training in neuroscience. Research
conducted at the LSU Neuroscience Center spans
both behavioral neuroscience and molecular neu-
robiology, and includes the study of genes, cells,
and human behavior. Generous stipend support
is available on a competitive basis. Applicants
should have a strong GPA in science
courses, and a combined (verbal and quan-
titative) GRE score of at least 1200. Three letters
of reference are required. Students should have
taken courses in Biology, Chemistry (including
Organic), Physics, Computer Science, and Math-
ematics (Calculus). Highly qualified individuals
should send inquiries to: Dr. Jelle Atema, Chair,
New Orleans, LA 70112, Telephone: (504) 588-6700,
Fax: (504) 588-6801. EOE/AA.

Assistant Professor
MARINE INVERTEBRATE BIOLOGY

The Department of Biology at Bates College, a
selective liberal arts college with an enrollment
of 1540 students, has a tenure track faculty position open in Marine Invertebrate
Biology beginning in September of 1994. Teaching responsibilities include inverte-
brate zoology, electives in area of specialization, and participation in the population biology
and ecology portions of our core curriculum. The successful candidate will be required
to conduct a vigorous research program involving Bates undergraduates. A Ph.D. is re-
quired and post doctoral research is desirable. Applicants should provide a cover
letter indicating teaching and research interests and experience, curriculum vitae, and three letters of recommendation to: MARINE BIOLOGY SEARCH COM-
MITTEE, c/o Secretarial Services, Andrews Road, 7 Lane Hall, Bates College, Lewiston,
Maine 04240. APPLICATION DEAD-
LINE: January 1, 1994. BATES COL-
BAGE values a diverse college community and seeks to assure equal opportunity through
a continuing and effective affirmative action program. We welcome applications from
women and minorities.

Department of Biology
Bates College
Lewiston, Maine 04240

EMINENT SCHOLAR CHAIR IN PROTEINS
THE OHIO STATE UNIVERSITY

The Department of Biochemistry at The Ohio State University invites applications and nom-
inations of distinguished individuals for an Eminent Scholar position at the rank of Professor. The Eminent Scholar position is an Endowed
Chair created by the Governor and the Board of Regents of the State of Ohio. We seek an individual who has an outstanding record and an imaginative and highly productive research pro-
gram in the area of protein biochemistry, investig-
ing significant problems in protein structure-
function relationships. Representative areas
of interest include protein structure and sta-
bility, protein folding, DNA-protein interactions,
macromolecular assembly, hormone-receptor interactions, and signal transduction. The suc-
cessful candidate will be expected to conduct an active, externally funded research program includ-
ing graduate students. He or she will be expected to teach an introductory course in Marine Biology at least one
year before July 1, 1994. Interested individuals should submit a resume and a concise
statement of research interests and accomplishments to: Dr. George Marzluff, Chairman, Department of Biochemistry, The Ohio State
University, 484 West 12th Avenue, Columbus, OH 43210 U.S.A.

BOSTON UNIVERSITY
TWO TENURE-TRACK BIOLOGY POSITIONS

1. ASSISTANT PROFESSOR OF AQUATIC/MARINE BIOLOGY

The Boston University Marine Program of the Biology Department at Boston
University is seeking an Assistant Professor, tenured or tenure-track, with
interests in modern problems in aquatic/marine biology to start as early as
February 1, 1994. The successful candidate is expected to teach at least two
years of postdoctoral experience and will be expected to conduct an active,
externally funded research program including graduate students. He or she
will also be expected to teach an advanced course in Marine Biology at
Boston and a one-month intensive aquatic environmental biology course in
Woods Hole. In addition he or she will be responsible for advising Marine
Science majors and be involved in their senior research projects. Salary and
benefits are competitive for conducting a first-rate research and teaching
program. Please send a letter of interest (with past research and teaching
experience and future research and teaching plans), curriculum vitae with
the names and phone numbers of at least three references, and reprints of
important published works to Dr. Jelle Atema, Chair, Aquatic/Marine Biology
Search Committee, BUMP, MBL, Woods Hole, MA 02543 before December
1, 1993.

2. ASSISTANT PROFESSOR OF ENVIRONMENTAL BIOLOGY/ECOTOXICOLOGY

The Department of Biology and the Environmental Studies Program at Boston
University invite applications for a tenure-track position at the assistant
professor level to begin in September 1994 in the general areas of eco-
toxicology and environmental biology. The position requires the development of a
successful, externally funded research program and participation in teaching
program in fields leading to the B.S., M.A., and Ph.D. degrees. The individual
should have a strong background in aquatic biology. We are seeking a
energetic junior faculty member to complement ongoing research in the
Biological Department in biogeochemical cycling, freshwater ecosystems,
con- 
ervation biology, and physiological ecology. The research focus of the
successful applicant could span the range from ecosystem ecology/freshwater
ektoxicology to organism/endangered species ecology. The applicant
would be expected to conduct an undergraduate course in ecotoxicology, assist in the
general undergraduate program, and teach a graduate course in environ-
mental biology. Interested individuals should submit a complete resume,
including teaching and research interests, and three letters of recommen-
dation to: Dr. Peter Bazan, Chair, Department of Biology, Boston University, Boston, MA 02215. Inquiries by email to
laitha@biology.bu.edu.

The Biology Department at Boston University has 30 faculty members in all
areas of biology, including cell, molecular, developmental and neurobiology,
as well as ecology, behavior, and evolution. Women and minorities are
couraged strongly to apply. Boston University is an equal opportunity/affirmative
action employer.
Assistant Professor
Center for Neuroscience/Division of Biological Sciences
Position Description
The University of California at Davis has extended the application period for outstanding individuals in developmental neurobiology to apply for faculty appointment as Assistant Professor in the Center for Neuroscience and the Division of Biological Sciences. This is a full-time, nine-month tenure track position. We seek candidates who use molecular and cellular approaches to address problems in the development of the nervous system. Appropriate research areas include establishment and maintenance of specific connections in the nervous system, mechanisms that underlie neuronal differentiation, and development. Preference will be shown to applicants who have both evolutionary and functional perspectives.

The Center for Neuroscience is a campus-wide unit involving faculty from five different colleges and schools at UC Davis. The faculty’s fields of research range from a systems approach to cellular neurobiology. The Center intends to hire in candidates who are committed to the highest standards of scholarship and professional activities, and to the development of a campus climate that supports equality and respect for difference based on gender, cultural ethnicity, level of disability, and sexual preference. The University of California is an affirmative action/equal opportunity employer.

This position is open until filled, but applications should be received by November 30, 1993 to be assured of full consideration. Applicants should send a curriculum vitae and the names of at least three references to:

Michael S. Gazzaniga
Director, Center for Neuroscience
University of California
Davis, CA 95616

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Pharmacologist

BIOFOR requires a Ph.D. level pharmacologist with broad-based training or experience in the pharmaceutical industry to guide our expanding research. The successful candidate will be responsible for the design and implementation of drug discovery strategies for our current programs and will also be responsible for positioning our future programs. We are looking for scientists with drug discovery knowledge and experience in the area of opportunistic infections, inflammation and/or cardiovascular diseases.

BIOFOR focuses its efforts on the use of computational techniques including its proprietary MultiCASE system and broad depth of efficacy and toxicity databases to facilitate its drug design. Our goal is to identify new chemical entities for the treatment of fungal infections, inflammation, and cardiovascular diseases. We offer a competitive salary, benefits, and opportunity for professional growth.

The level of the position will depend upon the candidate’s experience. Please send resume to:

BIOFOR, Inc.
P.O. Box 629
Waverly, PA 18471

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Minority International Research
Training Grants

The Fogarty International Center (FIC) and the Office of Research on Minority Health of the National Institutes of Health announce the availability of institutional research training grants under the FIC Minority International Research Training (MIRT) program. This program provides international research training opportunities for minority undergraduate and graduate students and opportunities for international research collaboration for minority faculty members in biomedical and behavioral research.

Three-year MIRT awards will be made to U.S. colleges and universities to encourage minority students to pursue degrees and careers in the biomedical and behavioral sciences by broadening their undergraduate and graduate education and establishing linkages between U.S. scientists and institutions and established research centers abroad.

Application Receipt Date: March 16, 1994

Further information may be obtained from:

International Research and Awards Branch
Fogarty International Center
National Institutes of Health
Bldg. 31, Room B2C39
900 Rockville Pike
Bethesda, MD 20892
Telephone: 301-496-1653
Fax: 401-402-0779

N.I.H. is an Equal Opportunity Employer

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TWO POSITIONS
UNIVERSITY OF VERMONT
ASSOCIATE OR ASSISTANT
PROFESSOR
EVOLUTIONARY/BEHAVIORAL
ECOLOGY
AND
ASSISTANT PROFESSOR
SYSTEMATIC ENTOMOLOGY

The Department of Zoology invites applications for two positions, one in evolutionary ecology (Associate or Assistant level), the other in systematic and entomology (Assistant level). Applicants are expected to hold the Ph.D. degree and have postdoctoral experience. Evolutionary Ecology - Appropriate research specialties include, but are not limited to, behavioral ecology, plant-animal interactions, biodiversity issues, or tropical ecology. Systematic Entomology - Applicants must use modern systematic methods (molecular/genetical; comparative methods) in studies of terrestrial arthropods and have complementary research in areas such as evolutionary processes, natural history, population genetics, or plant-animal interactions. Position requires teaching an advanced course in entomology. Applicants interested in overseeing the university's invertebrate collections are welcomed. Positions require teaching graduate courses, mentoring graduate students, and conducting extramurally fundable research. Applicants should forward a current CV, a description of research and teaching interests, and 3-4 references and have three letters of reference submitted to: Dr. Jon J. Schall, Chair, Search Committee (state if Ecology or Systematics), Department of Zoology, University of Vermont, Burlington, VT 05405-0086 (802-656-0448). No fax applications can be accepted. Review of applications will begin on January 16, 1994. WE ESPECIALLY ENCOURAGE AND MINORITY CANDIDATES TO APPLY. THE UNIVERSITY OF VERMONT IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

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Georgetown University Medical Center
Perinatology Research Opportunities

The Department of Obstetrics and Gynecology is currently recruiting for faculty and staff positions in a unique perinatology research project funded by NICHD. If you are interested in joining a team focused on perinatal research to discover and develop new treatments, we need your expertise. The team includes MD and Ph.D. faculty, research staff, and nursing and administrative staff.

Positions are available in Maternal Fetal Medicine, Informatics, and Prenatal Diagnosis. Laboratories are being staffed for Perinatal Pathology, Reproductive Immunology, Myometrial and Cervical Biology, and Perinatal Biology. Positions available beginning in January, 1994.

In addition to a competitive salary, Georgetown University offers a comprehensive benefits package. As a member of our faculty or staff, you benefit not only from a stimulating environment on campus, but also from the vibrant and cosmopolitan city of Washington, DC, and its surrounding communities. Washington is far more than the nation’s capital and a tourist attraction. It offers numerous cultural, educational, and recreational activities. Georgetown University is an equal opportunity employer.

Interested applicants should forward letter and Curriculum Vitae to:

John T. Quenan, MD
Georgetown University
3800 Reservoir Road, NW
Washington, DC 20007
Fax: 202-687-3146
INTERNATIONAL GRADUATE STUDENT FELLOWSHIP PROGRAM
at the
AMERICAN MUSEUM OF NATURAL HISTORY’S CENTER FOR BIODIVERSITY AND CONSERVATION

AMNH invites applications from non-U.S. citizens to enter a new doctoral program under the auspices of the Museum’s Center for Biodiversity and Conservation. Students will have an outstanding opportunity to study a diversified curriculum in systematics, biodiversity, conservation, and public policy. Through their training, graduates of the program will advance environmental research and conservation programs in their countries.

Students must simultaneously apply to the Museum and to one of 4 cooperating universities depending on field of interest. Students should have a bachelors degree, and must fulfill university admission requirements which may include TOEFL. Students will receive travel assistance, full fellowship support for 12 months, and tuition will be fully paid; support is guaranteed for 4 years if the student remains in good standing. The student will be under the direction of a Museum curator, and attend classes and seminars at both the Museum and their chosen university.

Applicants should contact the Office of Grants and Fellowships to discuss their interests, background and eligibility for the Program. The Museum’s deadline date for full application on prescribed forms is January 1, 1994, and this will include a resume of your academic background, work experience, research interests, and the names of three referees familiar with your work. The universities participating in this Program have separate deadline dates and application procedures. For this and further information please contact:

Office of Grants and Fellowships
American Museum of Natural History
Central Park West at 79th Street
New York, NY 10024
Telephone: 212-769-5467
Fax: 212-769-5468
E-mail: bynum@amnh.org

Consortium for a Strong Minority Presence at Liberal-Arts Colleges

MINORITY SCHOLAR-IN-RESIDENCE PROGRAM

With a view toward encouraging African-American, Asian-American, Hispanic-American, and Native American scholars to consider teaching and research careers at small liberal-arts colleges, the Consortium for a Strong Minority Presence at Liberal-Arts Colleges, an association of selective undergraduate institutions, has established the Minority Scholar-in-Residence Program. Applications are invited for the dissertation fellowship program or the post-doctoral fellowship program in all disciplines of the liberal arts and engineering. Applicants should be working toward the Ph.D. or the M.F.A. degree, or should have been awarded the degree no more than five years before application.

The Minority Scholar-in-Residence will receive a stipend equal to the typical salary for beginning instructors or assistant professors. Scholars will be expected to do some teaching and research, and to participate in other activities at the host institution under the supervision of a mentor. It is hoped that the scholars will, upon completion of their residency, qualify for tenure-track appointments at the host institution or a similar institution.

Scholars must be citizens of the United States and have had no more than five years of teaching or relevant work experience before receiving the award. Ideally, applicants for the dissertation fellowship program should have completed their research before the beginning of the fellowship year.

Among the member institutions of the Consortium, the following offer to sponsor minority scholars during the 1994-95 academic year: Bates College, Bowdoin College, Bryn Mawr College, Colby College, Colorado College, Davidson College, Franklin & Marshall College, Grinnell College, Haverford College, Macalester College, Oberlin College, Occidental College, Pomona College, Reed College, Rhodes College, Swarthmore College, Vassar College, Wellesley College, and Wheaton College.

The brochure describing the program and an application form may be requested by writing to:

Frank Thomas, Special Assistant to the President, Grinnell College, P.O. Box 805, Grinnell, IA 50112-0610

Application deadline: December 6, 1993

U.S. Department of Energy
Office of Health and Environmental Research

Human Genome
DISTINGUISHED
Postdoctoral Fellowships

Research Opportunities in Biology, Chemistry, Physics, Mathematics, Engineering, and Information Science

- Research related to Human Genome Program
- Tenable at various national and university laboratories
- Stipends $37,500
- Doctoral degree received after April 30, 1991
- U.S. citizens or permanent resident aliens eligible
- Deadline - February 1, 1994
- Information and applications:

Human Genome Postdoctoral Fellowships
Science/Engineering Education Division
Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(415) 576-9975

NIH Research Fellowship Position

The Laboratory of Molecular Biology is studying the alterations of immunological cell function by external agents. We are presently assessing the biochemical activities of HIV accessory proteins and their capacity to modify immunological responses. A post-doctoral opening within this laboratory is now available and can provide an opportunity for a highly capable individual to join the NIH community and to explore the biochemical mechanisms of HIV pathogenesis. Stipend range is $25,000 to $36,000, depending on training and experience. Candidates with experience in gene transfer and retrovirology or signal transduction would be given preference. Please forward curriculum vitae and the names of three references to:

Dr. Jon W. Marsh, Chief
Unit of Lymphocyte Function Laboratory of Molecular Biology
National Institute of Mental Health
Building 36, Room 1B08
9000 Rockville Pike
Bethesda, Maryland, 20892

NIH is an Equal Opportunity Employer
FELLOWSHIPS IN MOLECULAR BIOLOGY

The Molecular Biology Program at the University of Missouri-Columbia is accepting applications for graduate and postdoctoral fellowships. The program is designed for young scientists who want to expand the breadth and depth of their molecular biology studies through a dynamic interdisciplinary plan.

Our faculty are drawn from departments such as animal sciences, biochemistry, biological sciences, molecular microbiology and immunology, pharmacology, plant pathology, physiology, veterinary pathology, and veterinary microbiology. Our facilities support protein purification and sequencing, oligonucleotide synthesis and DNA sequencing, monoclonal antibody production and cell sorting, transgenic animal production, immunocytochemistry, in situ hybridization, and advanced imaging technologies. Plus, the campus offers facilities for electron microscopy; NMR spectroscopy; analysis for proteins, carbohydrates, lipids, and inorganic; and neutron scattering at one of the nation’s largest research reactors.

Four-year graduate awards are $14,000 per year, plus full fee and tuition waivers. Postdoctoral fellowships are competitive two-year awards of $22,000 per year. To receive our information packet, call 314/882-2816 or send an e-mail note to MolBioDGrf@mizzou1.missouri.edu (INTERNET).

Travel expenses will be paid to all qualified applicants who visit the campus.

Applications are due December 1, 1993, for the August 1994 appointment. Applications should include a resume, the names of three references, and a statement of the type of research activity you would enjoy undertaking at Arecibo. Address applications to:

Dr. Donald B. Campbell
Associate Director, NAIC
Cornell University
Space Sciences Building
Ithaca, NY 14853-6801

NAIC is operated by Cornell University under a cooperative agreement with the National Science Foundation.

AMERICAN MUSEUM OF NATURAL HISTORY RESEARCH FELLOWSHIPS AND GRANTS

FELLOWSHIPS—Research/Museum Fellowships are available to advanced postdoctoral researchers and established scholars starting in summer and fall 1994. The fellowships support independent research in association with resident staff. Areas include vertebrate and invertebrate zoology, paleozoology, anthropology, mineral sciences, and the field of museum education as it relates to museums or planetariums. This year, an additional fellowship in marine zoology and/or paleontology is available and will be funded by the Lerner-Gray Fund for Marine Research. All fellowship applications, including Chapman (ornithology) and Lerner-Gray, should be postmarked by January 15, 1994.

GRANTS—Research grants are available to advanced postdoctoral candidates and recent postdoctoral researchers in the fields of zoology and paleontology. Awards average $700. Postmark dates vary for each grant program:

- Frank M. Chapman (Ornithology) — January 15, 1994
- Theodore Roosevelt (North American Fauna) — February 15, 1994
- Lerner-Gray (Marine Zoology) — March 15, 1994

Request information and application forms from:
The Office of Grants and Fellowships,
American Museum of Natural History,
Dept. H., Central Park West at 79th Street,
New York, NY 10024.
POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

A postdoctoral position is immediately available to investigate the molecular biology of marine platellet storage pool proteins and their hemostatic roles. The focus will be on the role of defective or deficient cytoskeletal proteins in causing these mutations. I am seeking an enthusiastic candidate who has experience in tissue genetics and in molecular biology techniques including polymerase chain reaction, Southern blot analysis, cDNA and genomic library construction, Northern blot analysis and sequencing. Applicants including curriculum vitae, list of publications, summary of current research efforts and names and addresses of three references should be sent to: Dr. Robert M. Greene, Children's Mercy Hospital, Biomolecular Laboratories, 2801 Wyandotte Avenue, Kansas City, MO 64108. For further information please call Dr. R.M. Greene at 816-235-8866. Equal Opportunity Employer/Affirmative Action Plan.

TWO POSTDOCTORAL POSITIONS IN CANCER RESEARCH

The University of Rochester Cancer Center invites applications for postdoctoral positions in an NCI-supported research training program. Projects include mechanisms of oncogene function and metastasis, growth factor and hormonal regulation of gene expression, activation of immune response by tumors, tumour immunology, disease modeling in transgenic mice, investigation of cell cycle regulation using flow cytometry, antimouse drug inhibition of cell cycle, molecular mechanisms of drug resistance, and control of DNA synthesis, repair, and protein synthesis in tumor viruses and cells. Please send resume and three references to: Dr. Russell Hill, Training Program, University of Rochester Cancer Center, 601 Elmwood Avenue, Box 704, Rochester, NY 14642. U.S. citizenship or permanent residency required. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWS, THE MONTEREY BAY AQUARIUM RESEARCH INSTITUTE (MBARI) invites applications in the fields of biological, chemical, or physical oceanography; marine geology; and marine biology. We are developing the field of marine biology. Applications are invited for the development of better instruments, systems, procedures and methods for the support of scientific research. Please send curriculum vitae; names and addresses of at least three references; transcripts of undergraduate and graduate academic records; a succinct description of doctoral research; and a concise statement of research interests, including the nature of the research project to be pursued at MBARI by 15 January 1994 to: FFP, MBARI, 160 Central Avenue, Pacific Grove, CA 93950. Equal Opportunity Employer.

MOLECULAR MECHAN ISMS OF BIRTH DEFECTS

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE

Position available to investigate molecular and cellular mechanisms of birth defects with focus on cellular signal transduction mechanisms. Particular emphasis directed toward clarification of interactions among growth factors, protein kinases and nuclear transcription factors in regulating gene expression and cell differentiation during normal and abnormal embryonic development. Strong background in biochemistry, cell and/or developmental biology required; expertise in molecular methods a plus. Inquiries may be directed to: Dr. Robert M. Greene, Molecular Determinants of Birth Defects Training Program, Jefferson College Medical College, 1030 Locust Street, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.


POSTDOCTORAL RESEARCH ASSOCIATE

The USA/ARS, Orlando, Florida, is seeking a research associate to develop IPM and biological control techniques to deal with the sweet potato whitefly. Candidates must have Ph.D.; experience in plant/insect interactions, biological control and IPM methods; experience with IPM in the field; and experience with field experimentation. Salary is commensurate with experience ($38,623 to $43,712); 2-year appointment. Contact: Dr. R. T. Mayer, USDA, ARS, 1125 Cameron Road, Orlando, FL 32803. (Telephone: 407-897-7804). Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATES

Opportunities for postdoctoral research training and experience in the Department of Microbiology and Immunology, East Carolina University School of Medicine, are currently available. Areas include: regulation of cytokine and cognate receptor gene expression in hematopoietic cells (Dr. James A. Muirhead); regulation of complement components, complement function, and immune response in rodent models of autoimmune disease (Dr. Mark D. Manne); and regulation of glucose transport by oncogenes and mitogens (Dr. Martyk K. White). Additional areas may become available. Salaries with fringes are nationally competitive. Applicants should have the Ph.D. degree with training and experience in relevant areas of microbiology, molecular genetics, and immunology. Send cover letter, complete curriculum vitae, publication excerpts, and the names, addresses, and telephone numbers of three references to: Postdoctoral Screening Committee, Department of Microbiology and Immunology, East Carolina University School of Medicine, Greenville, NC 27858-4354.

East Carolina University is an Affirmative Action/Equal Opportunity Employer. Federal law requires proper documentation of eligibility to work at time of employment. It is requested this documentation be included with your application.

SENIOR RESEARCH ASSOCIATE position available immediately to study the molecular and cellular basis of psychiatric disorders. Emphasis of research is on the role of brain neurotransmitters in the neuroetiology of mood disorders and in the mechanism of action of drugs used to treat these disorders. Candidates should have a Ph.D. and/or M.D. with experience in biochemistry, biological psychology, molecular biology, or pharmacology. Salary is competitive and commensurate with experience. Send or FAX curriculum vitae, a statement of research and future research interests, and names of three references to: Gregory A. Ordway, Ph.D., Department of Psychiatry and Human Behavior, University of Alabama Medical Center, 2800 North State Street, Jackson, MS 39216-4505; Fax: 601-984-5885. Equal Employment Opportunity Employer, F/F/D/V.

RESEARCH ASSOCIATE/ASSISTANT SCIENTIST

Kraeitzer Institute of Cardiology
Indiana University School of Medicine
Indianapolis, IN 46202-4800

A position is available at the Assistant Scientist level. The candidate must have postdoctoral experience in molecular biology with particular expertise in protein expression and analysis of insect and/or mammalian proteins. Work will involve research on selected enzymes of the vascular wall. Please send curriculum vitae to: David R. Hathaway, M.D., Director, Division of Research & The Kraeitzer Institute of Cardiology Indiana University School of Medicine Indianpolis, IN 46202-4800 Indiana University is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE: Position available for postdoctoral fellow experienced in viral immunology. Support for retroviral pathogenesis studies leading to independent postdoctoral position. Send CV and names of 2 to 3 references to: Paul M. Hoffman, M.D., Research Service (151), Veterans Administration Medical Center, 4101 East Westinghouse Street, Baltimore, MD 21201. Equal Employment Opportunity.

RESEARCH ASSOCIATE

The University of Maryland, Division of Surgical Critical Care is currently seeking a Ph.D. with a strong background in the physiology of shock and trauma and two years of relevant postdoctoral experience. Send an outline of current expertise and experience in hormone measurements, especially radioimmunoassay and fluoresence imaging required. This is a split appointment at the Research Associate level. Excellent fringe benefit package and salary commensurate with experience.

Curriculum vitae and names of three professional references should be submitted to: Donald S. Gann, M.D., Professor and Head, Division of Surgical Critical Care, University of Maryland Hospital, c/o Rachel L. Reilly, Personnel Officer, 405 West Redwood Street, Baltimore, MD 21201. Equal Opportunity Employer/M/F/H/V. Minorities and females are encouraged to apply.

MEDICAL WRITER/EDITOR

Strong general biomedical background; flair for writing, ability to write scientific literature and learn new subjects quickly. For medical writing firm that writes articles, lecture slides, videos, and other education/al/promotional materials for pharmaceutical clients. Send résumé to: Dr. S. Phillips, Project House, One University Plaza, Suite 210, Hackensack, NJ 07601.

IMMUNOLOGISTS: Expanding bulk pharmaceutical manufacturing facility is seeking a senior M.S. and/or junior Ph.D.-level immunologist/immunochemist. Applicants are expected to have familiarity with monocular and/or polyclonal antibody production as well as ELISA and RIA formatting. Must be able to demonstrate exceptional record-keeping, written, and oral communications skills. Previous experience in an FDA-regulated environment is plus. Send résumé to Director Human Resources: Advanced ChemTech, Inc., 565 Fem Valley Road, Louisville, KY 40228-1075. Equal Employment Opportunity Employer.

ORNITHOLOGIST

The Illinois Natural History Survey invites applications for a grant-supported full-time position. We seek applications from individuals with experience, skills, and interests in conducting extensive surveys and censuses of birds in the State of Illinois. We are interested in assessing the potential for adverse effects on existing avian populations and habitats owing to various construction projects. Individuals with a research background or experience in ornithological work as well as familiarity with avian ecology or systematics are required. Experience with migration studies is desirable. $31,000 to $34,000 per annum. Successful applicant will be stationed in Champaign on the campus of the University of Illinois. For full consideration, please submit letter of application, curriculum vitae, and names of at least three references by 24 December 1993 to: Ms. Jacqueline Sanders, Personnel Officer, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Telephone: (217) 344-7790. The Illinois Natural History Survey is an Equal Employment Opportunity Employer and an Americans with Disabilities Employer without regard to race, age, religion, color, national origin, sex, or disability.

NEUROSCIENCE Ph.D. at the University of Michigan, Section of Emergency Medicine. Active areas of research in brain injury, shock, and focal/global cerebral ischemia. Collaboration/ joint appointments with basic science departments are encouraged. Send curriculum vitae to William G. Barsan, M.D., University of Michigan Medical Center, Emergency Department, Room 3854, 4100 East Medical Center Drive, Ann Arbor, MI 48109-0011. Telephone: (313) 936-6202.
POSITIONS OPEN

POSTDOCTORAL POSITION, RNA SPlicing available to study RNA binding proteins, RNA-protein interactions, small ribonucleoproteins (snRNPs) and pre-mRNA splicing in vivo (see Genet Dev. 6:1536, 1992). Experience in protein purification and biochemistry essential. Send curriculum vitae and names of three references to: Dr. Donald Rio, Department of Molecular and Cell Biology, 401 Life Sciences Research Center, P.O. Box 296, Woods Hole, MA 02543. We acknowledge all applications. A smoke-free institution. Equal Opportunity Employer.

ECOLOGIST/PLANT GEOGRAPHER/BOTANIST WITH EMPHASIS ON REMOTE SENSING

The Woods Hole Research Center is seeking a scientific staff member with a P.D. in plant ecology, botany, or geography who has an interest in the use of remotely sensed imagery, especially satellite imagery, to appraise land uses and changes in land uses, specifically a satellite-based appraisal of the area of forests and changes in area. Current focus on northern Asia. Interest and experience with geographical information systems are desirable. Appointment at ASSISTANT or ASSOCIATE SCIENTIST level. Deadline: December 13, 1993. Salary based on experience. Send letter, resume and list of three references to: Dr. L.S. Meinhold, The Woods Hole Research Center, P.O. Box 296, Woods Hole, MA 02543. We acknowledge all applications. A smoke-free institution. Equal Opportunity Employer.

ORGANIC SYNTHETIC CHEMIST. Postdoctoral research to design metal complexes for selective protein recognition. Send resume and names of three references to: Professor H. Arnold, Division of Chemistry and Chemical Engineering 210-41, California Institute of Technology, Pasadena, CA 91125. Caltech is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women and minority candidates are welcomed.

RADIOCHEMIST

Qualifications: Nuclear Chemist or Radiochemist. Position and salary dependent on experience and qualifications. Candidate must have Ph.D. degree with experience in working with high levels of radioactive materials. Background in labeling with radio-halogen is desirable. Work entails labeling monoclonal antibodies with astamiine for radioimmunoaggregation of cancer. Research work will be performed in collaboration with Dr. W. Eckelman, Otto Gansow and Thomas Waldmann at NIH.

Send curriculum vitae, or for further information contact: Ms. Jean Decker, Metabolism Branch, WCI National Institute of Health, Building 10, Room 4N11A, Bethesda, MD 20892. Telephone: 301-496-1898
National Institute of Health, Public Health Service, NIH is an Equal Opportunity Employer.

STAFF SCIENTIST

National nonprofit organization of biomedical research societies with headquarters in Bethesda, Maryland, invites applications for a Program Staff Scientist with its Life Sciences Research Office. The candidate will assist with preparation of the Third Scientific Report on National Nutrition Monitoring under terms of a 21-month contract. Preferred candidates will have an advanced degree in nutrition/epidemiology. The position requires demonstrated knowledge of the National Nutrition Monitoring and Related Research Program and expertise in nutrition monitoring data, analysis, and interpretation. The individual must have demonstrated experience in scientific report writing. Deadline for receipt of application is December 10, 1993. Please forward curriculum vitae with a cover letter to: FASEB, Human Resources, 9650 Rockville Pike, Bethesda, MD 20814-3998. An Equal Employment Opportunity Employer.

RESEARCH UPDATE

A commitment to top talent and technology puts Cyanamid at the forefront of Biotech Research.

At the Agricultural Research Division of American Cyanamid we’re investing in the talent, technology and facilities that will ensure our continued success. Our new, on-site Process Development facility further enhances the research capabilities at our 640 acre, campus-like headquarters in Central New Jersey.

Senior Research Manager,
Biochemical Process Development

We now seek a highly motivated Manager to collaborate on leading-edge Biotech Research that’s being conducted at research facilities worldwide. You will need a proven ability to manage multi-site staffs and projects, and interface effectively with our global manufacturing network. Your background must include significant experience in the development and scale-up of fermentation and downstream processes utilizing natural and recombinant systems. A Master’s degree or PhD in Chemical Engineering or Biochemical Engineering is preferred.

American Cyanamid Company offers an excellent compensation and benefits package which includes tuition reimbursement, 401k savings plan, flex-time work schedules and a location convenient to both New York City and Philadelphia. We invite you to forward your resume and salary requirements to: Employment Office, Dept. FLS, American Cyanamid Company, Agricultural Research Division, P.O. Box 400, Princeton, NJ 08543-0400. An Equal Opportunity Employer.

Environmental Science

Two faculty positions have been created in the College of Natural Sciences at the University of Northern Iowa to contribute to a new interdisciplinary graduate program in Environmental Science/Technology. The successful applicants will have teaching and research interests compatible with core faculty in environmental science whose specialties include limnology, ecotoxicology, microbial molecular and environmental technology and will receive a tenure track appointment in chemistry (senior position) or geology (junior position).

ENVIRONMENTAL GEOLOGIST/HYDROLOGIST

Assistant Professor, beginning August, 1994. A doctorate in geology or closely-related discipline, a strong commitment to teaching and quality contributions in research and professional service are required. Salary is commensurate with qualifications and experience. Responsibilities will include teaching introductory and upper-level geology courses to undergraduates and mentoring and instruction in the MS Environmental Science/Technology program. Instructional load will include Global Systems, Hydrogeology, and other courses in geology and environmental science as determined by departmental needs. Applicants should submit a letter of application, curriculum vitae (including a listing of teaching experience, research interests, and a statement of educational philosophy), copies of academic transcripts, and three letters of recommendation to: Dr. Wayne Anderson, Head, Department of Earth Science, University of Northern Iowa, Cedar Falls, IA 50614-0335.

ENVIRONMENTAL CHEMIST

Associate or Full Professor, beginning August, 1994. Requirements include a Ph.D. in chemistry or biochemistry and an established record of productive research with external funding in environmental chemistry. Other areas that complement the existing expertise in the interdisciplinary graduate program in environmental science/technology will be considered. Successful applicants must be highly motivated toward excellence in teaching as well as research and will be expected to contribute to the departmental teaching efforts in traditional chemistry courses and to develop new courses in environmental chemistry. Applicants must submit a curriculum vitae, a detailed statement of research plans and selected publication reprints, and a statement of teaching philosophy, and arrange for three letters of recommendation be sent directly to: Chair of the Search Committee, Department of Chemistry, University of Northern Iowa, Cedar Falls, IA 50614-0423.

The new Environmental Science/Technology degree is an MS thesis degree for students with strong basic science undergraduate degrees. The University of Northern Iowa is committed to environmental programs and, in addition to the graduate degree, has established undergraduate environmental curricula and several research centers emphasizing environmental research and education. UNI is one of the three Regent’s Universities in Iowa and is located in the metropolitan area of Cedar Falls/Waterloo (pop. 110,000). UNI encourages applications from minority persons, women, disabled persons and Vietnam era veterans. Review of applications will begin on December 31, 1993, and continue until an appointment is made. UNI is an equal opportunity educator and employer with a comprehensive plan for affirmative action.
**POSITIONS OPEN**

**MOLECULAR GENETICIST**

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**MEETINGS**

**SYMPOSIUM**: Pharmaceutical Design: Anti-Sense, Triple Helix, Nucleic Acid Binding Drugs

January 21-February 1, 1994;
Hyatt Ricker, Palo Alto, California


**ANNOUNCEMENTS**

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State-of-the-Science Summer Institute in Biological Anthropology, June 6–11, 1994, International Institute for Human Evolutionary Research (IIHER), George Washington University Virginia Campus, Ashburn, Virginia. An in-depth review of the most rapidly developing research and instructional areas in biological anthropology, based on the review by Wiener and Bennett (1986). A workshop consists of lectures, readings, laboratory sessions, and field trips. Tuition of $400 includes double-room accommodations, meals, lectures, and trips. For further information contact the IIHER, GWU, 21011 Academic Way, Ashburn, VA 20211; Telephone: 703/729-8350, FAX: 703/729-8351; EMAIL: IIHER@GW.UVM.

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