POSITIONS OPEN

ASSISTANT PROFESSOR. This full-time, 12-month, tenure-track faculty position in the Division of Nutritional Biochemistry and Metabolism will be filled by a person with expertise in the area of molecular biology. This individual will be expected to develop an independent research program in this area. Must possess a B.S. degree in molecular biology or a closely related field. Must have a Ph.D. and have postdoctoral experience. Send curriculum vitae, summary of research interests, teaching experience, three letters of recommendation, and a teaching statement to: Dr. Debra Hargis, Director, Division of Nutritional Biochemistry and Metabolism, University of Illinois, Urbana-Champaign, IL 61801. Applications are encouraged from persons with disabilities to apply. Position description available upon request.

ASSISTANT PROFESSOR—PH.D. with at least three years of experience in cellular immunity to human retroviruses. Would join team of investigators at the University of Pennsylvania and the Wistar Institute. Demonstrated ability to attract independent funding highly desirable. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer. Reply to: Stuart E. Starr, M.D., Division of Allergy, Immunology, and Infectious Diseases, The Children's Hospital of Philadelphia, 34th Street and Civic Boulevard, Philadelphia, PA 19104.

ASSISTANT PROFESSOR OR RESEARCH ASSOCIATE position (depending on qualifications) available immediately in Dr. Bolli's laboratory for a Ph.D. or M.D. with expertise in CARDIOVASCULAR PHYSIOLOGY or PHARMACOLOGY. This individual will conduct research on the mechanisms of myocardial ischemia/reperfusion injury, open-heart surgery, and conscious dogs and pigs and is involved in rat hearts, focusing particularly on myocardial "stunning," preconditioning, and the role of oxygen radicals. Candidates must have postdoctoral training in research involving myocardial ischemia and injury and two years of experience with some of the above animal models. Send curriculum vitae, a statement of research interests, and names of three references to: Roberto Bolli, M.D., 6535 Fannin, M.S. F-905, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer.

ECOLOGISTS. The Department of Zoology, University of Toronto has two full-time tenure track positions in the area of ECOLOGISTS. The Assistant Professor position commencing July 1, 1993, subject to budgetary approval. In one position, preference will be given to candidates with experience in community or ecosystem ecology; the second position is open to candidates in all areas of ecology. Successful candidates will be expected to contribute to the teaching of an intermediate ecology course, plus an advanced course in their area of special interest. They will also be expected to develop a research program, teach and advise graduate students, and attract external funding. Applications consisting of curriculum vitae, reprints and description of future research programs, plus names of three referees should be sent to: Dr. S. Desser, Chair, Department of Zoology, University of Toronto, M5S 1A1, Canada. Deadline for receipt of applications is January 15, 1993. This advertisement is directed to Canadian citizens and permanent residents of Canada. The University of Toronto encourages both men and women to apply for positions.

ASSISTANT PROFESSOR OF PATHOLOGY. The University of Illinois College of Medicine at Peoria seeks an Academic Pathologist to teach Pathology and help coordinate the Pathology curriculum. The successful candidate will also establish a research program or direct the research of an academic faculty member. Candidates must have an earned doctorate and must be qualified to teach Pathology. Available November 1, 1993. Send curriculum vitae, names of three references, and statement of academic plans to: Gerald Bartlett, Chair, Pathology Department, University of Illinois College of Medicine at Peoria, Box 1649, Peoria, IL 61654-1649. University of Illinois is an Affirmative Action/Equal Opportunity Employer.
Genetics Institute is a recognized leader in the discovery and characterization of novel human regulatory proteins and their development into biopharmaceuticals. The following positions provide opportunities for outstanding individuals to achieve in this pioneering organization.

Genetics Institute offers competitive salaries and benefits, including comprehensive health care, dental and life insurance, three weeks’ paid vacation, 401(k), stock purchase and equity participation plans, tuition assistance, an on-site exercise facility and child care resource and referral.

Genetics Institute is dedicated to building strength through diversity.

We are an Affirmative Action Employer.

**STRUCTURAL PROTEIN CHEMISTRY**

**Staff Scientist**

Responsibilities will involve the primary and tertiary structural analysis of recombinant glycoproteins and the assessment of functionally important domains. This position calls for a PhD in Biochemistry or a related discipline, 0-3 years’ postdoctoral experience, and a strong background in protein chemistry, enzymology or related field. Experience with HPLC, proteolytic mapping, UV/vis and fluorescence spectroscopy, chemical modification, or other classical protein characterization techniques is required. Excellent communication skills and the desire to work in an interactive environment are essential.

**CARBOHYDRATE CHEMISTRY**

**Staff Scientist/Laboratory Head**

Lead a group of scientists whose responsibilities encompass the isolation, structural and functional characterization of glycoconjugates. Candidates should have expertise with the isolation, structural and biological analysis of carbohydrates and glycoproteins. Experience with NMR spectroscopy of oligosaccharides preferred. PhD and 5+ years’ postdoctoral or industrial experience, supervisory background, and a record of scientific leadership and accomplishment are essential, as are excellent communication skills and the desire to work in a collaborative environment.

**BIOMOLECULAR MASS SPECTROMETRY**

**Postdoctoral Fellow**

We seek a talented, well-trained individual with experience in mass spectrometric analysis of biological molecules to contribute to the biomolecular mass spectrometry field. Laboratory instrumentation includes a four-sector tandem mass spectrometer, reflectron MALD-TOF, and access to ES-MS and conventional microsequencing technologies. The position offers the opportunity for substantial collaborative interaction with other scientists, the challenge to develop novel instrumental and/or chemical based strategies for the structural characterization of biologically important molecules, and the chance to make significant contributions to the field. Candidates who will complete their PhD program within the next several months are encouraged to apply.

**Research Associate**

Become part of an established group focusing on the structural analysis of recombinant glycoproteins and proteolytically derived peptides, glycopeptides and carbohydrates using two- and four-sector mass spectrometry and matrix-assisted laser desorption time-of-flight mass spectrometry. Experience in peptide and/or carbohydrate chemistry, HPLC and basic strategies for characterizing recombinant glycoproteins is critical. A basic understanding of mass spectrometry is required, however, extensive hands-on experience is not essential. In addition, you must be highly motivated and have the ability to work independently and as a team member.

For these positions, please forward resume and letter of interest, specifying position of interest, to: Human Resources Department, Genetics Institute, Inc., One Burtt Road, Andover, MA 01810, Attn: Peter Lasky.
Pfizer, a U.S. based multinational pharmaceutical company, has earned its reputation as an industry leader by maintaining its pharmaceutical research at the forefront of biomedical science and therapeutic innovation. Consider these exciting research opportunities in the Molecular Genetics and Protein Chemistry Department located at our Central Research Laboratories in Groton, Connecticut.

**Neurobiology: Receptor Structure and Molecular Biology**
Become a part of a multi-disciplinary team focused on the discovery of novel receptors expressed in the central nervous system. Applicants should have a PhD degree with at least two years of postdoctoral or industrial experience in molecular biology with emphasis in gene isolation and analysis. This should include library construction, cDNA cloning, quantitative RNA analysis; DNA sequence analysis; and PCR using degenerate primers. Interest in the molecular biology and biochemistry of neuroreceptors is highly desirable.

**Cancer: Molecular Biology**
In collaboration with our Cancer Drug Discovery Group, you will participate in the development of strategies to exploit cancer cell selective molecular targets and create approaches towards cancer drug discovery as novel targets are identified. Applicants should have a PhD with at least two years of postdoctoral research in cancer molecular biology. Candidates with experience in the cloning and characterization of novel genes to the field of tumor cell biology (oncogenes, tumor suppressor genes, etc.) are particularly encouraged to apply.

**Cardiovascular: Molecular Biology**
The Cardiovascular Discovery Group is pursuing the role of growth factors and proto-oncogenes in cardiac hypertrophy and congestive heart failure. We are seeking candidates with a PhD in molecular biology and at least two years postdoctoral experience in these areas.

**Obesity: Gene Transcription**
The Molecular Biology Group at Pfizer has considerable expertise in the regulation of gene transcription. As part of our commitment to obesity research, we are seeking applicants with a PhD in molecular biology and at least two years postdoctoral work in obesity or diabetes research. One of the research areas includes the regulation of gene transcription involved in the development and maintenance of obesity.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume, description of research experience, and names of three references to: Mr. Kym Goddu, Personnel Associate, Employee Resources Department, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
ANTIVIRAL DRUG MECHANISMS

Program Resources, Inc. (PRI) has created a new laboratory to support the NCI's preclinical drug discovery program for AIDS at the Frederick Cancer Research and Development Center (NCI-FCRDC).  

**SCIENTIST** - PhD (molecular biology) with 2-3 years experience in the molecular biology of HIV or retrovirus infection. Cell biology or tissue culture experience useful. As laboratory head, will develop and supervise the performance of studies to identify the mode(s) of action of potential anti-HIV agents. Will also collaborate on development of useful clinical candidates for treatment of HIV infections.  

**RESEARCH ASSOCIATES** - MS/BS (molecular biology) with 3-5 years experience in tissue culture, virology, reverse transcriptase assays, and quantitation of HIV infectivity. Background handling radioisotopes and working experience under bio-containment conditions useful. 

The working environment provided by the NCI-FCRDC is a campus-like setting in Frederick, MD near Baltimore and Washington, DC. PRI offers a salary commensurate with credentials and an attractive fringe benefits program. Forward resume in confidence to Barbara J. Norton-Gill, Employment Representative.  

**PROGRAM RESOURCES, INC.**  
A DynCorp subsidiary  
NCI-FCRDC  
P.O. Box B  
Frederick, MD  
21702-1201  
EOE, M/F  

ASSISTANT DIRECTOR  
Laboratory Animal Medicine  

**SmithKline Beecham Pharmaceuticals**, a worldwide leader in pharmaceutical research, is seeking a highly qualified veterinarian to assume Assistant Director responsibilities in our Laboratory Animal Science Department. As Assistant Director, the veterinarian will manage the LAS veterinary medical section's ongoing activities, its staff and state of the art facilities. This will include clinical microbiology, clinical pathology, surgery, radiology, necropsy and examination facilities. The Assistant Director manages preventative medicine and quarantine programs, animal vendor surveillance and evaluation, and clinical treatment to support LAS services to investigators. The successful candidate will draw upon strong interpersonal and communication skills to participate directly in scientific investigations, providing consultation and expert advice on the design and completion of research activities.  

Requirements include a DVM/VMD and Board certification (ACLM, ACVIM, etc.) with a minimum of 5 years Laboratory Animal Medicine experience. Proven managerial skills as well as an established research background are preferred.  

Our research facilities are located in suburban Philadelphia, in an area near many academic and commercial institutions that are active in Laboratory Animal Medicine and Science. We offer an excellent compensation, benefits, and relocation package, as well as many opportunities for personal and professional growth. For confidential consideration, please forward your resume to Employment Administrator, M047, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer. M/F/H/V.  

**SmithKline Beecham Pharmaceuticals**  
Challenging the natural limits.  

PERSONNEL PLACEMENT ADS in our classified columns can be boxed for higher visibility. Call SCIENCE at 202-326-6555 for details.
POSTDOCTORAL OPPORTUNITIES IN MOLECULAR CARCINOGENESIS

... are currently available at the American Health Foundation, a multidisciplinary, not-for-profit cancer research institute with state-of-the-art research facilities. Working in close collaboration with scientists in established research programs, you will receive training enabling you to enhance your skills and to participate in developing new research strategies to elucidate mechanisms of carcinogenesis at the molecular level.

CHEMICAL CARCINOGENESIS
Mechanisms of cancer chemoprevention by naturally occurring and synthetic chemopreventive agents will be studied. DNA adducts formed by carcinogens in laboratory animals and human tissues will be identified. Respond to: Stephen S. Hecht, Ph.D.

BIOCHEMICAL PHARMACOLOGY
Assess unique modifications of oligodeoxynucleotides as probes for biological effects of DNA-damaging chemicals. Determine the significance of post-translational modifications of regulatory proteins, in the mechanism of action of novel cancer chemopreventive agents. Respond to: Emerich Fiala, Ph.D.

MOLECULAR CARCINOGENESIS
Study the regulation of specific UV-inducible gene expression in human cell systems with a major focus on the functional assessment of these genes with respect to cell cycle, control of cell growth, and differentiation. Respond to: Zeev Ronai, Ph.D.

ENVIRONMENTAL CARCINOGENESIS
Investigate the mechanism of lung, esophageal, and oral cavity carcinogenesis. Isolate potential carcinogens from food and tobacco products, study their activation by P450 enzymes to DNA binding species, and investigate their effect on gene expression. Respond to: Dietrich Hoffmann, Ph.D.

PATHOLOGY/TOXICOLOGY — Engage in research on the mechanism of action of hepatocarcinogens with focus on the characterization of alterations in gene structure and function. Respond to: Gary M. Williams, M.D.

These positions have the potential to become long-term appointments at a higher level. The American Health Foundation provides an excellent opportunity for future independent research, within a modern environment in a pleasant Westchester County campus setting. If qualified, please send your “C.V.” with references, directly to the investigator in your area of choice, c/o: American Health Foundation, One Dana Road, Valhalla, New York 10595. We are an equal opportunity employer m/f/hv.
CHIEF, DIVISION OF Pediatric HEMATOL-OGY/ONCOLOGY IN THE DEPARTMENT OF BIOLOGY AT THE UNIVERSITY OF FLORIDA.

The applicant should be a diplomate of the American Board of Pediatric Hematology/Oncology, and be qualified to serve at the rank of associate or full professor. Applicant should be an energetic physician-scientist with proven leadership skills and a demonstrated ability to maintain a high level of excellence in research, education, and patient care. The applicant should have an active commitment to diversity and have experience in training minority and women faculty. Preference will be given to applicants who have demonstrated success in developing and leading research programs in pediatric hematology/oncology.

DIRECTOR, ENVIRONMENTAL FELLOWSHIP PROGRAM, Department of Environmental Health, University of Alabama at Birmingham School of Public Health. The position is available immediately with a negotiation of a start date, and immediately with a negotiation of a start date. Applicants must have a Ph.D. in environmental health science or a related field and be committed to environmental health issues. Preference will be given to candidates who have experience in environmental health science research and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Fellowship Program, including the recruitment and training of fellows and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

DIRECTOR, CENTRAL FACILITY FOR POLYMER MORPHOLOGY, The Materials Research Laboratory at the University of Massachusetts, Amherst. This position is open to candidates with a Ph.D. in materials science or a related field. The successful candidate will be responsible for the management and operation of the Polymer Morphology Facility, with an emphasis on polymer materials research. Applicants should have a strong commitment to diversity and inclusion.

DIRECTOR, ENVIRONMENTAL RESEARCH CENTER AND SPILL REMEDIATION RESEARCH CONSORTIUM, University of Arizona, Tucson. The position is available immediately with a negotiation of a start date. Applicants must have a Ph.D. in environmental science or a related field and be committed to environmental science research and policy. Preference will be given to candidates who have experience in environmental science research and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Environmental Research Center and Spill Remediation Research Consortium, including the recruitment and training of researchers and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

HEAD, DEPARTMENT OF BIOLOGY, UNIVERSITY OF MARYLAND, College Park. The position is available immediately with a negotiation of a start date. Applicants must have a Ph.D. in a biological science and be committed to excellence in teaching and research. Preference will be given to candidates who have experience in teaching and research in a biological science and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Department of Biology, including the recruitment and training of faculty and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

THE UNIVERSITY OF BRITISH COLUMBIA (UBC), FACULTY OF MEDICINE, HEAD, DEPARTMENT OF PHYSIOLOGY. The position is available immediately with a negotiation of a start date. Applicants must have a Ph.D. in a biological science and be committed to excellence in teaching and research. Preference will be given to candidates who have experience in teaching and research in a biological science and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Department of Physiology, including the recruitment and training of faculty and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

GEOGRAPHIC MEDICINE—The University of Alabama at Birmingham (UAB) Department of Anatomy and Cell Biology is seeking a full-time associate or full professor, with tenure, in the area of geographic medicine. Applicants should have a Ph.D. in a relevant field, with a strong publication record, and a commitment to excellence in teaching and research. Preference will be given to candidates who have experience in geographic medicine and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Geographic Medicine Program, including the recruitment and training of students and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

INFECTIOUS DISEASE EPIDEMIOLOGIST, Emory University School of Public Health seeks a tenured or tenure-track faculty member (at least level is negotiable) in infectious disease epidemiology. The position entails development of an externally funded research program and a major role in teaching master's/doctoral students. Interested applicants should submit curriculum vitae, publication list and the names of at least three references, to: Dr. Elizabeth Halloran, Department of Global Health, Emory University School of Public Health, 1595 Clifton Road, NE, Atlanta, GA 30322. Review begins September 1, 1992, and continues until an acceptable candidate is found. Applications are particularly encouraged.

FACULTY POSITION IN BIOLOGICAL SCIENCES AND TECHNOLOGY, Texas A & M University, College Station. Applicants should have a Ph.D. in a biological science and be committed to excellence in teaching and research. Preference will be given to candidates who have experience in teaching and research in a biological science and have a strong publication record. The successful candidate will be responsible for the development and oversight of the Biological Sciences and Technology Program, including the recruitment and training of students and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.

POSTDOCTORAL POSITION available October 1, 1991, to study the role of the HLA-DR gene in infectious diseases. The position will involve the use of molecular techniques to study the expression of the HLA-DR gene in various cell types and the role of the HLA-DR gene in the immune response to infections. Preference will be given to applicants with a Ph.D. in molecular biology or biochemistry and a strong publication record. The successful candidate will be responsible for the development and oversight of the Postdoctoral Position, including the recruitment and training of students and the supervision of research projects. Applicants should have a strong commitment to diversity and inclusion.
WADSWORTH CENTER FOR LABORATORIES AND RESEARCH

STAFF SCIENTIST POSITIONS

The opening of the Axelrod Institute for the study of infectious disease reflects the continuing commitment of the Wadsworth Center to molecular medicine. This expansion provides exciting employment opportunities within the Center, a multidisciplinary basic research and public health laboratory. Centralized core technical facilities in biochemistry and ultrastructure, immunology, molecular genetics, and information resources ensure state-of-the-art equipment and laboratory services. The staff positions are in both research and service-related functions. Research staff are expected to develop strong independently funded programs. Participation in the graduate program of the School of Public Health of the State University of New York, which is housed at the Wadsworth Laboratories, provides opportunity for academic interaction and involvement in graduate education.

MOLECULAR, CELL AND DEVELOPMENTAL BIOLOGISTS

Candidates with expertise in molecular biology are sought to fill several positions. One opening is for an individual interested in studying regulation of gene expression in phage/bacterial or yeast systems. Candidates should have experience in microbial genetics, nucleic acid-protein interactions, genetic recombination, splicing and/or molecular evolution. A second position is available for someone interested in cell cycle regulation, membrane signaling and transport, or protein translation in mammalian cells. Expertise in protein expression and in vitro cellular reconstitution systems (especially oocyte) is desirable. A third position is available for a developmental biologist working in a non-mammalian system with well-defined genetics and a sophisticated developmental program.

Search Committee Chairpersons: Dr. Carmen Mannella and Dr. Marlene Belfort

CELLULAR IMMUNOLOGISTS

The Center is particularly interested in attracting candidates in basic research to apply cellular and molecular approaches to the study of lymphocyte activation, interaction and/or regulation, and to interact with established groups in virology, cell biology, biochemistry and molecular genetics. Experience in flow cytometry and/or cytokine assays is desirable. Special opportunities are available for collaborative study pertaining to the immunobiology of HIV-1 infection and AIDS.

Search Committee Chairperson: Dr. Donal Murphy

NMR SPECTROSCOPIST

Candidates should be skilled in 1D and 2D homonuclear proton NMR techniques and prepared to apply the merging 2D, 3D and 4D 15N-13C-heteronuclear-edited NOESY methodology to biological problems in the health sciences. The incumbent may interact with Center investigators studying oligosaccharide conformation and protein folding. Interaction with the X-ray crystallography and mass spectrometry facilities is highly encouraged.

Search Committee Chairperson: Dr. Robert Trimble

INFORMATION RESOURCES COORDINATOR AND COMPUTER SUPPORT PERSONNEL

The Center seeks an individual with an extensive background in electronic data processing/system analysis and with management skills. The selected individual will supervise system analysts, and data-base management and networking specialists to: (i) develop and manage a computer core facility supporting both basic research and service functions, and network core technical facilities in biochemistry, immunology and molecular genetics; (ii) support and advise individual laboratories that provide State-mandated clinical and proficiency testing services; (iii) coordinate acquisition of hardware and software by directors of different units, to establish and maintain an integrated computational infrastructure with shared access.

Entry-level positions for network, PC and software support are also available.

Search Committee Chairperson: Dr. Joachim Frank

CLINICAL GENETICIST

A clinical geneticist is sought with experience in molecular analysis of human diseases. The position requires expertise in all aspects of DNA analytical procedures. The individual will interact with the medical community to provide diagnostic reports and regulatory oversight of clinical genetics laboratories.

Search Committee Chairperson: Dr. Kenneth Pass

CLINICAL MICROBIOLOGIST/IMMUNOLOGIST

MYCOLOGIST

Candidates with a strong background in diagnostic clinical microbiology/immunology or medical mycology will participate in and direct the respective laboratory’s diagnostic and reference units, applying recent molecular diagnostic techniques. The individuals selected will also be responsible for Statewide proficiency testing of clinical laboratories.

Search Committee Chairpersons: Dr. Mehdi Shayegani and Dr. Ira Salkin

- Positions available immediately
- Salaries competitive and commensurate with level of appointment.
- Candidates with a doctoral degree and at least three years’ post-doctoral experience should send applications by September 15th with the names of three references to the appropriate search committee chairperson at:

Wadsworth Center for Laboratories and Research
New York State Department of Health
Empire State Plaza, P.O. Box 509
Albany, NY 12201-0509
POSTDOCTORAL PHYSICAL CHEMIST
Ref. 2/92

The Ludwig Institute for Cancer Research, the Walter and Eliza Hall Institute of Medical Research, and the Department of Molecular Biology and Biochemistry are undertaking the development of a new automated protein sequence. A position is available for an experienced Postdoctoral Physical Chemist, with an interest in combining computer information and organic chemistry, to join the team developing this new sequencer, working with Dr. Richard Simpson in the Joint Protein Sequencing Laboratory.

In the first instance this position is available for one year, with the possibility of a second year. As this position represents an opportunity for a scientist with entrepreneurial skills to participate in the establishment of the sequence as a commercial entity.

The salary for this position is negotiable up to $42,588, according to background and experience. Further information can be obtained from Richard Simpson by telephone (+61-3-347 3185) or FAX (+61-3-347 1938).

Applications should be sent to: The Director, Ludwig Institute for Cancer Research, Post Office, Royal Melbourne Hospital, Melbourne 3050, Australia.

POSTDOCTORAL POSITIONS

1. Available immediately—TWO POSTDOCTORAL POSITIONS to study the tissue-specific expression of angiotensin converting enzyme and the receptors for angiotensin II. This position involves a critical role in cardiovascular and renal function. The positions require a recent M.D. or Ph.D. in biochemistry, pharmacology or molecular biology. Most importantly we are looking for people with the drive to eventually develop an independent research effort. Send curriculum vitae and telephone numbers of references to: Ken Bernstein, M.D., Room 711 WMB, Department of Pathology, Emory University, Atlanta, GA 30322. Emory University is an Affirmative Action/Equal Opportunity Employer.

2. POSTDOCTORAL POSITION. We have recently cloned the gene encoding a dipeptidase toxin receptor by employing an expression cloning strategy in which toxin-sensitive cells were isolated after transfection of toxin-resistant wild-type mouse L-cells with a cDNA library from highly toxin-sensitive monkey Vero cells (see Cell 69, 1051–1061 (1992)). The position entails investigating the expression and processing of the receptor, in vitro translation, and possible immunological and functional characterization. Send curriculum vitae and names of three references to: Dr. Leon Eidel, Department of Microbiology, The University of Texas (UT) Southwestern Medical Center, Harry Hines Boulevard, Dallas, TX 75235–9048. UT Southwestern is an Equal Opportunity Institution.

Please send applications to:

Dr. Susan Wallace
The Rockefeller University
1230 York Avenue
New York, NY 10021

A view of the document contains information on positions open for various scientific roles, including those in pathology and physical chemistry. The positions require candidates with specific educational backgrounds and experience. Interested candidates are encouraged to apply by sending their curriculum vitae and three references to the respective institutions. The document highlights the importance of interdisciplinary research and the availability of opportunities for postdoctoral fellows in various fields of science.
**RESEARCH SCIENTISTS**
**RESEARCH ASSOCIATES**
**ADHESION BIOLOGY GROUP**

The **Upjohn Company**, a recognized leader in pharmaceutical research and development, has several excellent opportunities available for scientists and research associates in our new Adhesion Biology Group. Under the direction of Donald C. Anderson, M.D., research activities will include the definition of adhesion molecule structure at the three dimensional level, mechanistic studies of adhesion molecule function and investigation of the regulation of adhesion molecule expression in models of inflammation.

Upjohn Laboratories offers a stimulating, multi-disciplinary research environment at our modern facilities located in Kalamazoo (a southwestern Michigan community located midway between Detroit and Chicago). An excellent salary and benefits package is provided.

For confidential consideration, please submit your resume (refer to position code #115) to: Donald C. Anderson, M.D., THE UPJOHN COMPANY, 7000 Portage Street, Unit 7245-267-3, Kalamazoo, MI 49001. We are an equal opportunity employer, M/F.

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**SUPERVISOR MAGNETIC RESONANCE IMAGING LAB**

The Research Imaging Center of the University of Texas Health Science Center at San Antonio is seeking a physical scientist specializing in magnetic-resonance imaging (MRI) to serve as Technical Director of its MRI Research Laboratory. The Research Imaging Center is a newly formed imaging-research center concentrating on the synergistic application of multiple imaging modalities to human physiology and pathophysiology. The position is for a junior faculty member who will be expected to actively promote multi-modality research both through MRI-based independent research and through joint projects with other RIC laboratories. The MRI lab is equipped with a 2.0 Tesla GE CSI unit for animal imaging and is purchasing a research-dedicated 1.5 Tesla system equipped for both imaging and spectroscopy in humans. Other RIC imaging modalities include positron-emission tomography, magnetic resonance spectroscopy and electrical-source imaging.

Candidates must have a doctoral degree in physics, engineering, or other appropriate physical science with post-doctoral experience in the design and development of MRI hardware and software. Experience with pulse-sequence design and programming is required. Experience in functional MRI (i.e., detection of task-induced brain activation) is strongly preferred.

This position carries an appointment as a Senior Scientist at the RIC and a tenure-track academic appointment in the Department of Radiology.

Salary and Academic Rank commensurate with qualifications. Send curriculum vitae and references to: MRI Supervisor Recruitment, c/o Peter T. Fox, M.D., Professor and Director, Research Imaging Center, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, Texas 78284-6240. An AA/EOE employer.

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**BROOKHAVEN NATIONAL LABORATORY**

**POSTDOCTORAL RESEARCH ASSOCIATES**

**Biology Department**

The Biology Department at Brookhaven National Laboratory has positions available for:

(i) **A MOLECULAR BIOLOGIST** with experience in DNA cloning, sequencing and expression to conduct research on regulatory enzymes associated with photosynthetic membranes. Previous experience with *in vitro* mutagenesis and a strong interest in protein structure/function relationships would be advantageous. (ii) **A PROTEIN BIOCHEMIST** with protein purification, peptide analysis and analysis of terminal covalent modifications to conduct research on proteins associated with the stromal surface of the thylakoid membrane. Experience with phosphoproteins would be desirable.

Candidates should forward a curriculum vitae, a list of publications and the names and addresses of three references to: Dr. Geoffrey Hind, Biology Department, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973. Equal Opportunity Employer M/F/D/V.

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**BROOKHAVEN NATIONAL LABORATORY ASSOCIATED UNIVERSITIES, INC.**

at the center of science, beside the sea
Biotechnology Sales Representatives in Immunology

BioSource International is a leading supplier of immunological reagents and ELISA kits to biomedical research scientists. BSI is a young and dynamic California based company with an outstanding record of growth and achievement. This is a ground floor opportunity, with career development potential in sales management, marketing and administration. We offer a competitive salary, bonus, car allowance, stock options, 401K plan and medical/dental plan.

The position requires a minimum of a B.S. degree in biology or a related discipline, an M.S., M.B.A. or Ph.D. is preferred, with two or more years of relevant laboratory experience in immunology, cell biology or molecular biology. Familiarity with ELISA, flow cytometry, and bioassays a plus. We are seeking candidates for both the Chicago/Midwest territory and the NYC/New Jersey territory. The candidate should be extremely well organized, possess excellent written and verbal communication skills, and be computer literate. No prior sales experience is required, but an outgoing sales-oriented personality is a prerequisite.

Please forward your resume in confidence to:

BioSource International
Attention: Mrs. Berry
950 Flynn Road, Suite A
Camarillo, CA 93012

National Institutes of Health
POSTDOCTORAL POSITION IN MUCOSAL IMMUNOLOGY

The Laboratory of Immunology, National Institute of Dental Research, seeks an outstanding candidate for a postdoctoral fellow position to study interactions of microbial pathogens with epithelial cells with an emphasis on induction of receptors, cell signaling pathways and cytokines which impact on oral mucosal immunity and inflammation. Considerable opportunity exists for performing independent research in a well-equipped multidisciplinary laboratory. Experience in immunology, cell and molecular biology is desirable. Candidates with more than three years of relevant postdoctoral experience may be considered for a Staff Fellow position. Starting salary will be commensurate with qualifications and experience. Interested candidates should submit a curriculum vitae and names of three references no later than September 30, 1992.

Material should be sent to:

Faye M. Harbrant
Personnel Management Specialist
National Institute of Dental Research
National Institutes of Health
Bldg. 31, Room 2C23
9000 Rockville Pike
Bethesda, MD 20892

NHI is an Equal Opportunity Employer

THE THIRD KECK SYMPOSIUM ON COMPUTATIONAL BIOLOGY

November 1–3, 1992 • Four Seasons Hotel • Houston, Texas

ANNOUNCEMENT AND CALL FOR POSTER ABSTRACTS

John Wooley, NSF
"Opportunities in Computational Biology"

Ken Kennedy, Rice University
"Programming Software Support for Massively Parallel Computers"

Larry Smarr, NCSA
"Supercomputing and the Transformation of Science"

Geoffrey Fox, Syracuse University
"Physical Concepts in Optimization"

Joachim Frank, SUNY Albany
"Crystallography without Crystals: A Computational Challenge"

Wilfred van Gunsteren, ETH
"Molecular Modeling of Biomolecules: Striking a Balance between Supercomputing and Back-of-the-Envelope Calculations"

Herbert Hauptman, Med. Fdn. of Buffalo
"A Minimal Principle in the Phase Problem of X-Ray Crystallography"

Gregory Petko, Brandeis University
"Protein Crystallography and Computational Biophysics: A Marriage Made in Heaven or the Other Place?"

Bob Robbins, Johns Hopkins University
"Interconnectivity of Genome Databases"

Mike Waterman, USC
"Finding and Interpreting an Infinite Number of Sequence Comparisons in Finite Time"

Alan Lapedes, Los Alamos Nat’l Laboratory
"Protein Structure and Function using Neural Networks and Information Theory"

Richard Lathrop, MIT
"Massively Parallel Learning Methods for Protein Sequence Patterns"

Workshop Discussants

Bill Brinkley, Charles Brooks III, Alan Carle
Tom Caskey, Wuh Chiu, Bob Cottingham
Elisabeth Getzoff, Richard Gibbs, Charles Lawrence
Andy McCammon, George Phillips, Monte Pettit
B.V. Prasad, Conly Rieder, Florante Quiocio
Ray Salamone, Bruce Schatz, Mike Schmid
David Specter, Randy Smith, Craig Upton
Steve Wolinski

A Joint Program of Rice University and Baylor College of Medicine

For more information, contact Sue Wong, W.M. Keck Center for Computational Biology
P.O. Box 1892 Houston Texas 77251 (713) 285-5352 Fax (713) 285-5154 swong@rice.edu

CAREER OPPORTUNITIES IN OLIGONUCLEOTIDE THERAPEUTICS

ISIS Pharmaceuticals, located in Carlsbad, CA (San Diego County), is a pharmaceutical company focused on antisense oligonucleotide therapeutics. ISIS has innovative research programs, strong funding, a world-class scientific advisory board, excellent facilities and strong academic ties which make ISIS an exciting opportunity for outstanding individuals. Present openings include:

Cellular Biologist/Molecular Pharmacologist

ISIS Pharmaceuticals is seeking Ph.D. or M.D. scientist to develop and implement research on intracellular transport of molecules and interaction of novel chemicals with model biological membranes. The successful candidate would work closely with medicinal chemists and molecular and cellular biologists to study the mechanisms by which novel drugs interact with mammalian cells and accumulate within. At least two years postdoctoral experience in the cell biology/molecular pharmacology of transport of molecules in mammalian cells would be required. Experience in receptor ligand interactions and membrane biology/biophysics would be an advantage. Please refer to position code 124.

Biochemists/Molecular Biologist/Cell Biologist BS/MS

ISIS has several positions for BS/MS scientists with experience in biochemical, molecular biology and cellular biology techniques such as protein purification, DNA and RNA sequencing, DNA cloning, cell culture and microscopy. Please refer to position code 125.

ISIS Pharmaceuticals offers a competitive salary, excellent benefits and equity participation. Submit cover letter, CV and references to: Human Resources, ISIS Pharmaceuticals, 2280 Faraday Ave., Carlsbad, CA 92008.

ISIS PHARMACEUTICALS
Equal Opportunity Employer

A pastiche of for-profit and nonprofit organizational marketing, here combining biomedical research with sales and consulting. The document carries the weight of national prestige (National Institutes of Health) and university affiliations (Rice University). The placement strategies are varied and ambitious.
TOXICOLOGIST/TERATOLOGIST

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. Currently, we are seeking a Toxicologist/Teratologist to join us at our New Brunswick, NJ Campus.

We are seeking a Ph.D. level reproductive toxicologist/teratologist for our New Brunswick, NJ site. Specialization in male fertility and/or embryology is preferred. Responsibilities will include serving as Study Director for Segment I, II and III reproductive drug safety evaluations.

Please forward your resume to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Dept. 344-ER, P.O. Box 4000, Princeton, NJ 08543-4000.

Equal Opportunity Employer, M/F/D/V.

Bristol-Myers Squibb Company

BIOTECHNOLOGY RESEARCH & DEVELOPMENT

DNX Corporation - the established leader in transgenic sciences - has exciting and unique career opportunities in our Princeton, New Jersey, Research & Development facility:

RESEARCH ASSOCIATES, BS/MS

Disease Modeling, Gene Expression

Candidates with 2+ years experience in recombinant DNA technology, in vitro mutagenesis, or mammalian cell culture are invited to apply for positions in our DISEASE MODELING and GENE EXPRESSION groups. In Disease Modeling, you will enhance biological models for use in drug discovery (CODE DM-1); in Gene Expression, you will be involved in understanding mechanisms governing high-level tissue specific expression in transgenic animals. (CODE GE-1)

RESEARCH ASSOCIATES, BS/MS

Xenotransplantation

Candidates with 2+ years experience in immunological techniques including ELISAs, monoclonal antibody production, and complement assays are invited to apply for positions within our Xenograft group, where you will research the emerging field of animal organ to human transplants. (CODE XENO-1)

RESEARCH ASSOCIATES/PROCESS ENGINEERS, BS/MS

Protein Purification and Scale-up

Candidates with 2+ years experience in therapeutic protein purification and the transfer of protocols into a GMP production environment, are invited to apply for positions within our Protein Purification and Scale-up group. Here you will support the development effort of purification and scale-up for pilot plant production. (CODE PURIF-1)

RESEARCH ASSOCIATES, BS/MS

Protein Assay and QC

Candidates with 2+ years experience in routine protein assays, including HPLC, electrophoresis, amino acid analysis, and sequencing, in addition to ELISA, and microbiological assays are invited to apply for positions in our Protein Assay and QC group, where you will perform assays on In-Process and final product samples. (CODE PROAS-1)

DNX offers an excellent scientific working environment in an ideal location (midway between New York and Philadelphia) along with an attractive salary and benefits package. If you want to apply your scientific talents to the innovative areas described above, we’d like to hear from you. For prompt consideration, send your resume (with the position code noted), including a list of references and salary requirements, to:

Director-Human Resources
303B College Road East
Princeton, New Jersey 08540

Equal Opportunity Employer

Database Training Instructor

The John Hopkins University invites applications and nominations for the Database Training Instructor in the Laboratory for Applied Research in Academic Information, William H. Welch Medical Library of the Johns Hopkins Medical Institutions (JHMI). This position in the Lab's Product Services Group has responsibility for developing, modifying, and delivering training and outreach activities for the Lab’s databases (including the Genome Data Base and Online Mendelian Inheritance in Man) and for related biomedical databases produced by other organizations. This is a Research Associate (non-tenure-track faculty) position.

Duties: Teach courses and present demonstrations in the Lab's training facility in Baltimore and at universities, research centers, and meetings both nationally and internationally; develop, evaluate, and update training activities, both classroom and non-classroom-based, to reflect changes in the databases and the needs of a diverse and distributed scientific community including students, senior faculty, industrial researchers, clinicians, and information specialists; provide feedback and input to the Lab’s Product Development and Data Management Groups.

Requirements: Ph.D. in the life sciences or related field with M.L.S. or M.A.M.S. in information systems, 3-5 years experience with biological/medical databases, including the provision of product services/training/demonstrations to the user community. Excellent teaching and communications skills. Ability to work with other professional staff, both in the Lab and at other institutions. Willingness to travel up to 25 percent. Strong commitment to user services. Training in molecular biology/genetics and experience with sequence analysis software highly desirable.

Salary is negotiable and competitive. Send (via US mail or electronic mail) or fax letter of application, resume, and salary requirements to:

Training Coordinator
Laboratory for Applied Research in Academic Information
The Johns Hopkins University, Johns Hopkins Inn
400 North Broadway, Room 355
Baltimore, MD 21205
Fax: (410) 614-0434
E-mail (internet): kab@library.welch.jhu.edu

Deadline for applications is August 31, 1992.

An Affirmative Action/Equal Opportunity Employer
POSTDOCTORAL POSITION available immediately for a THEORETICAL ECOLOGIST to develop spatially explicit models of Northern Spotted Owls. Requires a research emphasis in animal behavior and population ecology with strong theoretical aptitude and training. Experience with UNIX-based workstations helpful. Salary is $25,000 per month. Application deadline is August 15, 1992. For more information and to apply, see: Dr. Robert J. Taylor, California Forestry Association, 1311 1st Street, Sacramento, CA 95814.

POSTDOCTORAL POSITION to study lymphocyte-mediated immunoregulation of experimental autoimmune encephalomyelitis. The work involves peptide synthesis, and cellular and molecular immunological approaches. Experience in lymphocyte culture techniques and molecular biology highly desirable. Send curriculum vitae and list of references to: Dr. Robert H. Swanberg, Department of Immunology and Microbiology, Wayne State University School of Medicine, Detroit, MI 48201.

Haskell Laboratory for Toxicology and Industrial Medicine, Du Pont, has a POSTDOCTORAL POSITION available. This postdoctoral position available immediately for a Ph.D. with extensive molecular and cell biology experience to participate in pulmonary mechanistic studies designed to elucidate toxicological effects of particulate matter. The candidate should have working knowledge of common molecular biology techniques, tissue culture methods and/or experience with ELSUS and related standard protein isolation techniques. Postdoctoral positions are one year assignments renewable for a second year upon mutual agreement. Excellent salary. Please submit curriculum vitae and cover letter to: Dr. Michael W. Warheit, Ph.D., Senior Research Toxicologist E. I. duPont de Nemours and Company P.O. Box 80, Elkton Road Newark, DE 19714

Du Pont is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION ECOLOGICAL MODELING Available immediately for Ph.D. in ecology (population biology) with an interest in global change or related area to help develop an ecosystem model of global terrestrial productivity and biochemical cycling for coupling to an Earth System Model. Models will focus on structure and function relationship of the LH/C/G receptor. Please send curriculum vitae and a letter of interest to: Dr. Philip C. Schaalbeek, Lawrence Livermore National Laboratory, Department A92282PH, P.O. Box 808, Livermore, CA 94550. Equal Opportunity Employer.

University of California Lawrence Livermore National Laboratory

POSTDOCTORAL POSITIONS OPEN IMMUNOLOGY

YALE UNIVERSITY SCHOOL OF MEDICINE POSTDOCTORAL POSITIONS IN IMMUNOBIOLOGY

Postdoctoral positions available to work with Drs. Richard Flavell and Erol Firlik on the molecular and cellular immunology and Lyme disease. Preference will be given to applicants with prior experience in molecular biology, microbial pathogenesis or cell biology. Immunovive virology and three letters of recommendation to: Ms. F. DeGrenier, Section of Immunobiology, Yale University School of Medicine, 310 Cedar Street, 424 FMB, Box 3533, New Haven, CT 06510. Yale University is an Equal Opportunity Employer.

The University of Wisconsin Department of Surgery has a POSTDOCTORAL POSITION to study gene therapy approaches to endocrine cell transplantation. Experience in molecular biology including cloning, transfection, and gene expression systems. Experience in cell culture and immunotechnical techniques desirable. Send resume and three letters of recommendation to: Dr. David Hultet, Surgery Department, 600 Highland Avenue, Madison, WI 53792-7375. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION available in September, 1992 to work with NIH-funded investigation of the disposition of reactive metabolites, mechanism for their reaction with proteins and toxicity in vitro and in humans. A Ph.D. in biochemistry or related discipline is required. Experience with pharmacokinetics and HIPCL is desirable. Send curriculum vitae and three letters to: Dr. Philip C. Smith, School of Pharmacy, CB560, The University of North Carolina, CB5799, 130 East Franklin Street, Chapel Hill, NC 27514. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available at Harvard Medical School. Transcription Factors in Normal and Leukemic Human Myeloid Cells. Postdoctoral or research associate position available immediately for a Ph.D. in molecular biology to isolate and characterize transcription factors which specifically regulate myeloid (neutrophil/monocyte/macrophage) genes and to investigate the role of these factors in myeloid differentiation and acute myelogenous leukemia, and to investigate the role of the retinoic acid receptor and PU.1 factor in these processes. Experience in transcription factor research highly desirable. Send curriculum vitae and three letters of reference to: Dr. Daniel G. Tenen, Hematology Division, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215.

MOLECULAR ENDOCRINOLOGY

TWO POSTDOCTORAL POSITIONS are available to investigate the regulation and structure-function relationship of the LH/C/G receptor. Please send curriculum vitae and arrange to mail three reference letters to: Dr. Paul P. Reader, Department of Molecular Biology, University of Wyoming, Laramie, WY 82071-3944. Telephone: 307-766-6277. FAX: 307-766-5098.

HARVARD SCHOOL OF PUBLIC HEALTH POSTDOCTORAL POSITION

Applications are invited for a postdoctoral position to investigate hormonal control of DNA damage. We have cloned bacterial, yeast, human and mouse DNA repair genes whose products prevent mutation and/or cell death. Our goal is to understand their in vivo roles and to further explore other pathways that protect cells against the effects of damage from chemical mutagens. Experience in molecular biology and biochemistry is required. Send curriculum vitae and names of three references to: Dr. Loma D. Samson, Molecular and Cellular Toxicology, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION in Immunology, available immediately. Transcription factors in broad areas of Gastrointestinal and Hepatic Immunology, with specific emphasis on IL-4 and other cytokines. Contact: William R. Schaffhausen, Ph.D., B11, University of Colorado School of Medicine, 4200 East 9th Avenue, Denver, CO 80262. U.S. citizens or permanent resident only. Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION IMMUNOBIOLOGY, available immediately. Transcription factors in broad areas of Gastrointestinal and Hepatic Immunology, with specific emphasis on IL-4 and other cytokines. Contact: William R. Schaffhausen, Ph.D., B11, University of Colorado School of Medicine, 4200 East 9th Avenue, Denver, CO 80262. U.S. citizens or permanent resident only. Affirmative Action/Equal Employment Opportunity Employer.
SYMPOSIUM ON
BIOLOGY OF THE EPITHELIAL CELL
Phenotypes, Polarity, Ion Pumps, Exchangers, Molecular and Cell Biology
held under the auspices of the X11th International Congress of Nephrology

TOPICS
Epithelial Cells in Culture
Models of Polarity
Na⁺/K⁺ ATPase
P⁺/ATPase
Sodium Channels
Potassium Channels
Chloride Channels
Anion Exchangers
Structure and Function of Water Channels
Mutant Hybrid and Chimeric Pumps
CFTR and Cystic Fibrosis

INVITED SPEAKERS
Al-Awqati, Q., USA
Alder, S. L., USA
Aronson, P. S., USA
Bello-Reuss, E., USA
Bergeridge, M., U.K.
Biber, J., Switzerland
Bichara, M., France
Brown, D., USA
Burg, M., USA
Cabantchick, Z. I., Israel
Caplan, M., USA
Cereijido, M., Mexico
Doucet, A., France
Fambrough, D., USA
Fredericker, G., France
Fritzel, R. A., USA
Giebelach, G., USA
Gluck, S., USA
Graham, J. J., USA
Gregor, R., Germany
Guggino, W., USA
Handler, J., USA
Hannah, J. W., Canada
Harris, W., USA
Hoffman, E., Denmark
Hopfer, U., USA
Jentisch, T., Germany
Knudtson, R. G., USA
Kopito, R. L., USA
Lazdunski, M., France
Lingrel, J., USA
Louradour, D., France
Murer, H., Switzerland
Munro, W., J., USA
Pouyssegur, J., France
Rodriguez-Boulan, E., USA
Ronco, P., France
Rossler, B., Switzerland
Wald, H., Israel

ABSTRACT DEADLINE IS DECEMBER 15, 1992
Oral and poster sessions relating to the above-cited themes will be held in conjunction with formal presentations and state-of-the-art lectures. Attendance is open to all. Registration and abstract forms, hotel reservation information and fee schedules may be obtained from:
Secretariat (GB), X11th International Congress of Nephrology
P.O. Box 50006, Tel Aviv, Israel 61500
(Tel: 972-3-5174571; Fax: 972-3-5603255).

THE CHINESE UNIVERSITY OF HONG KONG (founded 1963) offers comprehensive programmes up to the PhD level in the Humanities, Business Administration, Science, Medicine, Social Science, Education, Engineering and Architecture. Current student enrolment is 9,300 full-time equivalent, which will expand to 11,500 by 1994-95. Clinical courses are taught at the Medical Faculty's 1400-bed teaching hospital, the Prince of Wales Hospital, which is one of the regional hospitals in Hong Kong. The Medical Faculty admits 160 students annually and is fully recognised by the General Medical Council of the United Kingdom. The University is also very active in promoting research and consultancies and liaising with industry and the business sector worldwide. English is used in teaching and administration in the Faculty of Medicine.

Applications are invited for:
Lectureship in Biochemistry

Applicants should have a relevant higher degree, preferably a PhD, and relevant teaching and research experience. Established skills in neurochemistry or food science or immunology will be an advantage.

Annual Salary & Fringe Benefits
HK$309,120-350,700 by 2 increments BAR HK$371,520-516,480 by 6 increments

Starting salary and grade will be commensurate with qualifications and experience.

The University offers a competitive remuneration package. For superannuable appointment, benefits include leave with full-pay, contributory superannuation scheme (University 15%, appointee 5%), medical and dental care, education allowances for children, housing benefit for an appointee with annual salary of HK$325,880 or above (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may also be made on fixed term contract which carries equivalent benefits including a contract-end gratuity (15% of basic salary) in lieu of superannuable benefits. The University may also consider more flexible terms for suitable candidates.

Application Procedure
Send full resume in duplicate, giving full particulars, as well as names and addresses of 3 referees, together with copies of qualification documents (in duplicate) and recent publications to the Personnel Section, The Chinese University of Hong Kong, Shatin, Hong Kong (Fax: (852)603 5226) before August 31, 1992. Please quote the reference number 56/305/2/62 and mark "Recruitment" on cover.

(approx. exchange rate at July 6, 1992: US$1=HK$7.8)
POSTDOCTORAL RESEARCH FELLOWSHIPS are now available at the Cardiovascular Biology Laboratory, School of Public Health, Harvard University. Research in the laboratory aims to elucidate basic biological mechanisms of thrombosis and thrombosis to design improved strategies for the inhibition of clotting, or the detection and lysis of pathologic clots. Experience with either molecular cloning, protein engineering, protein chemistry, immunology or cell biology is desirable. Please send curriculum vitae and names of references to: Dr. Guy L. Reed, Cardiovascular Biology—HSHP, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL RESEARCH FELLOW SENSORY NEUROBIOLOGY

A postdoctoral position is available for an individual with a Ph.D. in neurophysiology, neurobiology, biophysics, bioengineering, or a related field. Current research projects involve the study of sensory transduction mechanisms in free nerve endings. Anatomical, electrophysiological, pharmacological, and bioengineering approaches are used to look at mechanisms of cold, mechanical, chemical, and pain transduction. Annual stipend is up to $30,000 depending on experience. Applicants should send curriculum vitae and the names of three individuals who may be contacted for references: Darrell L. Tanelian, M.D., Ph.D., Director of Pain Management and Research, Department of Anesthesiology, University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75235-9068. The University of Texas Southwestern Medical Center at Dallas is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIPS in Neurotoxicology. Studies focus on mechanisms underlying developmental and cell-specific consequences of xenobiotic exposure in the nervous system. Experience in neuroscience, cell or molecular biology, xenobiotic metabolism or organic chemistry essential. Inquiries and curriculum vitae to: Dr. H.E. Lowndes, Rutgers University, Neurorotoxicology Laboratories, 41 Gordon Road, Piscataway, NJ 08854. Telephone: (908) 932-6907. An Affirmative Action/Equal Opportunity Employer.

SCHOOL OF MEDICINE
STANFORD UNIVERSITY
POSTDOCTORAL/RESEARCH ASSOCIATE
POSITION available immediately to lead within the laboratory of Dr. Martin Brown working on mapping and cloning mammalian genes involved in repairing DNA damaged by ionizing radiation. Candidates must have experience in eukaryotic molecular genetics. Send curriculum vitae and names of three references to: Dr. Martin Brown, Department of Radiation Oncology, Stanford Medical Center, Stanford, CA 94305. Stanford University is an Equal Opportunity Employer. Women and members of minority groups are especially encouraged to apply.

POSTDOCTORAL RESEARCH ASSOCIATE

Position available to study the molecular basis of solvent production by Clostridium acetobutylicum. Project includes gene cloning and analysis, introduction of genes into Clostridia, and metabolite and enzyme analyses. Experience in molecular biology, enzymology or applied microbiology is important. Send resume and names of three references to: Dr. Gregory Bennett, Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251.

The Division of Biochemical Toxicology at FDA's National Center for Toxicological Research (NCTR) has two POSTDOCTORAL RESEARCH POSITIONS available. One position (David R. Doerger) involves research into the mechanisms of action of anti-thyroid chemicals. The second position (K. Barry Delcos) involves studies of the molecular mechanisms of toxicity of materials used in medical implants and the development of biomarkers of exposure to potentially carcinogenic agents. A Ph.D. in Biochemistry, Toxicology, or a related field is required. Interested applicants should contact the investigators listed above at: NCTR, HFT-110, Jefferson, AR 72079-9502. Salary range: $32,423 to $58,861. Additional FICA/FHFA/ODA/NCTR is an Equal Opportunity/Affirmative Action Employer. Qualified women and minority candidates are especially encouraged to apply.
Molecular Biology Scientist IV

The new Baxter Biotech Immunotherapy Division is building on success in the development of protein therapeutics. We are committed to research and development of next generation therapeutic biologics utilizing state-of-the-art biotechnology. We seek a talented and energetic individual who can effectively contribute his/her expertise in a multi-disciplinary R&D environment:

This individual will conduct molecular biology research focusing on the design and construction of vectors for eukaryotic gene transfer and high level expression. Responsibilities will also include the establishment of new technologies in support of product development. Applicants must have demonstrated ability in molecular biology, especially including experience with viral and other vector systems. A PhD in molecular biology or related field, plus relevant postdoctoral training is required.

The name Baxter Healthcare Corporation is synonymous with products, systems and services devoted to improving health care throughout the world. We are a Fortune 100 company providing a smoke-free environment, competitive compensation and benefits. Please send your resume in confidence to: Baxter Biotech Immunotherapy Division, Human Resources Dept. LD/MB, 1710 Flower Avenue, Duarte, CA 91010. An Affirmative Action/Equal Opportunity Employer.

Immunotherapy Division

TOXIKOKINETICS/BIOANALYTICAL CHEMIST

Merck Research Laboratories in West Point, a leader in pharmaceutical and biological research, has three research career opportunities available in our Toxicology Department.

Two positions involve development of bio-analytical methods for the quantification of drugs in biological systems and the design and interpretation of toxicokinetic studies. These positions require a Ph.D. in chemistry, biochemistry or the equivalent and 2-9 years experience in bioanalytical techniques. Supervisory experience is beneficial.

The third position includes bioanalytical method development for quantification of drugs/metabolites in plasma as well as laboratory and project supervision. This position requires a BS/MS in biological science or chemistry with 4-5 years experience in drug level analysis in biological systems and laboratory supervision.

Excellent salary and benefit programs accompany these positions at our modern research facilities located 25 miles northwest of Philadelphia. Please send curriculum vitae with cover letter to: Personnel Manager, Ad #0-16, MRL Human Resources WPX-2, Merck Research Laboratories, P.O. Box 4, West Point, PA 19486, EEO/AA/VH Employer.

MERCK
Research Laboratories

POSITIONS OPEN

Marine Biotechnology/Molecular Biology
University of Washington
College of Ocean and Fishery Sciences

Two tenure-track positions will be filled in support of a new College initiative in the area of marine biotechnology/molecular biology. Appointees will occupy new state-of-the-art laboratories in the College.

School of Oceanography—Marine Biotechnology (re-opened)

The School of Oceanography invites candidates active in research that applies biotechnology to marine microbes (phytoplankton, bacteria or protozoans) to apply for a senior-level state-funded faculty appointment in the School of Oceanography. In addition to participating actively in research and teaching in marine biotechnology, the successful applicant will act as the School's liaison to extensive ongoing biotechnological research and teaching programs in other University units, including the Colleges of Engineering, Arts and Sciences, and Forest Resources, the Schools of Fisheries and Medicine, and the Friday Harbor Laboratories, notably on problems of marine bioremediation. Appointment will be as soon as after 15 March 1993 as is feasible for the successful candidate. Applicants should send a curriculum vitae, statement of research interest, a list of publications, recent reprints, and the names, addresses and phone numbers of four referees to: Professor A. R. M. Nowell, Director, School of Oceanography, WB-10, University of Washington, Seattle, WA 98195, by 1 October 1992.

School of Fisheries—Molecular Biologist

The School of Fisheries invites applications from molecular biologists with demonstrated ability to apply modern molecular genetic techniques to fisheries problems, such as stock identification, population structure, aquaculture and seafood product development, or phylogeny of commercially important fishes, mollusks, and crustaceans. The successful candidate is expected to teach courses at the undergraduate and graduate levels; develop a vigorous, externally funded research program; direct graduate students; and provide general molecular/genetics expertise to students, staff, and faculty. This is a 9-month state-funded tenure-track ASSISTANT PROFESSORSHIP in the School of Fisheries, to commence between 1 April and 16 September 1993. Applicants must have an earned doctoral degree. Post-doctoral or equivalent experience is desirable. Applicants should send a curriculum vitae, a statement of research and teaching goals, copies of published papers or manuscripts in press, and names, addresses, and phone numbers of four referees to: Professor Marsha L. Landolt, Director, School of Fisheries, WH-10, University of Washington, Seattle, WA 98195, by 1 October 1992.

The University of Washington is an Equal Opportunity/Affirmative Action employer. Applications from women and minority candidates are strongly encouraged.
We'll Help You Build A New Lab

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

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

SCIENCE Magazine
New Lab Service Department, Rm 830,
1333 H Street, N.W., Washington, DC 20005

APPLICATIONS TO HOST SCIENTISTS & ENGINEERS FROM THE FORMER SOVIET UNION

The National Research Council's Cooperation in Applied Science and Technology (CAST) program invites applications from American laboratories which wish to host colleagues from the Newly Independent States (NIS) of the former Soviet Union (not including the Baltic states) for one academic year (up to nine months) to carry out joint research in U.S. universities and research institutions. Nine month incentive grants will be in the range of $10,000-$12,000. This program, which is funded by the U.S. Agency for International Development, will help NIS scientists and engineers who have worked in defense related research in the NIS to apply their skills to civilian activities. Young NIS specialists with a strong potential to contribute to the development of the private sector in their home country will receive special consideration.

American hosts and NIS specialists must possess doctoral degrees or their equivalent six months prior to the requested beginning date of the visits. Proposals are invited in the following fields: applied mathematics/statistics, control theory, computer science, aeronautics, applied physics, materials science, nuclear science, electronics, chemistry, microbiology, virology, and all branches of engineering. Although priority will be given to NIS specialists in defense related fields, other fields or specialists not previously engaged in defense work are welcome.

American hosts are expected to make all arrangements for the visits directly with their NIS colleagues. All visits must commence in calendar year 1992 or 1993.

Application deadlines for this program:
(1) Deadline: September 14, 1992; Notification: November, 1992
(2) Deadline: March 1, 1993; Notification: May, 1993

Requests for application packets: Office for Central Europe and Eurasia; National Academy of Sciences; 2101 Constitution Avenue, NW (FO2014); Washington, DC 20418; Telephone: 202-334-3680; Fax: 202-334-2614 Bitnet:CAST@NAS;Internet: CAST@NAS.ed
*Please specify "CAST Program, 1992/1993"

ASSOCIATE EDITOR

An editorial position at Science is available for a Ph.D. scientist with a broad range of interests and research experience in one or more of the following areas: condensed matter physics, astrophysics, planetary science, chemistry and/or materials science. We are seeking someone with at least two or three years of postdoctoral experience and publications in the refereed literature. Editors have varied responsibilities including solicitation, selection, and editing of manuscripts. Previous editorial experience is not required. This is a full-time position in our Washington office.

Please send resume and a list of publications with cover letter and salary requirements to:

Ms. Alison French
AAAS
1333 H Street, NW
Washington, DC 20005

EOE
COLORADO STATE UNIVERSITY
HILL PROFESSOR OF
ANIMAL BIOTECHNOLOGY

A new professorship has been established within the Animal Reproduction and Biotechnology Laboratory. We seek an individual, as Associate Professor or Professor, with outstanding potential and a record of accomplishment in research and graduate education, whose expertise would be focused on programming reproduction or altering gene expression in agricultural animals. A Ph.D. or equivalent is required. Opportunities exist for interactive research with 13 faculty in the Animal Reproduction and Biotechnology Laboratory, as well as other molecular biologists on campus. A research program supported primarily by extramural research funds is expected. The ability to teach systemic physiology, cell and molecular biology, or developmental biology is essential. The Department will name an individual the Hill Professor of Animal Biotechnology. An endowment will provide long-term, partial support for activities associated with this position. The new faculty member will be considered for this designation. Salary is negotiable.

Nominations, inquiries or applications should be directed to Dr. Terry Brett, Department of Physiology, Colorado State University, Fort Collins, CO 80523. This is an open search; the position is available immediately. Application deadline October 5, 1992. Applicants should submit a letter of interest outlining research and teaching qualifications and research goals, and a complete CV. Names, addresses and telephone numbers of 4 references must be included. If requested, inquiries will be kept confidential.

Minority scientists are encouraged to apply. Colorado State University is an EEO/AA employer. EO Office: 21 Spruce Hall.

National Institute of Child Health & Human Development
National Institutes of Health

CHIEF
Contraceptive Development Branch
Center for Population Research

The National Institute of Child Health and Human Development (NICHD) is seeking candidates for the position of Chief, Contraceptive Development Branch (CDB). This position is located in Rockville, Maryland, and is a permanent full-time position with a salary of $64,233 to $83,502 per annum commensurate with qualifications.

The Chief, CDB is responsible for directing, planning, managing and evaluating a program of contracts, grants, and centers conducting research on the development of new and improved methods of fertility regulation. Applicants for this position must have an advanced degree (Ph.D./MD) or equivalent experience in biomedical sciences and have experience in contraceptive development. Experience with NIH programs is desirable. Send Applications for Federal Employment (SF-171) to:

Ms. Robin A. Avent
NICHD/NIH
Building 31, Room 2A25
9000 Rockville Pike
Bethesda, MD 20892

For application forms and a copy of the requirements, contact the NICHD Personnel Office on (301) 496-3365. The deadline for applications is September 12, 1992.

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

The University of Minnesota Department of Surgery, Division of Surgical Sciences is seeking a Professor (tenured)/Program Director to lead and direct its Immunology Research Program regarding immunosuppressive and antiarthritic drug research.

QUALIFICATIONS:
Individual must have a Ph.D. in Immunology and should have 10-15 years of experience in an academic setting and/or pharmaceutical company doing original research. Experience in drug development with a pharmaceutical company including FDA submission is mandatory. Individual must have a national reputation in research with evidence of leadership in candidate's professional field.

RESPONSIBILITIES:
Individual will be responsible for the overall direction of the Immunology Research Program as well as working with physicians in the design and interpretation of clinical trials. The individual will develop, implement, and advise on resource development. He/She will coordinate reports, displays, publications, and other results of the Immunology Research Program. Individual will develop and maintain liaisons with other University staff and students as needed and will stay current with developments within the field and broaden knowledge and expertise. Individual will carry out research, teaching, and administrative duties. Individual will contribute to the development of the program through participation in national and/or international associations, publications, and/or other related activities.

Send curriculum vitae by September 15, 1992 to:

Rosalie Cihlar
Executive Secretary
Surgery Department
University of Minnesota
Box 195 UMHC
Minneapolis, MN 55455

THE UNIVERSITY OF MINNESOTA IS AN
EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER

Vice Dean for Graduate Studies and Research

Hahnemann University

A search is underway for a Vice Dean for Graduate Studies and Research at Hahnemann University. Hahnemann is a modern, progressive health sciences institution located in the dynamic center city Philadelphia. Hahnemann is comprised of the School of Medicine, the Graduate School, the School of Health Sciences and Humanities, and Hahnemann Hospital, a 616-bed tertiary care center. Approximately 2,000 students are matriculated in the three schools of the University, and the University has over 4,000 employees.

The Graduate School has 22 Master's and 12 Ph.D. programs with 647 students. Hahnemann is making a major effort to enhance research. Extramural funding is $17,000,000 (an 86% increase over 1988). The Vice Dean will report to the Dean of the Graduate School and Vice President for Research. The Vice Dean will be responsible for the management of all aspects of the Graduate School, including recruitment, admissions, and student affairs. In addition, he/she will play an important role in research development.

The successful candidate must have an earned doctorate in a biomedical-related area and a strong record of academic achievement, including publications and the garnering of competitive research funding. He/she must qualify for appointment at the Professor level in an academic department.

Nominations or applications, including a curriculum vitae and the names of three references, are due no later than September 30, 1992, and should be sent to: Stephen R. Max, Ph.D., Dean, Graduate School and Vice President for Research, Hahnemann University, Broad & Vine, Mail Stop 480, Philadelphia, PA 19102-1192. Hahnemann is an Equal Opportunity Employer, an Affirmative Action Employer, and invites and encourages applications from women and minorities.
POSTDOCTORAL RESEARCH ASSOCIATE

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RESEARCH ASSISTANT

RESEARCH ASSISTANT

RESEARCH ASSISTANT

RESEARCH ASSISTANT
Research Investigator
Hematology

Searle, a world-wide leader in the research, development and manufacture of high quality pharmaceuticals, is seeking a Research Investigator who shares our vision of excellence.

The selected individual will be responsible for method development and problem solving of key issues in drug development in the areas of thrombosis, immunology, and biotechnology.

Qualified candidates will possess a B.S. or M.S. in life sciences or medical technology and experience in standard hematologic assays. Experience with novel techniques, including flow cytometry, is preferred.

In return for your expertise, Searle offers an outstanding salary/benefits package. For consideration, please send your resume to: Searle, Human Resources, Dept. PB38, 4901 Searle Parkway, Skokie, IL 60077. An equal opportunity employer M/F/H.

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Vice President and Provost for Health Affairs and Executive Director
University of Connecticut Health Center
Proposed Advertisement

The President and the Board of Trustees of the University of Connecticut invite applications and nominations for the position of Vice President and Provost for Health Affairs and Executive Director of the University of Connecticut Health Center. The successful candidate will possess recognized qualifications of leadership and academic achievement to provide for further dynamic development of the Health Center as an institution of national renown.

The University of Connecticut Health Center is located in Farmington, Connecticut, seven miles west of Hartford, and is the only campus of the University solely devoted to the health sciences. It is the site of the School of Medicine, School of Dental Medicine, and a division of the Graduate School and offers advanced health professional degrees, doctoral degrees in the biomedical sciences, and fellowship and residency training in a wide range of medical and dental specialties. The Health Center also has major clinical activities with over 275,000 outpatient visits annually. The campus is a significant center for basic, clinical, and behavioral science research activities with greater than $35 million in external funding support annually. The 1991-92 total student enrollment was approximately 1400. The Health Center employs more than 3,800 individuals and the campus annual operating budget is approximately $300 million.

The Vice President and Provost reports to the President and is the chief executive officer responsible for all aspects of the administration of the University of Connecticut Health Center and two hospitals, the John Dempsey Hospital in Farmington and the UConn on Thames Hospital in Norwich. Candidates should have demonstrated experience in the administration of substantial organizations, preferably in an academic health center environment, have demonstrated skills in development, have doctoral level education, and have a strong record of scholarship and research activity which would qualify them for a faculty appointment in one of the schools. Salary level is competitive.

Applications, accompanied by current résumés, and nominations should be sent to:

Dean Robert Gray
Chair, Vice President Search Committee
Dental Student Affairs Office
MC 3905
The University of Connecticut Health Center
Farmington, Connecticut 06030

Screening will begin immediately and will continue until the position is filled. It is our goal to fill the position as early as January 1, 1993. The University of Connecticut has a strong commitment to the principle of diversity and, in that spirit, seeks a broad spectrum of candidates including women, members of minority groups, and people with disabilities.
Postdoctoral Fellows

The R.W. Johnson Pharmaceutical Research Institute in La Jolla, California has an opening for a two-year Postdoctoral Research Fellow appointment.

The position is available immediately in the Vascular Biology group to study novel molecular mechanisms that contribute to leukocyte infiltration during pathophysiologic inflammatory reactions. Current research efforts focus on structural and functional analysis of cell surface molecules involved in leukocyte-endothelial cell interactions. The work involves protein biochemistry and recombinant DNA technology. Applicants should have a strong background in molecular biology and cell biology.

This position provides liberal research support, excellent library facilities, and a good benefits package as part of Johnson & Johnson, the world’s largest and most comprehensive provider of health care products. Please submit your curriculum vitae to: Human Resources Manager, R.W. Johnson Pharmaceutical Research Institute, 3535 General Atomics Court, Suite 100, San Diego, CA 92121. An Equal Opportunity Employer.

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Candidates must have 5+ years experience working with antibodies, protein/polymer modification and conjugation.

Protein/Polymer Chemists-MS
Several openings exist for Chemists with 3-5 years experience working with antibodies to include protein/polymer modification and conjugation. Product development/scale-up experience is desirable.

Research Scientist-BS/MS
Position offers both research and product applications development opportunities. 4+ years R&D experience in cellular immunology, immunochemistry and protein chemistry with some knowledge of molecular biology are required.

Biochemist-BS
R&D opportunity for qualified individual to assist in characterization and sizing of magnetic particles.

At Immunicon, we provide competitive salaries and benefits in an invigorating research environment where new ideas are encouraged. Qualified candidates should submit resume, indicating position desired, to: Human Resources, Immunicon Corporation, 1310 Mason Mill II, Huntingdon Valley, PA 19006. EOE.

DIRECTOR POLAR RESEARCH

The NATIONAL RESEARCH COUNCIL is seeking a Staff Director for its Polar Research Board. Responsibilities include management and development of new projects, supervision of professional and support staff, and interactions among relevant professional communities and government agencies. Requires an MA/MS or equivalent in the natural or social sciences or a related field pertinent to development and management of polar science programs; at least 8 years experience in research, policy analysis and formulation, and program management; knowledge and understanding of both scientific and policy issues associated with polar research activities; familiarity with relevant national and international scientific communities and government agencies; and effective oral and written communication skills. Please send resume and other supporting materials in confidence to: NRC/CGER-SR, HA 466, 2101 Constitution Avenue, N.W., Washington, DC 20418. EOE.
Miles Inc., Pharmaceutical Division, has an exciting career opportunity for an independent, research-oriented individual at the Miles Research Center in West Haven, CT:

RESEARCH SCIENTIST
A molecular biologist is needed to conduct basic research on insulin action for the development of novel therapies for diabetes. The successful applicant will have two or more years of postdoctoral experience and will have extensive training in homologous recombination, anti-sense technology and other methods necessary to perform gene-knockout studies in eukaryotic cells. The candidate should demonstrate evidence of innovation and productivity by a strong publication record, and be able to work efficiently in a multidisciplinary team.

We offer attractive compensation and generous benefits. Resumes, including salary history, should be forwarded in confidence to: Miles Inc., Pharmaceutical Division, Dept. AANL, 400 Morgan Lane, West Haven, CT 06516. No phone calls please.

An Equal Opportunity Employer M/F/D/V

ASSOCIATE RESEARCH SCIENTIST
A recent PhD or Postdoc in neuroscience, neuropharmacology or related area is needed to take a leadership role in basic and clinical laboratory interacting with NYU's strong biological psychiatry group. Areas of major interest include schizophrenia, brain metabolism (PET), movement disorders, and substance abuse. Applicants must have strength in neuroscience and biochemical methodology, leadership talents, initiative in developing and implementing grants and projects, good writing skills, and good interpersonal skills.

ASSISTANT RESEARCH SCIENTIST
We're looking for a PhD in Pharmacology/Neuroscience to participate in neuroscience molecular pharmacology research. Experience in mammalian cell culture is required. Interest and/or experience in signal transduction, second messengers, and molecular neurobiology is desirable.

Interested applicants please send CV to Maha Singh, Human Resources, NYU Medical Center, 550 First Ave., New York, NY 10016. EOE, M/F.

RESEARCH SCIENTIST
YEAST GENETICS
ZeaGen, Inc. (formerly Coors BioTech) is currently seeking a highly motivated scientist to join our Microbial Genetics Group. This position will play a key role in projects involving the modification of microbial metabolic pathways for the production of vitamins and specialty chemicals. The minimum requirement for this position is a Ph.D. with 2 years of postdoctoral training or equivalent research experience in a relevant industry. The successful candidate will have demonstrated excellence in yeast genetics and gene expression. Excellent communication skills are required, and a willingness to work as a member of a multidisciplinary project team.

We are also seeking qualified individuals at the BS/MS level with 1-2 years of research experience. These positions require a degree in Microbiology, Biochemistry, or Molecular Biology, and a desire for professional development in an industrial research environment.

ZeaGen's research facilities are located in Fort Collins, an attractive university community convenient to the recreational opportunities available in Colorado. We offer a competitive compensation and benefits package, as well as the opportunity to live in the affordable Rocky Mountain region.

Please submit your curriculum vitae and salary requirements to:
ZeaGen, Inc.,
Personnel #DM-92
6204 South College Avenue
Fort Collins, CO 80525
Equal Opportunity Employer
ANNOUNCEMENTS

GRADUATE FELLOWSHIPS
The University of Maryland, Center for Environmental and Estuarine Studies is pleased to announce the immediate availability of financial support of graduate student research as part of the Multiscale Experimental Ecosystem Research Center (MEERC), one of four Exploratory Research Centers established by the U.S.E.P.A. A Canadian Academy of Sciences team of scientists will explore scale-dependent responses of landscape ecosystems to nutrient and contaminant inputs. For information contact: Dr. Thomas C. Malone, Director, Horn Point Environmental Laboratory, Box 775, Cambridge, MD 21613. Affirmative Action/Equal Opportunity Employer.

REQUEST FOR PROPOSALS to conduct a theoretical review of the demographic approach to evaluating the human population dynamics of the Northern Spotted Owl. The review must be completed by January 4, 1993. Applicants should submit a letter of intent, budget, and curriculum vitae by September 1, 1992. Proposals and inquiries should be sent to: Dr. Robert J. Taylor, Director of Wildlife Ecology, California Forestry Association, 1311 1 Street, Sacramento, CA 95814, telephone: (916) 444-6592.

THE UNIVERSITY OF WISCONSIN
E. coli genome sequencing project has openings for: Scientist, postdoctoral, manager, programmer, technician with expertise in biology, sequencing, biocomputing or informatics. Submit letter of application and curriculum vitae to: Frederick Blattner, Laboratory of Genetics, 445 Henry Mall, Madison, WI 53706 The University of Wisconsin is an Equal Opportunity Employer.

COURSES AND TRAINING

POSTDOCTORAL PROGRAM IN CLINICAL CHEMISTRY AND IMMUNOLOGY DIRECTED BY ST. BONIFACE GENERAL HOSPITAL UNIVERSITY OF MANITOBA WINNIPEG, MANITOBA

Applications are now being accepted for a position in a three-year postdoctoral training program in Clinical Chemistry (approved by the Canadian Academy of Clinical Biochemists and the American Association for Clinical Chemistry) to start July 1, 1993. Candidates must have a PhD with a good background in either Chemistry, Biochemistry, Pharmacology, Immunology, or a related discipline, or an M.D. degree. The Department of Clinical Chemistry provide service research and teaching for two University Hospitals with a total of 1,750 beds, and a School of Medicine. Starting salary will be approximately $30,000.00. Applications including curriculum vitae and three letters of reference should be sent by November 1, 1992 to: Dr. P. Desjardins, Department of Clinical Chemistry, Health Sciences Centre, 820 Sherbrook Street, Winnipeg, Manitoba, Canada, R3A 1R9; telephone: (204) 787-2843, FAX: (204) 787-3846.

RESEARCH TRAINING IN GERONTOLOGY

Positions available in NIA training program directed toward basic research in gerontology with special emphasis on the nutritional manipulation of the aging processes. General areas include metabolism and exercise, endocrinology and neuroendocrinology, free radical and membrane lipid peroxidation, immunology, cellular calcium and bone metabolism, molecular biology and regulation of gene expression. Send curriculum vitae, description of research interests and the names of three references to: Dr. Byung P. Yu, Department of Physiology, University of California, San Francisco, CA 94143. The program is supported by grant AG 05315-02 from the National Institute of Aging. Applications should be received by October 1, 1992.

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