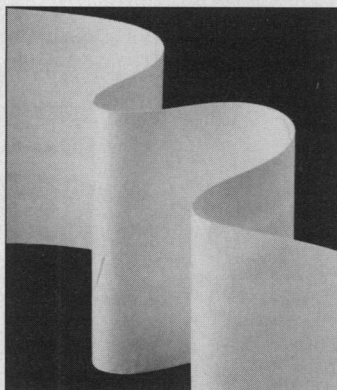


Filtration Medium for DNA Extraction

Leukosorb filtration medium is designed to immobilize white cells from whole blood or packed red cells. The medium provides a 1-hour method for extracting DNA from whole blood and eliminates all centrifugation steps. The resulting DNA lysates can be used directly for hybridization or for polymerase chain reaction amplification. The medium pro-



vides a quick and convenient method for blood sample preparation. **Pall Corp. Circle 140.**

Primer Design Software

The EuGene program for IBM-compatible computers finds the ideal oligonucleotides for DNA amplification, sequencing, and hybridization. It combines the crisp response of a DOS program with an intuitive graphical user interface and state-of-the-art selection algorithms. EuGene determines the best oligonucleotides for a particular task by considering a range of lengths and melting temperatures, as well as maximum AT run lengths and GC content, hairpin system sizes, palindromes, primer-dimer formation, 3' stability, and much more. The user can rate the importance of up to eight characteristics to make the program design oligonucleotides tailored to a specific application. The software will also check for uniqueness in the target DNA sequence, search for homology files of re-

peat sequences, evaluate a pre-designed oligonucleotide, choose a companion oligonucleotide for polymerase chain reaction that will work with an existing oligonucleotide, and allow the addition of restriction enzyme sites to the oligonucleotides it designs. **Daniben Systems. Circle 141.**

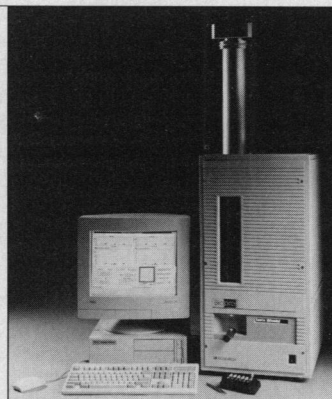
Monoclonal Antibodies

A mouse monoclonal antibody (mAb) is available directed against bcl-2 encoded proteins, which have been shown to inhibit apoptosis, programmed cell death; bcl-2 has been shown to protect mammalian cells from growth factor withdrawal, sodium azide, colchicine, DNA, RNA, and protein synthesis inhibitors, as well as steroids, heat shock, and irradiation. The mAb works in staining of frozen sections and paraffin-embedded sections and cells. **Oncogene Science. Circle 142.**

New mAbs against mouse and human Fas antigen for studies in apoptosis can be used in flow cytometric analysis and induction of apoptosis in vitro via antibody-antigen interaction. New products for cell cycle analysis include antibodies against p21 and p16, both of which are inhibitors of cyclin-cdk protein kinases and have been implicated in tumor suppression. Applications include protein immunoblotting and immunoprecipitation. **PharMingen. Circle 143.**

Mass Analysis System

The BioPro Ez1000 is a time-of-flight mass spectrometer designed for use by biochemists and technicians in a life science laboratory for rapid and accurate identification and characterization of



biomolecules. The system combines an intuitive graphical user interface, powerful analytical software, and dependable hardware with new technology in sample preparation. The new sample preparation technology, called EzPrep, does away with the several steps of sample preparation normally required in matrix-assisted laser desorption ionization time-of-flight mass spectrometry. The proprietary, patent-pending chemistries of the EzPrep substrates with their pretreated surface make it possible to simply spot the sample onto the substrate and begin gathering results. **Biosearch. Circle 144.**

High-Quality DNA Purification

The ClearCut miniprep kit is a phenol- and chloroform-free method for isolating pure DNA. The simple protocol requires only a microcentrifuge to process high-yield, small-scale plasmid preparations within 20 min. The versatile kit can be used to perform buffer exchanges and to remove primers and dNTPs from polymerase chain reaction products in only 5 min. Multiple enzymatic manipulations of DNA may leave behind impurities or conflicting buffers from the previous experiment. The kit can be used to bind the DNA, wash away all the reaction components, and elute the

DNA in water or buffer. The extracted DNA can be used directly in restriction, ligation, and sequencing reactions. **Stratagene. Circle 145.**

Easy Genomic DNA Isolation

The Easy-DNA Kit works with blood, cells, or tissues in a four-step, 90-min procedure to isolate genomic DNA. Simply lyse, precipitate proteins, extract, and precipitate the DNA to yield genomic DNA between 100 and 200 kb. The kit makes use of small samples of blood (1 to 100 µl) or large samples of tissue (0.5 to 1 g). Typical yields are 25 µg for 1 ml of blood and 150 µg for 50 mg of liver tissue. **Invitrogen. Circle 146.**

Literature

Guide to Autoradiography describes in detail the theory and background of autoradiography techniques. Ranging from the choice of radioactive labels to the use of nonradioactive electrochemiluminescent detection, the guide is up to date and easy to read. **Amer-sham International. Circle 147.**

Markson Science Catalog contains more than 1500 new products, including complete sections for pH instruments and electrodes, environmental analysis, glassware and plasticware, safety products, specialty lab supplies, filters and filtration products, and portable instruments for the field. **Markson. Circle 148.**

Fluorescence Filters and Multiparameter Analysis describes the advantages of using fluorescent labels in biomedical research, and the place proper selection of optical filters holds for successful results. **Biological Detection Systems. Circle 149.**

Heated restrictors solve plugging problems describes a solution for a problem in supercritical fluid extraction. **Isco. Circle 150.**

Newly offered instrumentation, apparatus, and laboratory materials of interest to researchers in all disciplines in academic, industrial, and government organizations are featured in this space. Emphasis is given to purpose, chief characteristics, and availability of products and materials. Endorsement by *Science* or AAAS is not implied. Additional information may be obtained from the manufacturers or suppliers named by circling the appropriate number on the Readers' Service Card and placing it in a mailbox. Postage is free.

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Prepare double-spaced typewritten copy. Do not include any abbreviations. *Science* will edit and typeset ads according to *Science* guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training. *Science* will provide a cost ESTIMATE for line ads. This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and resulting final cost. Purchase orders must allow for some degree of flexibility and/or adjustment. *Science* cannot provide proofs of typeset line ads.

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Janis Crowley
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CONDITIONS: Personnel advertising is accepted only with the understanding that the advertisers do not discriminate among applicants on the basis of race, sex, religion, age, color, handicap or sexual preference. The AAAS encourages employers to actively recruit and employ underrepresented minority groups. *Science* reserves the right, at its discretion, to edit or decline to publish advertisements submitted to it.

POSITIONS OPEN

FACULTY POSITIONS IN PHYSIOLOGY AND BIOPHYSICS

The Department of Physiology and Biophysics at the Finch University of Health Sciences/The Chicago Medical School invites applications for two tenure-track faculty positions at the **ASSISTANT, ASSOCIATE** or **FULL PROFESSOR** level. Applicants should have a strong record of scholarship and experience using state-of-the-art approaches to studying physiological mechanisms at the systems, cellular or molecular level. The individuals will be expected to maintain an independent and externally funded research program that complements the research interests of the current faculty, and to contribute to the graduate and medical teaching programs in the department. Rank will be commensurate with the level of experience. Applicants for appointment at more senior levels should have an established research program, with a history of highly regarded publications. The quality of the applicant's publications will be a primary consideration in the selection process at all ranks; therefore, applicants are requested to submit no more than three of their most well-regarded original research publications to be used as a basis for this evaluation. They should also send a copy of their curriculum vitae including a statement of future research interests and the names of three persons who may be contacted as references to: **Robert F. Rakowski, Ph.D., Chairman, Department of Physiology and Biophysics, Finch University of Health Sciences/The Chicago Medical School, 3333 Green Bay Road, North Chicago, IL 60064.** *Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.*

MICHIGAN STATE UNIVERSITY- DEPARTMENT OF ENERGY PLANT RESEARCH LABORATORY Faculty Positions in Plant Biology

The Michigan State University-Department of Energy Plant Research Laboratory has two tenure-track faculty positions available at the **ASSISTANT PROFESSOR** level. Persons conducting innovative research in plant biochemistry or plant responses to pathogenic microorganisms are particularly encouraged to apply; however, outstanding candidates in other areas of plant biology will be seriously considered. Preference will be given to individuals working in underdeveloped areas that show promise for future advances.

The Plant Research Laboratory, with major funding from the U.S. Department of Energy provides a stimulating atmosphere and excellent facilities for research in the plant sciences. Faculty members are jointly appointed in an appropriate academic department. Adequate laboratory space and set-up funds as well as continuing research support will be provided.

Applicants should have postdoctoral research experience with demonstrated productivity and evidence of potential for independent research. To assure consideration, applications should be received by November 1, 1994. Applications, including curriculum vitae, description of research accomplishments and future interests, and three letters of reference, should be sent to: **Kenneth Keegstra, Director, MSU-DOE Plant Research Laboratory, Michigan State University, East Lansing, MI 48824.** *Michigan State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are particularly encouraged to apply.*

ASSISTANT PROFESSOR tenure-track position in wildlife ecology. Teaching responsibility (60%): undergraduate courses in vertebrate zoology and ornithology (or other vertebrate taxon course meeting the needs of the department) and an upper-division/graduate course in wetland ecology. Research responsibility (40%): develop and conduct a research program in wetland or riparian zone ecology. Ph.D. in ecology, wildlife science, or a related field is required as well as demonstrated knowledge and interest in wetlands ecology and associated wildlife. A complete position description is available upon request. Send résumé, transcripts, copies of leading publications, and a statement of teaching philosophy and research interest. Also arrange to have at least three letters of reference sent. Address correspondence and inquiries to: **Dr. R. K. Swihart, Chair, Wildlife Ecology Search Committee, Department of Forestry and Natural Resources, Purdue University, West Lafayette, IN 47907-1159.** Review of applications begins November 30, 1994. *Purdue University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.*

POSITIONS OPEN

EXPERIMENTAL MYCOLOGIST UNIVERSITY OF GEORGIA

The Department of Botany invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level beginning September 1, 1995. The successful candidate is expected to have strong graduate or postdoctoral training in mycology, a knowledge of fungal diversity, and a demonstrated ability to conduct independent research. The development of an internationally recognized research program in mycology is expected. Teaching responsibilities will include a graduate level course in Experimental Mycology. Among research areas of interest are: growth and development, cell biology, evolution, and host-pathogen interactions.

Applications should include the following: 1) curriculum vitae, 2) statement of teaching and research interests, 3) three letters of reference, and 4) no more than three reprints of representative research.

Please forward application materials by November 1, 1994, to:

Dr. David Porter
Chair of the Search Committee
Department of Botany
University of Georgia
Athens, GA 30602

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

DEPARTMENT OF PATHOLOGY AND LABORATORY MEDICINE Medical University of South Carolina

The Department of Pathology and Laboratory Medicine of the Medical University of South Carolina is recruiting for Research faculty at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level. Applicants for this tenure-track position must possess a Ph.D. or M.D. and have at least two years of postdoctoral training. Candidates would be expected to develop a vigorous, externally funded, independent research program involving cell or molecular biology related to neoplasia. The successful candidate would also be expected to collaborate with other faculty in the Research Division to generate multidisciplinary projects related to tumor biology. Teaching duties would involve training of graduate students and postdoctoral fellows and a limited role in specialized courses for graduate or medical students. Salary level will be commensurate with experience and expertise. Please respond to: **A. Julian Garvin, M.D., Ph.D., Professor and Chairman, Department of Pathology and Laboratory Medicine, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.** *The Medical University of South Carolina is an Equal Opportunity Employer.*

MICROBIOLOGIST, ASSISTANT PROFESSOR, tenure-track beginning fall 1995 in department of seven persons. Ph.D. required. Strong commitment to undergraduate teaching. To teach Microbiology, Molecular Biology and/or Immunology. Participate in freshman Cell Biology, college-wide programs, and develop a research program involving undergraduates. Send curriculum vitae, statement of teaching goals, three letters of reference, and transcripts to: **Dr. David Jordan, Vice President for Academic Affairs, Austin College, Sherman, TX 75090-4440.** Review of applications begins October 15, 1994. *Austin College is an Affirmative Action/Equal Opportunity Employer.*

MOLECULAR/CELL BIOLOGY ASSISTANT/ASSOCIATE PROFESSOR

The Biology Department seeks applicants for the position of **ASSISTANT/ASSOCIATE PROFESSOR**. Applicants must have demonstrated outstanding potential for independent work in the area of Molecular or Cell Biology. The Biology department consists of 19 faculty most of whom employ genetic and molecular approaches to problems in cell, molecular and developmental biology, evolutionary biology and ecology. Many additional faculty with interests in Cell and Molecular Biology are located in the adjacent Medical School. Applicants should submit, as soon as possible, but before November 1, 1994, a curriculum vitae, a bibliography, a description of research and teaching interests and ask three references to send letters of recommendation to: **Chairman, Molecular/Cell Search Committee, Department of Biology, University of Rochester, Rochester, NY 14627.** *The University of Rochester is an Affirmative Action/Equal Opportunity Employer.*

POSITIONS OPEN

ASSOCIATE PROFESSOR/ASSOCIATE DIRECTOR MICROBIOLOGY DIVISION Department of Pathology University of California, Irvine

The Department of Pathology is seeking a qualified candidate at the level of tenured **ASSOCIATE** or **FULL PROFESSOR**. Applicants must have an established record of teaching and basic and applied scholarly research accomplishments. The individual chosen will serve as the **ASSOCIATE DIRECTOR** of the Medical Microbiology Division within the Pathology Department with specific service and teaching responsibilities in the Bacteriology and Mycobacteriology Sections. Experience in the laboratory diagnosis of sexually transmitted diseases and mycobacterial infections is desirable. The candidate will be expected to demonstrate ability to compete for extramural funding to support a research program. The Candidate for the position should be a nationally recognized Microbiologist with an M.D. or Ph.D. degree and appropriate licensures. The position will be open until filled. Résumés and inquiries should be directed to: **Yutaka Kikkawa, M.D., Professor and Chairman, Department of Pathology, University of California, Irvine, Irvine, CA 92717-4800.** *The University of California, Irvine is rooted in education and enriched by diversity.*

JUNIOR FACULTY POSITIONS Indiana University, Bloomington

The Department of Chemistry invites applications for tenure-track faculty positions in analytical and organic chemistry at the **ASSISTANT PROFESSOR** level beginning in the fall of 1995. These positions will require the ability to organize and present courses at both the graduate and undergraduate levels. Potential applicants must show exceptional promise of establishing a vigorous, independent research program in an academic setting. To apply please submit a curriculum vitae, a publication list, and a short résumé of ideas for the development of research programs, and arrange to have three letters of recommendation forwarded. The deadline for applications is October 15, 1994. All application materials should be sent to: **Professor Paul A. Grieco, Chairman, Department of Chemistry, Indiana University, Bloomington, IN 47405.** *Indiana University is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR HARVARD UNIVERSITY Molecular and Cellular Biology (MCB)

The Department of Molecular and Cellular Biology intends to make an **ASSISTANT PROFESSOR** appointment (entry level) available starting September 1995. Our department covers a broad range of topics in molecular biology, cellular biology, developmental biology, structural biology, neurobiology, and molecular genetics. We are seeking outstanding candidates. We strongly encourage applications from women and minority groups. Applications should include curriculum vitae, reprints of publications, and a statement of present and future research plans (one to three pages). Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than October 1, 1994, by: **MCB Search Committee, Harvard University, 7 Divinity Avenue, Cambridge, MA 02138.** Telephone: 617-495-2327. *Harvard University is an Affirmative Action/Equal Opportunity Employer.*

TENURE-TRACK ASSISTANT PROFESSOR/RUTGERS UNIVERSITY

The Institute of Marine and Coastal Sciences of Rutgers University invites applications for a position as a tenure-track **ASSISTANT PROFESSOR**. We seek an oceanographer with research interests in phytoplankton ecology and/or water column geochemistry. Experience in remote sensing desirable.

Applicants must have a Ph.D., and strong record of published research. The successful candidate will be expected to teach primarily at the senior undergraduate and graduate level, and to establish an innovative research program.

A curriculum vitae, a statement of research interests, and the names of four references should be sent prior to November 1, 1994, to: **Dr. J. Frederick Grassle, Director, Institute of Marine and Coastal Sciences, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903-0231.**

Rutgers University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

EVOLUTIONARY BIOLOGIST

The Division/Department 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 Evolutionary Biology, effective July 1, 1995. Preference will be given to those who study the mechanisms, patterns, or processes of evolution in natural populations of higher plants or animals, and to those who use modern methods such as, but not necessarily limited to, molecular markers and phylogenetic reconstruction. We seek a first-rate biologist with broad interests who is primarily motivated by evolutionary questions, conducts both field and laboratory research, and will actively interact with our division. The successful candidate will be expected to continue a strong research program, teach a genetics course specifically for undergraduate majors in our division, a graduate/upper division course in his/her area of expertise, and contribute to other teaching needs. To apply, please submit your curriculum vitae, publication list, statement of research interests, and names of three references by **January 14, 1995**, to: **William W. Murdoch, Chair, Department of Biological Sciences, University of California, Santa Barbara, CA 93106, USA.** *The University of California is an Equal Opportunity/Affirmative Action Employer.*

ASSISTANT PROFESSOR PSYCHOPHYSICS/COGNITIVE AND COMPUTATIONAL NEUROSCIENCE/NEUROPHYSIOLOGY

We invite applications for a tenure-track **ASSISTANT PROFESSOR** position in the Computation and Neural Systems Program and the Division of Biology at the California Institute of Technology. Applicant should conduct research toward understanding higher perceptual and cognitive functions in humans and other primates. The candidate should carry out a research program in at least two of the following areas: psychophysics, computational and cognitive neuroscience, and behavioral neurophysiology. The initial appointment term is four years, and appointment is contingent upon completion of Ph.D. Applicants should submit a curriculum vitae, a description of research and three reprints, and arrange for three letters of recommendation to be sent to: **Prof. Christof Koch, Division of Biology 139-74, California Institute of Technology, Pasadena, CA 91125.**

The California Institute of Technology is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans, and disabled persons are encouraged to apply.

HARVARD UNIVERSITY DEPARTMENT OF CHEMISTRY ASSISTANT PROFESSOR OF CHEMISTRY

Applications are invited for an **ASSISTANT PROFESSORSHIP** in any area of chemistry, including inorganic, organic, physical and interdisciplinary fields. Applicants should arrange to have three letters of recommendation sent independently and should provide curriculum vitae and brief descriptions of their future research plans. Applications and supporting materials should be sent no later than 1 November 1994 to: **Professor Roy G. Gordon, Chairman, Department of Chemistry, Harvard University, 12 Oxford Street, Cambridge, MA 02138-2902.** *Harvard University is an Affirmative Action/Equal Opportunity Employer. Applications from women and minority group members are encouraged.*

An **ASSISTANT PROFESSORSHIP** is available in the Department of Microbiology, Biozentrum, University of Basel for an individual with research interests in eukaryotic molecular microbiology. The successful applicant will be expected to take an active part in teaching microbiology to undergraduate and doctoral students. The position includes full salary support for the applicant, a doctoral student and a technician. Applications from qualified women are especially welcome. Applicants should send a curriculum vitae, list of publications, concise (one to two page) summary of future research interests and the names, addresses and FAX numbers of three to five scientists who may be contacted for a reference. This material should be sent before 1 December 1994 to: **Prof. Thomas A. Bickle, Department of Microbiology, Biozentrum, University of Basel, Klingelbergstrasse 70, CH-4056 Basel, Switzerland** who may be contacted for further information (Telephone: +4161 267 2120; FAX: +4161 267 2118; Email: bickle@ubaclu.unibas.ch)

POSITIONS OPEN

MOLECULAR, CELLULAR, OR SYSTEM NEUROBIOLOGIST. A tenured or tenure-track position is available immediately for a neurobiologist using molecular, cellular, or systems approaches to study neural organization, development, or plasticity. The position provides freedom of time to pursue research, a competitive 12-month salary, excellent core facilities, and generous start-up funds and laboratory space. Candidates for an **ASSISTANT PROFESSORSHIP** should have an ability to establish an independent and funded research program. Candidates for more **SENIOR APPOINTMENTS** should have an ongoing, funded program. Send curriculum vitae, a brief statement of research interests, and names of three references by November 18, 1994, to: **Chairman, Faculty Search Committee, Department of Anatomy and Neurobiology, Medical College of Ohio, Toledo, OH 43699-0008.** *Equal Opportunity/Affirmative Action Employer.*

DEVELOPMENTAL BIOLOGIST

The Department of Biological Sciences at the University of Notre Dame invites applications for a tenure-track faculty position at the **ASSISTANT PROFESSOR** level. The successful candidate is expected to develop and maintain an active research program in an area of modern developmental biology. Candidates whose research interests include vertebrate development are encouraged to apply, although outstanding applicants in other areas of developmental biology will be considered. Teaching responsibilities will be one course per semester and will include an advanced undergraduate lecture and laboratory course in developmental biology. The University of Notre Dame offers competitive salary and start-up package, and state-of-the-art research facilities. Applicants should submit curriculum vitae, a statement of research and teaching interests, and letters from three references by November 1, 1994, to: **Dr. Vicki J. Martin, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556.** *The University of Notre Dame is an Affirmative Action/Equal Opportunity Employer encouraging women and minorities to apply.*

HAVERFORD COLLEGE

The Molecular, Cellular and Developmental Biology Department seeks a tenure-track faculty member at the **ASSISTANT**, or possibly **ASSOCIATE PROFESSORIAL** rank for the fall of 1995. Successful applicants will teach undergraduates at all levels and receive teaching credit for maintaining an active research program with extensive undergraduate involvement. The successful candidate will teach formal and molecular genetics up to and including the junior level. A Ph.D. and postdoctoral research experience are required. Please send curriculum vitae, statements of teaching and research interests, and three letters of recommendation by November 15, 1994, to: **Dr. Judy Owen, Biology Search, Haverford College, Haverford, PA 19041-1392.** *Haverford College is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are especially encouraged to apply.*

FACULTY POSITION IN STRUCTURAL BIOLOGY

Applications are invited for a tenure-track faculty position at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level in the Department of Biochemistry of The Medical College of Wisconsin. We are interested in individuals with expertise in X-ray crystallography or a related area of structural biology. The successful applicant will join a well-funded department and will complement existing molecular, structural, and mechanistically oriented programs by establishing an independent research group. The successful applicant will also participate in the department's graduate and medical education programs. In addition to start-up funds, the department will provide state-of-the-art X-ray diffraction, molecular graphics, and computing facilities.

The position will be available on or after July 1, 1995. Consideration of applications will begin on November 1, 1994. Applicants should send curriculum vitae, recent reprints, statement of research interests and names of three references to:

**Structural Biology Search Committee
Department of Biochemistry
Medical College of Wisconsin
8701 Watertown Plank Road
Milwaukee, WI 53226-0509**

Affirmative Action/Equal Opportunity Employer.

MINNESOTA PUBLIC UTILITIES COMMISSION REQUEST FOR PROPOSALS

The Minnesota Public Utilities Commission requests expressions of interest, willingness, and qualifications, to be a member of a team of science advisors to assess the need for research and, if necessary, design, monitor, and evaluate research, regarding the effects on dairy production and animal health due to electrical currents in the earth. Team members with backgrounds in the following areas of specialization are called for: **physics, electrical engineering, animal physiology, veterinary medicine, dairy science, soil science** specializing in the electrical nature of soil, or **epidemiology**. Additional members from other relevant disciplines will be considered. Representatives of electrical utilities or other parties with a financial interest in the outcome of the project will not be considered.

Goal: The goal of this project is to have an independent team of qualified scientists conduct a credible scientific inquiry to clarify the nature of the relationship, if any, between dairy herd health and production, and electric currents in the earth originating from utility distribution systems and other sources.

Objective: To have a preliminary independent assessment of the need for research on this topic by January 1, 1995 and, if research is deemed necessary, design, monitor and provide a report as to the results of that research by June 30, 1996.

Sample Tasks: Legislation sets out certain duties for the science team. The tasks in **phase I** of the project will include: 1. Identify and review existing scientific and technical literature on the use of the earth for carrying current, and other subjects deemed relevant to effects on animal health and production and on human health. A preliminary assessment and report on the need for research is to be presented to the Commission by January 1, 1995. 2. Review information and data from dairy producer or farm organizations; material in Commission files including formal and informal complaints, and information gathered from the survey of the age and condition of distribution facilities in Minnesota; and other public input. 3. Make site visits to dairy farms in Minnesota with a past history of complaints of stray voltage or ground currents. 4. Exchange and evaluate information with other members of the science team, including discussions at team meetings. 5. Help prepare and review the preliminary assessment report on the need for further research to the Commission. If further research is recommended, **additional phase I tasks** for the science team will include: 6. Frame and recommend specific research questions, and define the scope, time needed, and estimated cost of future research. 7. Determine the types and qualifications of researchers or research organizations necessary to carry out the recommended research and develop selection criteria for the Commission. 8. Explore the availability of nonstate and nonutility sources for additional funds for the research. If the Commission orders further research and adequate funding is secured, a phase II contract period will begin. Additional tasks for the science team in **phase II** will include: 9. Make more detailed recommendations on the design of the research to be carried out. 10. Monitor the progress of the research conducted under this project, review and analyze preliminary data, and suggest further testing or evaluation procedures if necessary. 11. Help prepare and review a report on the results of the research study, including recommendations on potential actions to mitigate or eliminate any harmful effects found from current in the earth on dairy production and health. 12. Submit the report for scientific peer review. Make any response and changes to the final report as necessary. Responders are encouraged to propose additional tasks or activities if they will substantially improve the process of investigating this issue.

Each contractor will work as part of the team of science advisors. The team's activities on this project will be coordinated by a liaison appointed by the Commission as called for by MN. Laws 1994, Chapter 573. The team and the liaison will work with certain Commission staff on various aspects of the project. **The phase I contract will begin immediately upon execution and will be completed by June 30, 1995.** Further research, if deemed necessary, must, under the current requirements of the law, be completed by June 30, 1996. If further research is ordered by the Commission, contract renewals will be pursued, provided performance has been satisfactory.

This request for proposal does not obligate the state to complete the project, and the state reserves the right to cancel the solicitation if it is considered to be in its best interest. All proposals, and questions regarding this request for proposal, should be directed to: *Janet Gonzalez, Energy Unit Manager, Minnesota Public Utilities Commission, 121 7th Place East, Suite 350, St. Paul, MN 55101 612/296-1336.*

Other department personnel are **NOT** allowed to discuss the request for proposal with anyone before the proposal submission deadline. *All proposals must be received not later than 4:30 pm September 28, 1994.* Late proposals will not be accepted. The Commission has estimated that the cost of each team member phase I contract should not exceed \$20,000.

Submit three copies of a **statement of qualifications** and a current resume, including at least three business or professional references. Proposals must be signed in ink by the proposers. The statement of qualifications should include the following: 1. A statement of the objectives, goals, and tasks to show or demonstrate the responder's view of the nature of the contract. 2. A description of the deliverables to be provided by the responder. 3. An outline of the responder's background and experience, with particular emphasis on scientific research, participation on inter-disciplinary research teams, local, state, and federal government work, and examples of similar work done by the responder. 4. A statement regarding research and experience with electrical phenomena, animal physiology, dairy herd health and production, or other matters specifically related to the subject matter of this investigation. 5. A cost and work plan for phase I that will identify the anticipated tasks to be performed and be used as a scheduling and managing tool for the project, as well as the basis for invoicing. 6. A statement clarifying the extent to which the responder expects participation in the contract by Commission staff, as well as any other services to be provided by the Commission, and details of cost allowances for this participation.

All responses received by the deadline will be evaluated by representatives of the Minnesota Public Utilities Commission. An interview or proposal clarifications may be part of the evaluation process. A 100-point scale will be used to create the final evaluation. The factors and emphasis on which proposals in each specialization area will be judged are: 1. Expressed understanding of project—10% 2. Work plan—15% 3. Cost—5% 4. General qualifications of responder—50% 5. Specific qualifications of responder (see Item #4 above)—20%. It is anticipated that the evaluation and selection will be completed by October 15, 1994. The successful responder will be required to submit acceptable evidence of compliance with workers' compensation insurance coverage requirements prior to execution of the contract or demonstrate its non-applicability.

The state's contract language includes the following terms and conditions (summarized here) which you should be aware of in preparing your response: 1. Compensation will be for ALL services performed, unless a specific payment scheduled is mutually agreed upon. The state DOES NOT make regular payments based on the passage of time, it only pays for services performed or work delivered AFTER it is accomplished. 2. Payment is only made after the submission of an authorized invoice to the state, and the state must pay its invoices within 30 days of receipt, unless they are formally contested. 3. Reimbursement for travel and subsistence expenses actually incurred in performance of a contract is limited to terms in the "Commissioner's Plan" available from the Commissioner of Employee Relations. Travel outside of Minnesota must receive PRIOR written approval of the agency contact BEFORE it takes place. 4. No more than 90 percent of the full amount due under a contract may be paid until the final product(s) of the contract have been reviewed by the agency head, and the agency head has determined that the contractor has satisfactorily fulfilled all the terms of the contract.

POSITIONS OPEN

ECOLOGIST, ASSISTANT PROFESSOR

The Department of Biology at the University of Central Florida invites applications for a tenure-track nine-month position at the **ASSISTANT PROFESSOR** level. The successful candidate will be expected to develop a strong extramurally funded program in an area of ecology. The expertise and area of research interest should include one or more of the following: plant, population, conservation, evolutionary, applied, or behavioral ecology. Teaching duties will include undergraduate and specialty graduate courses. Ph.D. degree required and postdoctoral experience is preferred. Salary depends upon qualifications and experience. Send curriculum vitae, statement of research and teaching interests, official college transcripts, representative reprints, and the names, addresses and telephone number of three references to assess teaching and research potential to: **Chair, Ecology Search Committee, Department of Biology, University of Central Florida, Orlando, FL 32816-2368** postmarked by 6 October 1994.

An Equal Opportunity/Affirmative Action Employer.

GENETICIST. The Biology Department of Albion College announces a tenure-track position as **ASSISTANT PROFESSOR** to begin in August 1995. A Ph.D. is required, and teaching experience is preferred. The successful candidate will be expected to teach upper-level, undergraduate courses in general genetics with lab, including some human genetics, and introductory techniques in recombinant DNA technology. The candidate will also share responsibilities in introductory biology courses. Facilities include TEM, SEM, an incubator-shaker, controlled environment chambers, and a 135-acre nature center. A research program incorporating undergraduate students is expected. Albion College encourages applications from women and minority candidates. Send letter of application, current curriculum vitae, transcripts, and three letters of reference to: **Dr. Ruth E. Schmitter, Chair, Biology Department, Albion College, Albion, MI 49224.** Deadline for applications is October 15, 1994. *Albion College is an Equal Opportunity Employer.*

ASSISTANT PROFESSOR TOXICOLOGICAL SCIENCES Johns Hopkins University School of Hygiene and Public Health

The Division of Toxicological Sciences of the Department of Environmental Health Sciences is seeking to fill a tenure-track **ASSISTANT PROFESSOR** position in the area of Biochemical/Molecular Toxicology. Applicants should have formal training in toxicology and research experience and interests in the area of mechanisms of toxicity at the biochemical, cellular, and/or molecular levels. Women and minorities are encouraged to apply. Applicants should send a curriculum vitae, the names, addresses and telephone numbers of three scientists who can be contacted for letters of recommendation, and a description of their future plans for developing or continuing an independent research program to: **James D. Yager, Ph.D., Professor and Director, Division of Toxicological Sciences, Department of Environmental Health Sciences, Johns Hopkins School of Hygiene and Public Health, 615 North Wolfe Street, Room 7032, Baltimore, MD 21205.** Applications should be received prior to October 31, 1994. *Johns Hopkins University is an Affirmative Action/Equal Opportunity Employer.*

BIOLOGY, ASSISTANT PROFESSOR. The Department of Biology at Agnes Scott College invites applications for a tenure-track position in ecology/plant systematics starting August 1995. Teaching responsibilities include courses in plant systematics, ecology, environmental biology, and introductory-level biology. The candidate is expected to establish an ongoing research program and to provide research opportunities appropriate for undergraduate participation. Candidates are expected to have completed the Ph.D. by the time of appointment.

Agnes Scott College is a Presbyterian-affiliated, liberal arts college for women located in metropolitan Atlanta, Georgia. To ensure full consideration, applications should be received by October 3, 1994. Send letter of application describing teaching interests and scholarly plans; curriculum vitae; and names, addresses and telephone numbers of three professional references to: **Dr. John Pilger, Department of Biology, Agnes Scott College, Decatur, GA 30030-3797.** *Agnes Scott has a strong commitment to diversity and urges members of underrepresented groups to apply. An Equal Opportunity Employer.*

POSITIONS OPEN

MOLECULAR AND CELLULAR RESEARCH IN DIABETES

The Banting and Best Department of Medical Research, University of Toronto, is seeking candidates for the position of **ASSISTANT PROFESSOR, TENURE-STREAM.** The position is available July 1, 1995, and will carry an initial appointment of five years at a competitive salary.

Candidates should have a strong research background and be prepared to develop a research program in molecular and cellular aspects of diabetes mellitus (for example, mechanisms of hormone action, signal transduction, regulation of gene expression, genetics, and immunological aspects of diabetes). The successful candidate will be expected to obtain independent research grants, to spend at least 75% of her/his time in research, and to participate in graduate and undergraduate training.

Applicants should forward a curriculum vitae and an outline of research interests and arrange for three letters of reference to be sent directly to: **Dr. Cecil C. Yip, Professor and Chair, Banting and Best Department of Medical Research, University of Toronto, 112 College Street, Toronto, Ontario M5G 1L6 Canada,** to be received no later than December 31, 1994.

In accordance with its Employment Equity Policy, the University of Toronto encourages applications from qualified women and men, members of visible minorities, aboriginal peoples and persons with disabilities.

ASSISTANT PROFESSOR

The Department of Agronomy at the University of Wisconsin-Madison invites applications for a 12-month, tenure-track **ASSISTANT PROFESSOR** position with a 75% research and 25% teaching appointment. Research will involve genome organization, evolutionary genetics, and breeding methodology for small grains. Teaching will involve an undergraduate course on population/evolutionary genetics as well as participation in advanced courses in quantitative genetics. As leader of the University of Wisconsin small grains breeding program, the successful candidate will be expected to create improved germplasm for use in the north central region of the United States. A Ph.D. in plant breeding or genetics and demonstrated excellence in teaching and conducting plant breeding research are required. Send a letter of application, résumé with complete publication list, official transcripts, and names, addresses, telephone and FAX numbers of four references. Send applications to: **Dr. James G. Coors, Department of Agronomy, University of Wisconsin-Madison, 1575 Linden Drive, Madison, WI 53706-1597.** All materials are due by November 15, 1994. *The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are urged to apply.*

ASSISTANT PROFESSOR—BIOPSYCHOLOGY. University of Delaware, Psychology Department invites applications for a tenure-track position. Applicants must have a Ph.D. degree, at least two years of postdoctoral training, and ability to teach neuropsychopharmacology. The successful candidate will develop a productive research program, compete for extramural funds, and teach at both undergraduate and graduate levels. Any area of behaviorally oriented research is acceptable. Work using modern molecular and cellular biology techniques is preferred. Send curriculum vitae, letter of research plans, relevant reprints and at least three letters of recommendation by November 30, 1994, to: **Biopsychology Search Committee, Department of Psychology, University of Delaware, Newark, DE 19716-2577.** *The University of Delaware is an Equal Opportunity Employer which encourages applications from minority group members and women.*

ACADEMIC POSITION

ASSISTANT PROFESSOR. The Department of Chemistry and Biochemistry of The University of Texas at Austin solicits applications for a tenure-track **ASSISTANT PROFESSORSHIP** position beginning September 1996. Exceptional candidates in all areas of chemistry/biochemistry including chemical education will be considered. Candidates who have demonstrated outstanding research ability and show promise in teaching should forward a curriculum vitae, short descriptions of research plans, and three letters of reference by November 1, 1995, to: **Search Committee, Department of Chemistry and Biochemistry, The University of Texas at Austin, Austin, TX 78712.** *Equal Opportunity/Affirmative Action Employer.*

POSITIONS OPEN

ASSISTANT PROFESSOR NEUROBIOLOGY

The Department of Anatomy and Neurobiology, University of Kentucky, invites applications for two tenure-track positions at the **ASSISTANT PROFESSOR** level. Candidates must hold a Ph.D. and/or M.D. or equivalent degree with appropriate postdoctoral experience and publications. Both positions are for neurobiologists using cellular and/or molecular approaches to investigate development and/or regeneration and plasticity in the CNS. Each successful candidate is expected to develop a strong research program and contribute to departmental teaching responsibilities in medical and graduate education. Salary and start-up funds are highly competitive. The Department offers a stimulating environment and is committed to the highest quality in research and teaching. Application deadline is October 15, 1994. Interested candidates should submit curriculum vitae, descriptions of teaching experience, current and future research goals, and names and addresses of three references to: **Dr. Don Marshall Gash, Professor and Alumni Chair, Department of Anatomy and Neurobiology, University of Kentucky, MN224 Chandler Medical Center, Lexington, KY 40536-0084.** *The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.*

ASSISTANT PROFESSOR Physiology

The Department of Physiology and Neurobiology, University of Connecticut, Storrs, invites applications for an anticipated full-time tenure-track position at the **ASSISTANT PROFESSOR** level. Applicants must have a doctoral degree with broad training in physiology and at least two years of postdoctoral experience. The candidate will be expected to maintain an independent research program supported by extramural funding, directed towards understanding epithelial membrane transport mechanisms using cellular and molecular approaches. Applicants with an interest in comparative physiology are encouraged to apply. Participation in teaching of both graduate and undergraduate courses is required. Start-up funds and salary are competitive. Existing faculty interests include neurobiology, endocrinology, membrane transport and muscle physiology. Send curriculum vitae, a brief statement of research direction, and the names of three references to: **Professor Guillermo Pilar, Department of Physiology and Neurobiology, University of Connecticut, Box U-42, Storrs, CT 06269-3042.** *We encourage applications from underrepresented groups, including minorities, women and people with disabilities. (Search #4A301)*

CHAIR Department of Botany Iowa State University

The Department of Botany at Iowa State University invites nominations of, or applications from, outstanding scholars to chair this department of 19 faculty with research and teaching in ecology, physiology and molecular biology, and systematics and evolution. Candidates should have an outstanding research record, a commitment to vigorous support of research and education, and leadership and administrative skills.

Closing date for applications is December 1, 1994, or until the position is filled. Applicants should send curriculum vitae, a list of publications, a statement of personal perspective on research and teaching at a major university, and the names of five references to: **Chair of Search Committee, Department of Botany, Iowa State University, Ames, IA 50011.**

Women, minorities and members of other protected groups are strongly encouraged to apply. Iowa State University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR LAB MANAGER Salary Negotiable plus excellent benefits

Ideal candidate must have M.S. Degree or higher and familiarity with modern molecular biology techniques. Responsibilities include: management and maintenance of lab business operations, finances and equipment; assignment of lab duties to other lab personnel and other related duties as needed. Work 9-5, Monday through Friday. Send résumé with salary requirement to:

**Personnel Department
American Museum of Natural History
79th Street at Central Park West
New York, NY 10024-5192**

An Equal Opportunity Employer.

DEAN

UMDNJ-ROBERT WOOD JOHNSON MEDICAL SCHOOL

The University of Medicine and Dentistry of New Jersey is seeking a Dean for the Robert Wood Johnson Medical School.

The Dean is the chief academic and administrative officer of the School, with primary responsibility for its educational, research, patient care and service mission and programs.

An MD or other related terminal degree is required, with a strong background, including administrative experience, in medical education. Other qualifications include: recognition as a leader in biomedical research; ability to provide leadership in a complex academic environment; ability to represent the School and the University to external constituencies.

A letter of application or nomination and a current curriculum vitae should be submitted to:

David Carver, M.D., Chair
Dean Search Committee
c/o Department of Pediatrics
UMDNJ- Robert Wood Johnson Medical School
306A Medical Education Building
1 Robert Wood Johnson Place
New Brunswick, NJ 08903-0019

The Committee will begin reviewing the credentials of applicants immediately. The position will be available in April, 1995.

UMDNJ is an Affirmative Action/Equal Opportunity Employer m/f/d/v, and a member of the University Health System of New Jersey.



IMAGING SPECTROSCOPY WORKSHOP

Imaging spectroscopy is defined as the simultaneous analysis of both spatial and spectral information (s.e.g. *Nature* 369:79-80). This massively parallel technology enables one to determine the fluorescence or absorption spectra of all features within a two dimensional target.

Topics in Biotechnology, Environmental Sciences, and Medicine will include, but are not limited to:

- **Genetic screening** and mutagenesis
- Ground truthing for **remote sensing** data
- Multispectral analysis of **electrophoretic gels**
- In situ spectral analyses of stained **thin sections**
- Assaying the diversity of **microbial communities**
- Chromogenic and/or **fluorescent reporter genes**
- Microbes producing pigments as **natural products**
- Novel **indicator media** using multispectral reagents
- Spectroscopic indicators of **plant stress** and disease
- Colorimetric tracers of **morphology** and **development**

Researchers are encouraged to submit abstracts for individualized experiments that utilize prototype imaging spectrophotometers on site at the Workshop. For more information, contact the Workshop coordinator:

Dr. Douglas C. Youvan
Palo Alto Institute of Molecular Medicine
2462 Wyandotte Street
Mountain View, CA 94043 USA

E-Mail: PAIMM@AOL.COM
Phone: 415-694-1420 FAX: 415-694-7717



Mechanisms of Vascular Disease Training Program

Predoctoral positions and postdoctoral fellowships are available in the following areas:

Vascular cell biology - V. Kon, M.D. (Pediatrics), R. Haselton, Ph.D. (Biomedical Engineering), J. Hawiger, M.D., Ph.D. (Microbiology & Immunology), R. Hoover, Ph.D. (Pathology), V. Shepherd, Ph.D. (Medicine & Pathology)

Growth factors in vascular biology - T. Daniel, M.D. (Medicine & Cell Biology), H. Moses, M.D. (Cell Biology), E. Perket, M.D. (Pediatrics), J. Staros, Ph.D. (Molecular Biology), R. Coffey, M.D. (Medicine & Cell Biology)

Molecular biology of the vascular system - R. Briggs, Ph.D. (Pathology), T. Hazinski, M.D. (Pediatrics), A. Naftilan, M.D., Ph.D. (Medicine & Pharmacology), B. Meyrick, Ph.D. (Pathology), T. Quertermous, M.D. (Medicine and Molecular Physiology & Biophysics)

Biology of the extracellular matrix of vascular cells - J. Davidson, Ph.D. (Pathology), M. Haralson, Ph.D. (Pathology), L. Matrisian, Ph.D. (Cell Biology), G. Sephel, Ph.D. (Pathology), S. Russell, Ph.D. (Microbiology-Meharry Medical College)

Chemistry and enzymology of blood proteins - J. Beechem, Ph.D. (Molecular Physiology & Biophysics), A. Beth, Ph.D. (Molecular Physiology & Biophysics), P. Bock, Ph.D. (Pathology), P. Patston, D.Phil. (Medicine & Pathology), D. Vaughan, M.D. (Medicine & Pharmacology)

Lipid metabolism and lipoproteins - J. Capdevila, Ph.D. (Medicine & Biochemistry), L. Marnett, Ph.D. (Biochemistry), L. Swift, Ph.D. (Pathology), S. Fazio, M.D., Ph.D. (Medicine & Pathology), M. Linton, M.D. (Medicine)

Clinical research related to vascular disease - J. Atkinson, M.D., Ph.D. (Pathology), J. Loyd, M.D. (Medicine), D. Roden, M.D. (Medicine & Pharmacology), D. Robertson, M.D. (Medicine & Pharmacology)

Funding through NIH NRSA: only U.S. citizens and permanent residents are eligible

Contact Richard L. Hoover, Vanderbilt University School of Medicine,
Department of Pathology, Nashville, Tennessee 37232-2561
(615) 322-2102 Fax (615) 343-7023

An Equal Opportunity/Affirmative Action Employer

CONFERENCE DIRECTOR

The New York Academy of Sciences seeks a dynamic professional to advance the Academy's mission through its renowned conference program. The Academy, with an international membership of 40,000, recently set a new strategy for the 1990's aimed at serving both the research community as well as social and economic goals involving science and technology. The Conference Department plans and convenes 10-20 conferences a year in New York and elsewhere on current research in science, engineering, medicine, interdisciplinary areas, and policy issues.

Candidates must hold a BA/BS degree and have at least five or more years of experience with substantial managerial responsibility. A strong scientific or engineering background and familiarity with public outreach are preferred. The successful candidate will have:

- Demonstrated success in strategic planning, market analysis and program management
- Excellent supervisory and implementation skills
- Strong and imaginative written and oral communications and a record of effective team work with colleagues, volunteer advisors, and Board members
- Proven experience in proposal writing and fundraising

This is a full-time position reporting to Chief Executive Officer. Some travel required. Salary is competitive and based on qualifications and experience. Excellent benefits package.

Qualified candidates should send letter describing background, along with a resume, list of references, and salary history by September 30, 1994:



Director, Human Resources
The New York Academy of Sciences
2 East 63rd Street
New York, New York 10021

An Equal Opportunity Employer

POSITIONS OPEN

The Departments of Molecular and Human Genetics, and Pediatrics are jointly recruiting a **DIRECTOR** for the Baylor College of Medicine Mental Retardation Research Center (MRRC). The Baylor MRRC was founded in 1988, and is one of the 14 NICHD-supported Centers dedicated to the study of the prevention, treatment, and amelioration of mental retardation and developmental disabilities. The Baylor MRRC currently supports eight core laboratories, 53 research projects, 48 investigators from 13 departments, and one New Project Development Awardee. The successful applicant will be a Physician Scientist with an established research commitment to the molecular biology of mental retardation. Board certification in a Medical Genetics specialty and Pediatrics are desirable. Applicants should send a letter describing their commitment to mental retardation research and a current curriculum vitae, and should request that three letters of reference be sent to: **C. Thomas Caskey, M.D., Chairman, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.*

PROFESSOR AND CHAIR OF PHYSIOLOGY, School of Medicine and Biomedical Sciences, State University of New York at Buffalo. The successful candidate will have an internationally recognized record of achievement in research, as well as a commitment to professional, graduate, and undergraduate training programs for students in health-related professions. Previous administrative experience is desirable. Candidates should have a Ph.D., M.D., D.V.M., D.D.S., or equivalent degree. Salary, laboratory space, and other resources are negotiable. Interested persons should submit curriculum vitae, brief descriptions of research interests, and the names and addresses of three referees. All materials should be sent to: **Dr. John Hay, Chairman, Physiology Chair Search Committee, School of Medicine and Biomedical Sciences, State University of New York at Buffalo, 138 Farber Hall, Buffalo, NY 14214.** Deadline for receipt of application is December 31, 1994. *State University of New York is an Affirmative Action/Equal Opportunity Employer. Women and minority applicants are particularly encouraged to apply.*

RESEARCH BIOLOGIST/LAB MANAGER. Dr. Marc Kirschner's laboratory in the Department of Cell Biology needs a diplomatic problem-solver capable of managing a laboratory of 20+ researchers as well as carrying out initial stages of protein purification and experiments using recombinant DNA methods. Familiarity with cell cycle regulation, embryonic pattern formation, or cell morphogenesis preferred. B.S./M.S. in biological sciences and three to five years of research experience required. Competitive salary and outstanding benefits. No telephone calls, please. Résumés and names of references to: **Susan Thompson, Harvard Medical School, Employment Office, 164 Longwood Ave., Boston, MA 02115.** *Harvard is an Affirmative Action and Equal Opportunity Employer.*

PRESIDENT, MILWAUKEE PUBLIC MUSEUM, Milwaukee, Wisconsin. Milwaukee Public Museum is one of the largest natural and human history museums in the country. Its collections of 4.5 million specimens and artifacts are used by visiting scholars. Exhibits and education programs are renowned for their innovation. Operating budget of \$8 million, staff of approximately 200. The President must have vision, strong management and interpersonal skills, significant fundraising ability, and enthusiasm for developing productive working relationships with a broad range of individuals. At least ten years of experience as senior executive of a comparable institution and an advanced degree (Ph.D. preferred) in a relevant field are required. Contact: **Opportunity Resources, Inc., 25 W. 43rd St., New York, NY 10036.** FAX: 212-575-0297; Attention: Freda Mindlin.

DEAN, THAYER SCHOOL OF ENGINEERING DARTMOUTH COLLEGE

Applicants should have a doctoral degree in engineering or a closely related field and be eligible for a tenured full professorship in engineering as demonstrated by experience and excellence in teaching and research. Send applications and supporting materials to: **Professor Bengt Sonnerup, Chair, Thayer School Dean Search Committee, 6004 Parkhurst Hall, Dartmouth College, Hanover, NH 03755-3529** (Inquiries: 603-646-2883; sonnerup@dartmouth.edu). Review process starts in October 1994.

Dartmouth College is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITIONS IN BIOCHEMISTRY INDIANA UNIVERSITY, BLOOMINGTON

The Departments of Chemistry and Biology invite applications for four open **TENURE-TRACK POSITIONS** in biochemistry and molecular biology, two in each Department, to commence in fall of 1995. Each appointment will be part of Indiana University's Interdepartmental Program in Biochemistry and Molecular Biology. Candidates with significant postdoctoral experience and a strong record of research accomplishment in any area of biochemistry and molecular biology will be considered. Examples of research programs of interest include membrane biochemistry, signal transduction, nucleic acid or protein structure and biosynthesis, RNA processing, enzymology, environmental biochemistry, and combinatorial biochemistry. Successful candidates will be expected to develop a vigorous, independent research program and contribute to teaching. While we anticipate filling these positions at the level of **ASSISTANT PROFESSOR**, outstanding senior candidates also will be considered.

Applications should be submitted to either the Department of Chemistry or the Department of Biology, whichever department seems most appropriate to the applicant. Applications may be transferred for consideration. Applications should include a curriculum vitae and a summary of future research plans. Candidates at the Assistant Professor level should arrange to have three letters of recommendation forwarded to the Department. Applications received by November 1, 1994, will be assured of consideration. Send applications to:

**Norman R. Pace, Chair
Biochemistry Search Committee
Department of Chemistry or
Department of Biology
Indiana University
Bloomington, IN 47405**

Indiana University is an Affirmative Action/Equal Opportunity Employer.

The Division of Biology, California Institute of Technology, seeks a **JUNIOR FACULTY MEMBER** in the area of Immunology for a tenure-track position. Successful applicants are expected to generate creative and productive research programs that will interface with the diverse scientific interests represented in the Biology Division. Applicants should send a curriculum vitae, list of publications, and a brief statement of research interests and plans. In addition, the candidate should arrange to have three letters of reference sent directly to the search committee to coincide with receipt of the application. Letters of reference and applications should be sent to: **Ms. Joyce Kato, Immunology Search Committee, Division of Biology 147-75, California Institute of Technology, Pasadena, CA 91125.** The deadline for receiving applications and letters of reference is November 1, 1994. *The California Institute of Technology is an Equal Opportunity/Affirmative Action Employer and encourages the applications of qualified women and minorities, veterans and disabled persons.*

UCLA FACULTY POSITIONS UCLA-DOE Laboratory of Structural Biology and Molecular Medicine

The division of Structural Biology and Genetics of the UCLA-DOE Laboratory of Structural Biology and Molecular Medicine will appoint two faculty at the level of **ASSISTANT PROFESSOR** or **ASSISTANT PROFESSOR IN RESIDENCE**, jointly with departments in the College of Letters and Science or the School of Medicine. One position will be for a scientist in the area of NMR spectroscopy of proteins and the other in the broad area of protein structure and genetic approaches to structure. Set-up and research funds will come from the UCLA-DOE Lab. Candidates must have significant research accomplishments, the ability to establish a vigorous research program, and a commitment to excellence in education. Applicants should provide a curriculum vitae, a summary of proposed research, copies of key publications or preprints, and three letters of recommendation by November 1, 1994. Applications should be sent to: **Dr. David Eisenberg, Chair of Search Committee, Molecular Biology Institute, UCLA, Los Angeles, CA 90024-1570; FAX: 310-206-3914.** *UCLA is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority candidates.*

POSITIONS OPEN

FACULTY OF MEDICINE—DEPARTMENT OF SURGERY The University of British Columbia

The Vancouver Hospital and Health Sciences Centre and the University of British Columbia are seeking an outstanding academic researcher for a **FULL-TIME FACULTY** appointment in the Division of Urology, Department of Surgery. Applicants must have a Ph.D. in molecular or cell biology and have a special interest and expertise in prostate cancer research. The full-time research position includes an academic, grant tenure-track faculty appointment with minimal teaching and administrative responsibilities.

The faculty member will work in the Department of Cancer Endocrinology at the British Columbia Cancer Agency with 12,000 square feet of shared laboratory space equipped with all the equipment and facilities for molecular and cellular biology research. Collaborative opportunities with clinicians and scientists are readily available and encouraged. The individual we seek for this position would be most suitably a researcher in the early stages of their independent research careers. Rank and salary will be commensurate with qualifications and experience. Anticipated start date will be January 1, 1995.

Interested applicants should forward a letter of application and updated curriculum vitae by November 30, 1994, to: **Dr. Martin Gleave, W. H. Hudson Foundation for Urologic Research, Division of Urology, Vancouver Hospital and Health Sciences Centre, D-9, 2733 Heather Street, Vancouver, B.C. V5Z 3J5 Canada.**

The University of British Columbia welcomes all qualified applicants, especially women, aboriginal people, visible minorities, and persons with disabilities. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada.

OHIO UNIVERSITY invites applicants for two **TENURE-TRACK POSITIONS** in the Department of Chemistry. The appointments would commence in September 1995, subject to final administrative approval. Salary will be competitive. The first position is in **BIOCHEMISTRY**. The individual in this position will be expected to contribute to the undergraduate and graduate teaching of biochemistry and to develop a vigorous independent research program. We seek an individual who can complement and interact with the faculty in biochemistry and bioorganic chemistry, as well as possibly contribute to the interdisciplinary program in Molecular and Cellular Biology and/or the biosensor initiative in the Center for Intelligent Chemical Instrumentation. The second position is in **ORGANIC CHEMISTRY**. The major responsibility of the individual in this position will be to coordinate all the sophomore organic courses and to introduce new methods of teaching organic chemistry, incorporating the latest technologies, into the lectures and laboratories. The research and scholarship component of this individual's activities would be based on their success in this area. Candidates with the Ph.D. and appropriate postdoctoral experience should submit a detailed résumé and three letters of recommendation by November 1, 1994, to the **Organic Search Committee** or the **Biochemistry Search Committee, Department of Chemistry, Ohio University, Athens, OH 45701.** *Ohio University is an Equal Opportunity/Affirmative Action Employer.*

NORTHWESTERN UNIVERSITY Molecular Pharmacology and Biological Chemistry Faculty Position

Successful candidates will have outstanding potential as independent scholars. Preference will be given to candidates whose programs complement existing strengths in our newly structured department and the university and those who use mechanism and structure-based approaches. These include, but are not restricted to, the use of genetic or X-ray crystallography approaches in the areas of signal transduction, developmental biology and structure-based drug design.

Applicants should send a curriculum vitae, a one-page summary of previous research, a two-page summary of planned research, and copies of most significant publications. Also, arrange for five letters of reference, at least two of which are from individuals without a collaborative or mentor relationship, to be sent to: **D. Martin Watterson, Chair, Department of Molecular Pharmacology and Biological Chemistry, FS1, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611-3008.**

Northwestern University is an Equal Opportunity/Affirmative Action Educator and Employer.

THE UNIVERSITY OF CALIFORNIA AT BERKELEY

Seven Tenure-Track Assistant Professor Faculty Positions

As part of continuing efforts to expand a dynamic program in modern biology at Berkeley, we seek at least seven appointments over the next two years in the Departments of Molecular and Cell Biology; Nutritional Sciences; and Environmental Science, Policy and Management (ESPM). The first appointees are expected to join the faculty by July 1, 1995 and subsequent appointees by July 1, 1996.

Ph.D. and/or M.D. scientists should have demonstrated excellence, originality, and productivity in research, as well as a strong interest in undergraduate and graduate teaching. The new faculty will join graduate training programs in Molecular and Cell Biology, Nutrition, and ESPM, which serve as frameworks for collegial interactions throughout the Biological Sciences.

Multiple faculty search committees have been formed and applications should be directed to the Chair of the appropriate committee(s) at the addresses listed below. Applications should include a curriculum vitae, bibliography, a brief description of research accomplishments; a two-page statement of research objectives and teaching interest, reprints of the three most significant publications, and names of three referees (do not submit letters at this time). Candidates applying to multiple positions must send a separate and complete application to each desired search committee. Applications must be received by closing dates listed below. The University of California is an Affirmative Action/Equal Opportunity employer. We especially invite women and under-represented minorities to apply.

Department of Molecular & Cell Biology

Immunology Search

Research emphasis in molecular or cellular immunology, including signal transduction in lymphocyte activation, inter- or intracellular communication, B cell development, or mechanisms of gene rearrangement.

Closing date: October 24, 1994

*Dept. of Molecular & Cell Biology
Chair, Immunology Search
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

Genetics and Development Search

Research emphasis in the broad areas of genetic and developmental studies of vertebrates, including human genetics.

Closing date: October 24, 1994

*Dept. of Molecular & Cell Biology
Chair, Genetics & Development Search
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

Neurobiology Search

Research emphasis in one of the several broad areas of neurobiology, including synaptic plasticity and memory mechanisms; neural development; cell-cell signaling and communication; and dynamic properties of neural circuits, networks, and systems.

Closing date: October 24, 1994

*Dept. of Molecular & Cell Biology
Chair, Neurobiology Search
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

Cell Biology Search

Research emphasis in cell-cell interactions including signaling, molecular endocrinology, receptor biology, cell junctions, cell-ECM interactions, cell polarity and tissue differentiation, and tumor biology.

Closing: October 24, 1994

*Dept. of Molecular & Cell Biology
Chair, Cell Biology Search
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

Biochemistry and Molecular Biology Search

Research emphasis in microbial biochemistry, host-pathogen (virus, bacterium, fungus) interactions.

Research emphasis in mechanism and regulation of chromosome replication, signal transduction, gene expression, or hormone response in mammals.

Closing date: October 24, 1994

*Dept. of Molecular & Cell Biology
Chair, Biochemistry & Molecular Biology Search
401 Barker Hall #3202
University of California
Berkeley, CA 94720-3202*

Dept. of ESPM

Conservation Biology Search

Research emphasis in the general area of vertebrate wildlife biology with a preference given to avian ecology.

Closing date: November 15, 1994

*Dept. of Env. Sci., Policy & Mgmt.
Chair, Conservation Biology Search
Dean's Office, College of Natural Resources
101 Giannini Hall #3100
University of California
Berkeley, CA 94720-3100*

Dept. of Nutrition

Nutritional Biochemistry/Toxicology Search

Research emphasis in nutritional toxicology, mechanisms underlying protective or harmful effects of nutrients and non-nutrients, influence of dietary factors on gene expression or DNA repair, and the genetics of toxicant metabolism.

Closing date: November 15, 1994

*Dept. of Nutrition
Chair, Nutrition Search
Dean's Office, College of Natural Resources
101 Giannini Hall #3100
University of California
Berkeley, CA 94720-3100*

POSITIONS OPEN

FACULTY POSITIONS Immunology Department

The Department of Immunology at The University of Texas, MD Anderson Cancer Center is seeking applicants for tenure-track **FACULTY POSITIONS**. Preference will be given to highly qualified junior investigators with a strong background in molecular/cellular immunology.

Applicants should send curriculum vitae, three letters of recommendation and a brief statement of research interests to: **Dr. Ronald Palacios, Chairman Search Committee, The University of Texas MD Anderson Cancer Center, Department of Immunology, Box 178, 1515 Holcombe Boulevard, Houston, TX 77030. An Equal Opportunity/Affirmative Action Institution. Smoke-free environment.**

FACULTY POSITION IN EUKARYOTIC MOLECULAR BIOLOGY

The Department of Biochemistry, University of Rochester Medical Center is seeking applications for the position of **ASSISTANT PROFESSOR**. Applicants should be prepared to conduct active independent research, using biochemical and molecular genetic techniques to study cellular mechanisms and human disease. Considerable prior research experience is required. The University provides wide opportunities for collaboration with investigators in clinical and basic science departments, and in the Cancer Center. Send a curriculum vitae and letters of recommendation to: **Dr. Fred Sherman, Chair, Department of Biochemistry, University of Rochester, 601 Elmwood Avenue, Rochester, NY 14642. This University is an Equal Opportunity Employer.**

FACULTY POSITIONS IN VIROLOGY

The Department of Microbiology and Immunology and the Winship Cancer Center invite applicants for two tenure-track faculty positions in virology. Candidates must have a Ph.D. or M.D. degree with at least two years of postdoctoral experience, a strong record of accomplishment in research, and the ability to initiate a competitive, independent research program. Candidates with interests in the cell biology or pathogenesis of viral infections are especially encouraged to apply. Applicants should submit a curriculum vitae, a brief research history and plans for future research, and the names and addresses of three references to: **Dr. Richard W. Compans, Chair, Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.**

FACULTY POSITION—BACTERIAL PATHOGENESIS. The Department of Microbiology and Immunology invites applications for a tenure-track faculty position in bacterial pathogenesis. The Department is located in new facilities adjacent to the Centers for Disease Control. Candidates must have a Ph.D. or M.D. degree with at least two years of postdoctoral experience, a strong record of accomplishment in research, and the ability to initiate a competitive, independent research program. Applicants should submit a curriculum vitae, a brief research history and plans for future research, and have three letters of recommendation sent to: **Dr. June R. Scott, Department of Microbiology and Immunology, Emory University School of Medicine, Atlanta, GA 30322. An Equal Opportunity/Affirmative Action Employer.**

M.D. FACULTY POSITION CANCER PREVENTION AND CONTROL RESEARCH

University of Alabama School of Medicine

The Departments of Nutrition Sciences and Medicine and the University of Alabama at Birmingham Comprehensive Cancer Center are seeking a **PHYSICIAN INVESTIGATOR** to fill a new tenure-track or tenured faculty position. The major responsibility will be to take a leadership role in expanding and coordinating current clinical research efforts in chemoprevention and nutrition in cancer prevention and control. Clinical activities will be optional. Teaching will be directed toward pre- and postdoctoral cancer prevention trainees, medical students, residents, and clinical nutrition fellows.

Interested persons should send a curriculum vitae to: **Roland L. Weinsier, M.D., Dr.P.H., Department of Nutrition Sciences, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294-3360. Calls should be directed to Douglas C. Heimburger, M.D.: 205-934-5112 or Dr. Weinsier: 205-934-6103.**

The University of Alabama at Birmingham is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

LABORATORY COORDINATOR—AMHERST COLLEGE. The Chemistry Department at Amherst College seeks to fill the position of **LABORATORY COORDINATOR** beginning in mid-November 1994. Preference will be given to candidates with an advanced degree in chemistry; applicants with a bachelors degree will also be considered. Responsibilities include designing and implementing new instructional labs, including those involving computer interfaces, maintaining the instructional laboratories, assisting faculty in the maintenance of research laboratories, managing the stockroom, overseeing waste disposal, and acting as the Department Safety Coordinator. The position carries a competitive salary and an attractive package of fringe benefits. Applicants should submit a detailed curriculum vitae, and should arrange for the forwarding of three letters of reference, all to: **Dr. J. N. Kushick, Chairman, Department of Chemistry, Box 2243, Amherst College, Amherst, MA 01002-5000, by September 19, 1994. Amherst College is an Affirmative Action/Equal Opportunity Employer and encourages women, minorities, and disabled persons to apply.**

Penn State University, Chemistry Department, **FACULTY POSITIONS.** Tenure-track faculty positions are available starting fall 1995 in the areas of organic, biological, and materials chemistry. Each appointment can be at any level and the appointee is expected to establish an exceptionally strong and highly visible research program. Commitment to excellence in undergraduate and graduate teaching is also essential. At the junior level, postdoctoral experience is preferred. A complete résumé, a synopsis of research plans and three letters of recommendation are required. For appointment at the senior level, evidence of an established record of widely recognized research excellence is required. Senior applicants need only send a résumé. Review of applications will begin October 15, 1994, and continue until the positions are filled. Send information to: **Chairman of the Search Committee, Box CE1, Penn State University, Department of Chemistry, 152 Davey Laboratory, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer, women and minorities encouraged to apply.**

FACULTY POSITION IN BACTERIAL PATHOGENESIS

The Department of Microbiology and Immunology at the University of Arkansas for Medical Sciences seeks to fill a 12-month, tenure-track, state-supported faculty position at the **ASSISTANT PROFESSOR** level. Research interests should emphasize molecular approaches to the study of the pathogenesis of bacterial disease. The applicant must have a Ph.D. or M.D. with postdoctoral experience. The individual will be expected to develop an independent research program and participate in teaching activities within the department's graduate and medical student programs. Generous start-up funds and laboratory space in the newly finished Biomedical Research Building will be provided. Address inquiries, along with curriculum vitae, statement of present and future research interests and the names of three references to: **Roger G. Rank, Ph.D., Department of Microbiology and Immunology, University of Arkansas for Medical Sciences, 4301 West Markham, Little Rock, AR 72205. The University of Arkansas for Medical Sciences is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIPS

The Mary Ingraham Bunting Institute of Radcliffe College, a multidisciplinary residential research center, offers **FELLOWSHIPS** for women scholars, scientists, artists, and writers. Applicants must have held Ph.D. or appropriate terminal degree for at least two years prior to appointment. **Science Scholars Fellowship Program** is open to women in fields of astronomy, molecular and cellular biology, biochemistry, chemistry, cognitive and neural sciences, computer science, electrical engineering, aerospace/mechanical engineering, geology, materials science, mathematics, physics, naval architecture and ocean engineering, oceanography, and all fields that relate to the study of oceans. Must be U.S. citizen. Funded by The Office of Naval Research. **Biomedical Research Fellowship Program** is open to women in all fields of biomedical research. Must be U.S. citizen or permanent resident. Funded by The Burroughs Wellcome Fund. Stipends are \$34,200 plus \$3,000 in research expenses for appointment Sept. 15, 1995 to August 15, 1996. Application deadline October 15, 1994. Write or call for application: **34 Concord Ave., Cambridge, MA 02138. Telephone: 617-495-8212.**

POSITIONS OPEN

NIMH NATIONAL TRAINING PROGRAM IN COMPLEX SYSTEMS AND BRAIN SCIENCES AT FLORIDA ATLANTIC UNIVERSITY: Pre- and Postdoctoral Fellowships

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS are available, funded by NIMH (Division of Basic Brain and Behavioral Sciences). Individuals with undergraduate degrees in pertinent disciplines are invited to apply for this five-year training program leading to the Ph.D. degree in Complex Systems and Brain Sciences. The Program is administered through the Center for Complex Systems, established in 1985. The aim of the Program is to couple theoretical concepts and methods for handling complex systems to specific experimental research in the cognitive and brain sciences.

Graduate training consists of a core curriculum in nonlinear dynamics and neuroscience (including computational modeling and cognitive science). Postdoctoral candidates should have a strong interdisciplinary interest.

Research areas include: sensorimotor co-ordination and learning, human brain imaging and event related potentials, brainstem mechanisms of behavior, neural growth and development, ion channel dynamics, speech production and perception, neurolinguistics, visual perception, mathematics of complex systems, nonlinear dynamics, neural networks and robotics.

Applicants should send a letter of interest, GRE scores (graduate fellows only), curriculum vitae and three letters of reference to: **Professor J. A. S. Kelso, Director, Program in Complex Systems and Brain Sciences, 777 Glades Road, Boca Raton, FL 33431. Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL FELLOWSHIPS The Hebrew University of Jerusalem Jerusalem, Israel

The Hebrew University of Jerusalem invites applicants for the **GOLDA MEIR** (and other) **POSTDOCTORAL FELLOWSHIPS** in Humanities, Social Sciences, Natural and Applied Sciences and Agriculture and Medicine for the 1995-96 academic year.

Candidates may apply at an early stage of their professional career (not later than three years after completion of their doctoral dissertation).

The fellowships are tenable for one academic year and may be extended for another year. The fellowship provides a 12-month stipend (with COL adjustments), rent allowance and return ticket to Israel.

Application forms can be obtained from the **University Grants Office, P.O. Box 1255, Jerusalem, 91904, Israel**. Completed application forms must be returned by November 30, 1994.

Applicants may apply either for a University Fellowship or a Lady Davis Fellowship but not to both.

POSTDOCTORAL ASSOCIATE POSITIONS

POSTDOCTORAL TRAINING OPPORTUNITIES are regularly available with the College of Biological Sciences at the University of Minnesota. Positions may be available in the Departments of Biochemistry; Ecology, Evolution and Behavior; Plant Biology; and Genetics and Cell Biology. Positions may also be available in the following research programs: the Bell Museum of Natural History, the Gray Freshwater Biological Institute, the Biological Process Technology Institute, Lake Itasca Forestry and Biological Station, and the Plant Molecular Genetics Institute. A Ph.D. degree or foreign equivalent is required. Appointment is limited to three years. Applications from interested persons must include a personal vitae, a brief statement of research interests and experience, and names, addresses and telephone numbers of three references. Direct application material to: **Administrator, [Department Name], College of Biological Sciences, 123 Snyder Hall, 1475 Gortner Avenue, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.**

POSTDOCTORAL RESEARCH POSITION is available to study the enzymes, intermediates and genes of the vitamin-K biosynthetic pathway (see *J. Bacteriol.*, 174: 5057, 1992; *J. Bacteriol.*, 174:8111, 1992; *J. Bacteriol.*, 175:4917, 1993). Strong background in Biochemistry and/or Molecular Biology required. Experience with overexpression, purification and characterization of proteins would be helpful. Send curriculum vitae and references to: **Dr. R. Meganathan, Department of Biological Sciences, Northern Illinois University, DeKalb, IL 60115. Equal Opportunity Employer.**



UNIVERSITY OF OXFORD

Dr Lee's Professorship of Anatomy

The electors intend to proceed to an election to Dr Lee's Professorship of Anatomy with effect from 1 October 1996 or such later date as may be arranged. The stipend of the professorship is at present £35,859 per annum (plus a pensionable allowance of £4,140 in respect of the duties as head of department). The post is held in the University Department of Human Anatomy, which currently undertakes scientific research in a wide range of fields including developmental biology, neuro-biology, endocrinology, and epithelial biology. The department has undergraduate teaching responsibilities in the pre-clinical curriculum and in the degree course in Physiological Sciences. Applications are invited without restriction as to field and from medically qualified and non-medical biologists alike.

A non-stipendiary professorial fellowship at Hertford College is attached to the professorship.

Applications (10 copies, or one only from overseas candidates), naming three referees, should be received not later than 31 October 1994 by the Registrar, University Offices, Wellington Square, Oxford OX1 2JD, from whom further particulars may be obtained.

The University is an Equal Opportunity Employer

Deputy Director

The National Institute of Allergy and Infectious Diseases, National Institutes of Health (NIH) is recruiting for the Senior Executive Service position of Director, Division of Intramural Research. Salary range between \$96,830 - \$116,529 PA. (M.D.s may be eligible for up to \$20,000 Physician's Comparability Allowance.) The incumbent of this position provides overall executive direction and scientific leadership to a staff of over 900 employees in 17 basic and clinical research laboratories, and manages an annual budget in excess of \$128,300,000. Responsibilities include developing directing, and coordinating the research program, allocation of staff and physical and financial resources, program planning and oversight of day-to-day program operations. Applicants must hold either an M.D. degree or Ph.D. degree in one of the biomedical sciences, and demonstrate a record of scientific accomplishment in the fields of microbiology, infectious diseases, and basic or clinical immunology, or other closely related fields. U.S. Citizenship is required. Submit a application for Federal Employment, (SF-171), C.V., and bibliography to:

Mrs Janie R. Lacy
Personnel Officer, NIAID
National Institutes of Health
Building 31, Room 7A-2
9000 Rockville Pike
Bethesda, Maryland 20892
(301) 496-9686

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, sexual orientation, handicapping condition, age, or membership or nonmembership in an employee organization

NIH is an Equal Opportunity Employer

Professor and Director, Biotechnology Research UNIVERSITY OF MONTANA

An established biomedical scientist is sought to enhance biotechnology related research at the University of Montana. The university seeks a person with strong interpersonal communication skills who can make a major contribution to biotechnology related research with their own program and assume a leadership role in integrating biotechnology research with programs in biochemistry, chemistry, immunology, microbiology, molecular biology and the pharmaceutical sciences. Ability to generate external funding and foster creative entrepreneurial endeavors is essential. Long range plans include the development and funding of a Biotechnology Research Center. The candidate should be able to establish collaborative ties with The Rocky Mountain NIH Laboratories, Ribi ImmunoChem Research Incorporated, Nurture Co., and other such firms in the Northwest.

Requirements for this position include a Ph.D. degree, documentation of competitive research in an academic or industrial setting, a history of fund raising success and the administrative, management, and interpersonal skills required to foster the development of biotechnology research university-wide, and to enhance interaction with the industrial community and other universities. The salary is competitive and commensurate with experience and will include an academic appointment in the appropriate unit.

The University of Montana is located in Missoula, a cosmopolitan Rocky Mountain community of 70,000. The city and surrounding area has been singled out in national publications for its high quality of life. Abundant recreational opportunities in surrounding state and national forests and nearby Glacier and Yellowstone national parks complement a thriving intellectual atmosphere.

Applications should include a statement of philosophy/interest or a plan relevant to the opportunity, a curriculum vitae, and the names, addresses and phone numbers of at least three references. Screening of applications will begin immediately and continue until the position has been filled.

Send applications or inquiries to:

Vernon R. Grund, Chairman
Biotechnology Search Committee
Department of Pharmaceutical Sciences
University of Montana
Missoula, MT 59812-1075
Phone 406-243-4770 (4765) (2118)
Fax 406-243-4353

The University of Montana is an equal opportunity/affirmative action employer.

Postdoctoral Research at The Wistar Institute

The Wistar Institute, an independent research organization located on the campus of the University of Pennsylvania, currently seeks four postdoctoral applicants.

Postdoctoral Researcher 1 – Work in the area of three-dimensional image reconstruction of adenovirus using images from electron microscopy. **Reply to Dr. Roger Burnett.**

Postdoctoral Researcher 2 – Synthesis and analysis of sugar derivatives and synthesis, compositional and conformational analysis of glycopeptides. **Reply to Dr. Laszlo Otvos.**

Postdoctoral Researcher 3 – Conduct molecular genetic analyses of the structure/function of receptors that mediate signal transduction and adhesion of lymphocytes. **Reply to Dr. Ellen Puré.**

Postdoctoral Researcher 4 – Cloning and mapping of mammalian subtelomeric chromosome regions; application of RARE cleavage methods; organization, polymorphic distribution and function of human and mouse subtelomeric DNA elements. **Reply to Dr. Harold Riethman.**

Postdoctoral Researcher 5 – Study the molecular mechanism of T cell development in mice. **Reply to Dr. Lisa Spain.**

Interested applicants are requested to send a C.V. and three references to the appropriate Doctor's attention: **The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104.** Equal Opportunity Employer. Minority candidates are strongly encouraged to apply.



POSITIONS OPEN

NATIONAL RESEARCH SERVICE AWARDS AT PURDUE UNIVERSITY

Two **POSTDOCTORAL POSITIONS** in the National Research Service Awards in Metabolic Regulation in Eukaryotes Program at Purdue University will become available on December 1, 1994. These fellowships are supported by an NIH Training Grant that allows both basic scientists and clinicians to conduct research in basic and clinical aspects of metabolic regulation. The research interests of current program faculty include: protein-DNA interaction/regulation of gene expression, regulation of protein-tyrosine phosphorylation, structure and function of membrane transport proteins, structure and function of leucine genes, oncogenes and cellular transformation, FGF receptor and its function, structure and function of aminotransferase genes, and tumor necrosis factor action on target genes.

Candidates must be U.S. citizens or permanent residents of the U.S. Interested applicants should submit their curriculum vitae, three letters of recommendation, and a letter stating their research interests, to: **Dr. Ki-Han Kim, Department of Biochemistry, Purdue University, West Lafayette, IN 47907. Telephone: 317-494-1666. Purdue University is an Equal Opportunity/Affirmative Action Employer.**

MOLECULAR-CELLULAR BIOLOGIST—Phoenix, AZ. A **POSTDOCTORAL POSITION** is available for a Molecular-Cellular Biologist in the laboratory of **Dr. Michal K. Stachowiak** at the Barrow Neurological Institute of St. Joseph's Hospital and Medical Center. Successful candidate will study functions and molecular biology of intercellular FGF receptors in human astrocytes and the mechanisms by which bFGF controls cell cycle, apoptosis and neural development. Studies in this laboratory are supported by NIH, NSF and private grants. Send curriculum vitae, a summary of research interests/experience and names of three references to: **Dr. Michal K. Stachowiak, Laboratory of Molecular Neurobiology, Division of Neurobiology, Barrow Neurological Institute, St. Joseph's Hospital and Medical Center, 350 West Thomas Road, Phoenix, AZ 85013. Equal Opportunity Employer.**

POSTDOCTORAL POSITION at University of Hawaii to study cellular and molecular basis of chemoreception in a marine slug. Expertise in neurophysiological techniques required. Training in methods of molecular biology desirable. Send résumé and three letters of recommendation to: **Dr. M. G. Hadfield, Kewalo Marine Laboratory, Pacific Biomedical Research Center, 41 Ahui Street, Honolulu, HI 96813. FAX: 808-599-4817; Email: hadfield@uhunix.uhcc.hawaii.edu. Closing date: 15 October 1994. Equal Opportunity Employer.**

POSTDOCTORAL POSITION. A postdoctoral research position is available immediately to participate in NIH-supported studies of insulin receptor signal transduction and the molecular genetics of a unique subphenotype of non-insulin dependent diabetes mellitus. Ph.D. required and experience in biochemistry, molecular biology and signal transduction desirable. Send curriculum vitae and names of three references to: **Dr. A. Dunaif, Head, Section of Diabetes and Metabolism, Penn State University College of Medicine, 500 University Drive, Hershey, PA 17033. FAX: 717-531-5726. Pennsylvania State University is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.**

POSTDOCTORAL POSITION available in molecular neurobiology of neurodegenerative diseases, including Alzheimer's Disease, in established multidisciplinary laboratory. Qualifications include a Ph.D. or M.D. A strong background is desired in biochemistry and molecular biology to explore the molecular basis of these diseases. Submit curriculum vitae, and three references to: **Dr. Carol A. Miller, USC School of Medicine, Department of Pathology, MCA-345 2011 Zonal Avenue, Los Angeles, CA 90033. FAX: 213-342-1808.**

POSTDOCTORAL FELLOW/JUNIOR FACULTY. Neuroanatomist to manage a histopathology laboratory for Alzheimer's and age-related neuroscience research. One technician provided. Opportunities to collaborate in NIH-funded Alzheimer's, Parkinson's and neuroimmunology research. Located in suburban Phoenix. Salary of \$28,500 per year plus fringe benefits. Start immediately. Curriculum vitae to: **Dr. Joseph Rogers, Sun Health Research Institute, P.O. Box 1278, Sun City, AZ 85372.**

POSITIONS OPEN

POSTDOCTORAL RESEARCHER

The Marine Life Research Group/California Cooperative Oceanic Fisheries Investigations (CalCOFI) of Scripps Institution of Oceanography, invites applications for a **POSTDOCTORAL INVESTIGATOR** in California Current studies for one to two years. CalCOFI is a 45-year-old interdisciplinary investigation of the biology, chemistry, physics, and paleoecology of the California Current System. The field of study is open, but preference will be given to applicants whose proposed research is related to CalCOFI objectives. Contact: **Mary Olivarría** at 619-534-2868 or Email: molivarría@ucsd.edu for an information package. Submit curriculum vitae, statement of proposed research, and names of three references to: **Dr. M. M. Mullin, Director, Marine Life Research Group, Scripps Institution of Oceanography, University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92093-0227 by 31 October 1994. Salary will be commensurate with experience and based on UC salary scales; benefits are included. An Equal Opportunity/Affirmative Action Employer.**

POSTDOCTORAL POSITION available immediately to study molecular mechanisms of translational regulation. Project will involve identification and cloning of sequence-specific mRNA binding proteins. Applicants should have a Ph.D. in molecular biology or genetics with experience in cloning techniques, gel retardation assay and use of expression vectors. Send curriculum vitae and list of references to: **Dr. Allan Halline, Department of Medicine (M/C 787), University of Illinois at Chicago, 840 South Wood Street, Chicago, IL 60612.**

IMMUNOLOGY

Two **POSTDOCTORAL FELLOW POSITIONS** are available to study signal transduction process in the immune system. Research focuses on *in vivo* animal models, and takes a multidisciplinary modern biological approach, including conditional gene targeting. Applicants should have a strong background in molecular biology and/or biochemistry. Experience in gene targeting is not required. Please send curriculum vitae and three letters of reference to: **Dr. Hua Gu, Laboratory of Immunology, NIAID, Room 139, 12441 Parklawn Drive, Rockville, MD 20852. FAX: 301-480-2618. NIH is an Equal Opportunity Employer.**

POSTDOCTORAL FELLOWSHIP POSITION available using electrophysiological and neuroanatomical techniques to study the integration of baroreceptor and chemoreceptor afferent inputs in the brainstem. Expertise with immunocytochemistry and/or *in situ* hybridization preferred. Send curriculum vitae and names of three references to: **S. Mifflin, Department of Pharmacology, University of Texas Health Science Center, 7703 Floyd Curl Drive, San Antonio, TX 78284-7764. The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.**

KAROLINSKA INSTITUTE, STOCKHOLM, SWEDEN

POSTDOCTORAL POSITION available for studies on the *in vivo* functions of neurotrophic factors. The studies focus on the function of neurotrophins for neuronal survival, plasticity and specification in the peripheral and central nervous system. Experimental models include establishment and studies of transgenic and knockout mice, gene transfer, and lesion models. Experience in molecular biology and/or neurobiology is desired. Review will continue until the position, located in Stockholm, Sweden, is filled. Send curriculum vitae, brief description of research experience, and names of three references to: **Patrik Ernfors, Ph.D., Whitehead Institute for Biomedical Research, 9 Cambridge Center, Cambridge, MA 02142, USA.**

POSTDOCTORAL RESEARCH SCIENTIST: Positions available for two Molecular Biologists to study the molecular mechanisms by which scatter factor (hepatocyte growth factor) and c-met receptor function in biological and pathological processes. Ph.D. in biological sciences with experience in molecular biology required. Competitive salary and benefit program. Send résumé to: **Dr. Eliot Rosen, Head of Section Research, Department of Radiation Oncology, Long Island Jewish Medical Center, 156-05 76th Avenue., New Hyde Park, NY 11040. Long Island Jewish Medical Center is the Long Island Campus for the Albert Einstein College of Medicine. An Equal Opportunity Employer.**

POSITIONS OPEN

POSTDOCTORAL FELLOWSHIPS in Enzymology and Molecular Biology—One fellowship to work with outstanding group of investigators on the enzymology and molecular biology of important proteinases involved in the assembly of collagen fibrils. Work includes expression of genes in recombinant systems and development of binding assays for rapid screening of inhibitors. Successful candidate should have experience in proteinase enzymology. Experience in molecular biology helpful, but not essential. Another fellowship is available to work on targeted insertions of genes into the human genome as part of a program of gene therapy. Successful candidate should have experience in molecular biology and protein chemistry. Ph.D. in Biochemistry or Molecular Biology from well-recognized institution or research experience in a well-recognized laboratory required for both positions. Salaries competitive. Please send curriculum vitae and names of individuals who can be called for references to: **Department LMB-039, Thomas Jefferson University, 201 South 11th Street, Philadelphia, PA 19107-5595. We are committed to a smoke-free environment. Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN PLANT BIOLOGY

Two **POSITIONS** are immediately available to investigate genes involved in Plant Development and Disease Resistance. These positions are part of a collaborative effort between **Drs. Joe Chappell (PNAS, 88:11088-11092, 1992), Glenn B. Collins (In Vitro Cell Dev Bio, 28:153-160, 1992), and Mark T. Nielsen (J Chem Ecol, 18:1467-1479, 1992).** Candidates should have demonstrated quantitative skills and be familiar with biochemical and molecular biology techniques. Please send curriculum vitae and three letters of reference to: **Dr. Joe Chappell, Plant Physiology/Biochemistry Program, N-220 Agricultural Science Center-North, University of Kentucky, Lexington, KY 40546-0091.**

POSTDOCTORAL POSITION MOLECULAR BIOLOGY OF PROGRAMMED CELL DEATH

POSITION available in the laboratory of **Dr. V. M. Dixit** to investigate the mechanisms by which cells become resistant to cytokine killing and to identify components of the death pathway. Recent relevant publications from the laboratory include: *JBC*, 267: 12424, 1992; *JBC*, 267: 17971, 1992; *JBC*, 267: 24157, 1992; *JBC*, 268: 5032, 1993; *JBC*, 269: 3633, 1994. Applicants must be U.S. citizens or permanent residents. Submit curriculum vitae and three references to: **Dr. V. M. Dixit, University of Michigan, Department of Pathology, Box 0602, Ann Arbor, MI 48109.**

POSTDOCTORAL POSITION MOLECULAR AND CELLULAR CARDIOLOGY

Ph.D. position (Research Associate) to study electrophysiology and pathophysiology of cardiac myocytes. Experience in patch clamping, cell isolation and culture, and molecular biology preferred.

Send curriculum vitae and names of three references to: **Drs. Gary Gintant or Richard Vander Heide, Program in Molecular and Cellular Cardiology, Wayne State University School of Medicine, 1107 Elliman Research Building, 421 East Canfield Avenue, Detroit, MI 48201. FAX: 313-577-8615. Equal Opportunity/Affirmative Action Employer. Underrepresented minority applicants are encouraged to apply.**

POSTDOCTORAL POSITION available immediately to work with an experienced group of investigators focusing on immunological and molecular aspects of *Pneumocystis carinii*. Strong background in molecular biology or immunology required; experience with a eukaryotic microorganism would be helpful. Send curriculum vitae and three references to: **Francis Gigliotti, M.D., University of Rochester, Department of Pediatrics, Box 690, 601 Elmwood Avenue, Rochester, NY 14642.**

POSTDOCTORAL POSITION. NIH-funded study of developmentally regulated triacylglycerol recycling, diacylglycerol biosynthesis, and essential fatty acid metabolism. Experience in lipid biochemistry and tissue culture required. Send résumé, statement of research interest, and names of three references to: **Dr. Rosalind Coleman, Department of Nutrition, University of North Carolina, CB No. 7400, Chapel Hill, NC 27599-7400. The University of North Carolina-Chapel Hill is an Affirmative Action/Equal Opportunity Employer.**

HUBBLE FELLOWSHIP PROGRAM OFFICE

Space Telescope Science Institute
3700 San Martin Drive
Baltimore, MD 21218

NSI/DECNET: 6559::HFELLOWS
INTERNET HFELLOWS@STSC.EDU

The Space Telescope Science Institute announces the continuation of the Hubble Fellowship Program in cooperation with astronomical institutions throughout the United States. The main objective of the Program is to provide recent postdoctoral scientists of unusual promise and ability, opportunities for research on problems (largely of their own choosing) that are related to the Hubble Space Telescope science and compatible with the interests of the host institutions. The program is open to scientists of any nationality who have earned their doctorates after January 1, 1992, in astronomy, physics, or related disciplines.

The duration of the fellowship is for a total of three years, which includes an initial appointment of two years and an extension to a third year, contingent on a positive mid-term review. Contingent on funding from NASA, up to 12 new Hubble Fellows will be supported this year by grants to United States institutions.

The Announcement of Opportunity, including the application instructions, may be obtained from the above address.

The application deadline is November 11, 1994. The new Hubble Fellow appointments are expected to begin on September 1, 1995. Minorities and women are strongly encouraged to apply.

EEO/AA/MF/DV



SUCCESSING TOGETHER

Research ♦ Treatment ♦ Education

Ontario Cancer Institute/Princess Margaret Hospital, one of North America's largest cancer research and treatment centres, has five research divisions: Cellular and Molecular Biology, Molecular and Structural Biology, Experimental Therapeutics, Clinical Physics, and Statistics and Epidemiology. The Institute invites applications for senior positions in the divisions of Cellular and Molecular Biology, and Experimental Therapeutics.

Senior Scientists

Current programs in the above divisions include tumour biology, oncogenes and tumour suppressor genes, radiation biology, experimental chemotherapy, haematopoiesis, cellular and molecular immunology, transcriptional regulation, signal transduction, and gene therapy.

New members should be eligible for appointment at the assistant or associate professor level in the Department of Medical Biophysics, a graduate department of the University of Toronto. Preference will be given to individuals with research interests in areas such as cell cycle control, signal transduction, human tumour viruses, DNA repair, chemotherapy, and pharmacology.

Interested and qualified individuals are invited to send a curriculum vitae, a statement of research interests and the names of three references, to: Dr. Sam Benchimol, Search Committee, 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. All qualified candidates are encouraged to apply.

Ontario Cancer Institute Princess Margaret Hospital

Biomedical Research In Cell and Neurobiology

Faculty Positions are available at the junior or senior level in cell biology, including the cell biology of neurons. Areas of interest are cell growth control, signal transduction mechanisms, synaptic function and neurodegenerative disease, but other areas which fortify and complement existing research strengths in cell and neurobiology will also be considered. Direct relevance to problems of medical interest, and the use of molecular, genetic, and transgenic approaches are desirable. Appointments carry institute-backed salary guarantees and liberal start-up packages for personnel, equipment and operating costs.

Submit a detailed curriculum vitae, a brief summary of research interests and future research plans, and three letters of recommendation to:

Dr. Richard Vallee, Scientific Director
c/o Human Resources
The Worcester Foundation for
Experimental Biology
222 Maple Ave.
Shrewsbury, MA 01545

Review of Applications will begin
November 1, 1994.



Worcester Foundation for
Experimental Biology

An Affirmative Action/
Equal Opportunity Employer

DEAN OF THE COLLEGE OF BIOLOGICAL SCIENCE

The University of Guelph invites applications and nominations for the position of the Dean of the College of Biological Science.

One of seven colleges in the University of Guelph, the College of Biological Science is committed to a leadership position in undergraduate and graduate teaching and in research. The College comprises five departments—Botany, Microbiology, Molecular Biology & Genetics, Nutritional Sciences and Zoology—as well as the School of Human Biology. College personnel include 90 faculty and 235 staff; there are 250 graduate students and 50 post doctoral fellows. The College's undergraduate teaching serves several degree programs, the B.Sc. being the principal one; there are 15,000 course enrolments per year.

Candidates should have a proven record of leadership and achievement in education, research and administration. In addition to leading the College, the Dean has substantial cross-campus academic administrative responsibilities and will be expected to play an integral role in the University's Strategic Planning exercise. S/he must be a highly credible representative of the College and the University in maintaining and developing interactions with external agencies, research sponsors and alumni.

Faculty Policies define the standard decanal term as five years, renewable for a further five year period following a comprehensive review.

The University of Guelph is committed to an employment equity program that includes special measures to achieve diversity among its faculty and staff. We therefore particularly encourage applications from qualified aboriginal Canadians, persons with disabilities, members of visible minority groups, and women.

In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents.

Applications and nominations should be directed by October 21, 1994 to:

Dr. J.R. MacDonald
Vice President, Academic
University of Guelph
Guelph, Ontario
N1G 2W1

UNIVERSITY
of GUELPH

POSITIONS OPEN

POSTDOCTORAL POSITION to study the molecular genetics of human DNA replication. Epstein-Barr and papilloma virus sequences and immunoglobulin, globin, and *myc* gene families are used as model systems both *in vivo* and *in vitro* to study cell cycle regulation of DNA replication. Other projects include the role of cell cycle checkpoints in regulating DNA replication and the purification of replication proteins. Apply by mail and a FAX copy to: **Dr. Carl Schildkraut, CH 416, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. FAX: 718-829-7619. Equal Opportunity Employer.**

POSTDOCTORAL POSITION available in winter 1994/95 to study development of sensory innervation patterns. Research includes 1) time lapse videomicroscopy of sensory neurons *in vitro*, 2) examination of cell surface molecules on growth cones, and 3) surgical manipulations of chick embryos *in vivo*. Candidates should have Ph.D. with background in neurobiology and/or development. Send curriculum vitae, statement of research interests and addresses of three references to: **Sheryl A. Scott, Department of Neurobiology and Anatomy, University of Utah School of Medicine, 50 North Medical Drive, Salt Lake City, UT 84132. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION

This position will investigate viral hepatitis and liver cancer. Experience in molecular biology or cellular immunology is preferred.

Qualified applicants should submit their curriculum vitae and three professional letters of references to: **University of Texas Medical Branch, Department of Pathology, Attention: Dr. Chiaho Shih, Galveston, TX 77555-0605.**

University of Texas Medical Branch (UTMB) is an Equal Opportunity/Affirmative Action Employer/Male/Female/Disabled/Veterans. UTMB is a smoke-free/drug-free workplace. UTMB hires only individuals authorized to work in the United States.

POSTDOCTORAL POSITION: A position is available immediately for an innovative individual to investigate the mechanism of degradation of cytochrome P450. Training in molecular and cell biology with tissue culture experience will be extremely valuable. Send curriculum vitae and have three references sent to: **Dr. Dennis R. Koop, Department of Pharmacology, L-221, Oregon Health Sciences University, 3181 S.W. Sam Jackson Park Road, Portland, OR 97201.**

RESEARCH ASSOCIATE POSITION in biology available immediately to study the molecular mechanism of dimorphism in *Candida albicans*. This position requires experience in protein purification, and working ability in molecular biology and microbiology. Prior experience in working with graduate students is helpful. Salary according to experience. Please send curriculum vitae, summary of previous research and three letters of reference to: **Dr. Reavis Mitchell, Jr., Interim Dean of Academic Affairs, Fisk University, Nashville, TN 37028. Equal Opportunity Employer.**

RESEARCH ASSOCIATE POSITIONS

RESEARCH ASSOCIATE OPPORTUNITIES are periodically available with the College of Biological Sciences at the University of Minnesota. Positions may be available in the Departments of Biochemistry; Ecology, Evolution and Behavior; Plant Biology; and Genetics and Cell Biology. Positions may also be available in the Bell Museum of Natural History, the Gray Freshwater Biological Institute, the Biological Process Technology Institute, Lake Itasca Forestry and Biological Station, and the Plant Molecular Genetics Institute. These positions are for independent research. To be considered, applicants must hold a Ph.D. degree or foreign equivalent and at least two years of postdoctoral experience. Applicants are encouraged to secure salary support from an external granting agency. Multiple positions may be available, depending upon space and facilities, availability of funding, as well as faculty research interests. Applications from interested persons must include a personal vitae, a statement of research interests and experience, and names, addresses and telephone numbers of three references. Closing date for applications to be received is June 30, 1995. Direct application material to: **Administrator, {Department Name}, College of Biological Sciences, 123 Snyder Hall, 1475 Gortner Avenue, St. Paul, MN 55108. The University of Minnesota is an Equal Opportunity Educator and Employer.**

POSITIONS OPEN

POSTDOCTORAL POSITION

POSITION available immediately to study the molecular mechanisms of adipocyte differentiation. Qualified candidates should possess a Ph.D. in Molecular Biology, Cell Biology or Biochemistry. Please forward curriculum vitae, statement of research interests, and three references to: **Dr. Suzie Chen, Laboratory for Cancer Research, College of Pharmacy, Rutgers University, Piscataway, NJ 08855-0789. FAX: 908-445-0687. Affirmative Action/Equal Opportunity Employer.**

POSTDOCTORAL POSITION IN GENE REGULATION available immediately. These studies will use genetic and biochemical approaches to study regulation of the histidine utilization operon and the nitrogen-regulated *mgAB* operon in *Bacillus subtilis*. Strong background in genetics and molecular biology desired. Please send curriculum vitae, brief description of research experience/interests, and the names, telephone numbers, and addresses for three references to: **Dr. Susan H. Fisher, Department of Microbiology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118. FAX: 617-638-4286. An Equal Opportunity Employer.**

POSTDOCTORAL POSITIONS IN MACROMOLECULAR CRYSTALLOGRAPHY

**Cellular Biochemistry and Biophysics Program
Memorial Sloan-Kettering Cancer Center**

Structural Biology laboratory focusing on oncogene products and tumor suppressor proteins has postdoctoral positions available immediately. Successful applicants will assume ongoing projects aimed at understanding the structural biology of 1) the p53 tumor suppressor system and 2) the cell cycle regulatory proteins. The preferred candidates will be highly motivated and have experience in macromolecular crystallography and biochemistry. Candidates with experience in NMR or computational methods will also be considered and are encouraged to apply. Send curriculum vitae and names of three references to: **Dr. Nikola P. Pavletich, Memorial Sloan-Kettering Cancer Center, Box 576, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3066. Equal Opportunity/Affirmative Action Employer.**

METEORITICIST—FIELD MUSEUM. Assistant Curator, Tenure-track. Seeking productive colleague with innovative, specimen-based research program. Ph.D. and record of scientific achievement required. Position entails curation of world-class meteorite collection (requiring broad knowledge of all meteorite classes and sampling requirements for analytical techniques) and important mineral, gem, and ore collections; museum service. Participation in university education programs encouraged. Application review begins October 1, 1994. Submit curriculum vitae, statement of research objectives, names and addresses of three references, and relevant publications to: **Search Committee, Department of Geology, Field Museum, Roosevelt at Lake Shore Drive, Chicago, IL 60605. Equal Opportunity/Affirmative Action Employer; qualified women and minorities encouraged to apply.**

PLANT MOLECULAR GENETICIST

The University of Kentucky, Tobacco and Health Research Institute is seeking to recruit a senior faculty member interested in the molecular genetics of tobacco and other higher plants. The position carries with it tenure in a department in the College of Agriculture and a very generous start-up package relative to financial support and laboratory space. The goal is to conduct research and build a research program directed at genetically engineering tobacco to produce substances such as protein, chemicals, enzymes, fibers, etc., which would have commercial value. Applications should be sent to: **Director, Tobacco and Health Research Institute, University of Kentucky, Cooper and University Drives, Lexington, KY 40546-0236. Deadline for application is 1 December 1994.**

The University of Kentucky is an Equal Opportunity Employer.

POSITIONS OPEN

ALGAL TAXONOMIST

The U.S. Geological Survey in Arvada, Colorado, seeks an algal taxonomist to work in the Biological Quality Assurance and Quality Control Unit of the National Water Quality Laboratory. All candidates must have education or experience at an appropriate level that equips them with the following Knowledge, Skills and Abilities (KSAs): (1) Knowledge of algal taxonomy, especially diatoms, freshwater periphyton and phytoplankton, MANDATORY-DOUBLE WEIGHTED; (2) Skill in applying standard museum techniques to the long-term preservation, storage, and retrieval of algal specimens and data, MANDATORY; (3) Knowledge of statistics (particularly multivariate analysis); (4) Knowledge of automated data storage and retrieval methods using spreadsheet, word processing, relational database and graphics applications either on personal computers or UNIX systems; and (5) Knowledge of QA/QC principles and procedures, and experience using a variety of microscopes (bright light, phase contrast, differential interference contrast, scanning electron) to evaluate contractor performance. Candidates may have a B.S., M.S. or Ph.D. degree in biological or ecological sciences; or education and/or experience related to the above KSAs. This is a permanent full-time position with an annual salary range of approximately \$35,000 to \$48,000, depending upon qualifications. Please submit a completed application for Federal Employment (including college transcripts), statement of professional interests, and listing of authored publications by **September 30, 1994**, to: **Deborah Douglas, U.S. Geological Survey, P.O. Box 25045, MS212, Denver, CO 80225. Standard Form 171 (application) and OPM Form 1170 (for transcripts) are available from the address above, any federal personnel office, or by contacting the U.S. Office of Personnel Management forms request line: 303-969-7055. Leave a message and refer to Control No. DD-0885. All application material must be received by September 30, 1994, to be considered. U.S. citizenship is required. U.S. Geological Survey is an Equal Opportunity/Affirmative Action Employer.**

CURATORIAL POSITION IN ICHTHYOLOGY American Museum of Natural History

The Department of Herpetology and Ichthyology invites applications for a tenure-track **CURATORIAL POSITION**. The primary requirement is a vigorous, independent research program in systematic biology of recent fishes.

The successful applicant will have a commitment to collection growth and curation, and must be willing to assume administrative, education, and exhibition responsibilities as appropriate.

Salary will be commensurate with qualifications and experience. The successful applicant must have completed all requirements for the Ph.D. by time of appointment. Applicants should submit a letter of application with a brief statement of research objectives, curriculum vitae, complete bibliography, and names, addresses, and telephone numbers of three references. Submit by October 1, 1994, to: **Dr. Charles W. Myers, Chairman, Department of Herpetology and Ichthyology, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024-5192. An Equal Opportunity Employer.**



EN SYS INC.
ENVIRONMENTAL PRODUCTS

ASSAY SPECIALIST

The successful candidate will develop and evaluate innovative immunoassay and chemical products for environmental applications. Demonstrated skills and creativity in immunoassay product development required. Validation, 510(k) submission, and product transfer experience are applicable. B.S./M.S. candidates with appropriate backgrounds will be considered. EnSys is a rapidly expanding company which offers professional growth, competitive salaries/benefits, and a 401(k) plan. Reply to: **EnSys Inc., Attention: Dr. Randy L. Allen, P.O. Box 14063, Research Triangle Park, NC 27709.**

EnSys is an Equal Opportunity Employer.

UNIVERSITY OF MINNESOTA CANCER CENTER ENDOWED CHAIR IN CANCER PREVENTION AND GENETICS

The University of Minnesota Cancer Center is developing new major research programs and will soon move into a new state-of-the-art research facility. The Cancer Center is seeking an experienced investigator with interest in the prevention and genetics of human cancer. The individual will be appointed to the Winston R. and Maxine H. Wallin Chair in Cancer Genetics and Prevention within the Cancer Center and the appropriate academic department. Membership in the Institute of Human Genetics is also available. The full-time appointment will be tenured at the full or associate professor level. Interested individuals should have and M.D. or Ph.D. in a related field, at least five years of post-doctoral research, and a proven record of high quality research (as shown by publication of papers in quality, peer-reviewed journals). For appointment at the full professor level, the individual will have demonstrated leadership in a strong innovative research program receiving national recognition. In addition to teaching and clinical advising, research responsibilities of this position will be to lead programmatic development in the area of cancer genetics and prevention. Resources will be available for recruitment of a complementary junior faculty person. Please send a curriculum vitae, a brief research statement, and three letters of recommendation to:

Dr. Lee Wattenberg/Dr. Tom Sellers, Co-chairs
Wallin Chair Search Committee
University of Minnesota Cancer Center
Box 806 UMHC, 420 Delaware Street S.E.
Minneapolis, MN 55455-0392, USA

The last date for receipt of applications is November 15, 1994.

The University of Minnesota is an equal opportunity educator and employer.

TEAM LEADER NATURAL PRODUCT ISOLATION GREENFORD/STEVENAGE

As the largest research based pharmaceutical company in Europe, Glaxo Research and Development aims to promote quality of life the world over. Our medicines combat illness and disease in more than 150 countries and our product range includes the world's best selling prescription medicine.

We are seeking a top quality scientist to lead a natural product isolation team within our new leads discovery programme. You are likely to have a PhD together with several years' experience in industry or academia with a proven track record in the isolation of biologically-active natural products. A thorough knowledge of state-of-the-art separation technology together with an understanding of high-throughput biological assay systems are essential and it is likely you will already be developing an international reputation in the field.

This is an outstanding opportunity to play a leading role in the development of a major natural product screening programme. Keen to shape the strategy of the group whilst implementing new approaches at the bench, you will have excellent technical skills matched by an ability to interact effectively within a multidisciplinary team dedicated to the discovery of new leads from natural sources.

This job is initially based at Greenford, relocating to our brand new £multi-million research site at Stevenage in early 1995.

In return, you will receive a highly competitive salary, along with excellent resources and benefits plus a generous relocation package where appropriate.

Please write with a full CV to:
The Assistant Human Resources Adviser
(Research), Glaxo Research and Development,
Greenford Road, Greenford, Middlesex UB6 0HE,
England. Fax4 (81) 422 3434. Please quote reference
number VT/NLD/08.



TWO POSITIONS IN ECOLOGY AND EVOLUTION University of Maryland, College Park

The Department of Zoology, University of Maryland, College Park, invites applications for two tenure-track positions in our research group in ECOLOGY, EVOLUTION and BEHAVIOR. Rank is open, but preference is for assistant professors.

COMMUNITY ECOLOGIST—Candidates with theoretical interests preferred; strong candidates in related areas are encouraged to apply.

EVOLUTIONARY BIOLOGIST—Specific research area is open.

The successful candidates are expected to maintain a productive, externally-funded research program and to direct research and teach courses at the undergraduate and graduate level. Applicants should send curriculum vitae, a description of research goals, sample publications, a summary of teaching interests, and the names, addresses, phone, and FAX numbers of at least three references to Dr. Lin Chao, Evolution Search Committee or to Dr. Margaret Palmer, Ecology Search Committee, Dept. of Zoology, Univ. of Maryland, College Park, MD 20742, by Nov. 1 for best consideration.

Minority and women applicants are strongly encouraged to apply. The University of Maryland is an equal opportunity/affirmative action employer.

FACULTY POSITIONS DEPARTMENT OF BIOCHEMISTRY AND BIOPHYSICS TEXAS A&M UNIVERSITY

The Department of Biochemistry and Biophysics at Texas A&M University seeks applications for several tenure-track positions. These are 12 month appointments; while these positions are targeted at the assistant professor level, more senior applicants will be considered. Applicants with demonstrated productivity and evidence of potential for independent research in any area of biochemistry will be considered, although those with research interests in physical approaches to the study of biological macromolecules are especially encouraged to apply. In addition to research, participation in the Department's undergraduate and graduate teaching programs will be expected. A Ph.D. in biochemistry or a related field plus appropriate postdoctoral experience is required.

The Department of Biochemistry and Biophysics has 34 full time faculty and approximately 80 graduate students and 500 undergraduate majors. The Department is housed in a modern, spacious, and well-equipped research facility. The research interests of the faculty encompass broad areas of contemporary biochemistry and molecular biology.

Completed applications should include: a curriculum vitae, a short description of research interests, two copies of two reprints, and three letters of recommendation. All materials should be sent to: Dr. Paul Fitzpatrick, Faculty Search Committee Chair, Department of Biochemistry and Biophysics, College Station, TX 77843-2128. Review of applications will begin Oct. 15, 1994.

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

Cornell University is seeking applications or nominations for dean of the New York State College of Veterinary Medicine at Cornell University.

The mission of the College of Veterinary Medicine is one of veterinary education, service, and research. At present 327 veterinary students are enrolled in a curriculum leading to the DVM degree. In addition, there are 96 graduate students carrying out advanced study and research. The college has 148 faculty members, 158 academic professionals, 132 nonacademic professionals, 431 support staff, and 38 interns and residents. The budget for the college is nearly \$53.5 million annually, including grants and contracts. The college has initiated a new curriculum for veterinary students this past year, emphasizing new methods of educational teaching and delivery. A new education building was completed in 1994, and a new hospital, research, and teaching facility is scheduled for completion in 1995. The college has a major commitment to biomedical research and veterinary service, and has extensive research laboratory and clinical facilities.

Cornell is seeking a dean who is a distinguished teacher, clinician, and researcher. The candidate must possess outstanding leadership qualities, excellent communication skills, and proven administrative ability, and be a person who is committed to high standards of education, service, and research involving a diversified faculty, staff, and student body. The dean must deal effectively with external constituencies which would include practitioners, alumni, veterinary and other related groups, and agencies of the State and Federal government. The dean must provide leadership for the educational programs and clinical veterinary services of the college, and create an atmosphere of support for the wide range of research programs of the college. The candidate must possess a DVM degree.

Cornell University is an affirmative action/equal opportunity employer and complies with the American with Disabilities Act of 1990. Nominations, applications, and inquiries should be directed to:

Provost Malden C. Nesheim, Chair
Search Committee for the Dean of the
College of Veterinary Medicine

300 Day Hall
Cornell University
Ithaca, New York 14853-2801

(607) 255-2364

FAX: (607) 255-9412

Applications will be evaluated starting November 1, 1994, and the target starting date is July 1 1995.

**THE UNIVERSITY OF NEW MEXICO
SCHOOL OF MEDICINE
VACANCY ANNOUNCEMENT**

The University of New Mexico Health Sciences Center invites nominations and applications for the position of Dean of the School of Medicine. The Dean will be responsible for providing the academic and managerial leadership for all programs at the school.

Minimum Requirements

- Earned doctorate in medicine or a related health field.
- Evidence of teaching, scholarly activity and service appropriate to the appointment of a full professor in a SOM.
- A minimum of three years senior administrative/leadership experience.

Desired Qualifications

- Strong record of productivity in research and/or educational innovation.
- Direct experience in issues related to health care delivery.
- Experience in working in a public institution of higher learning.
- Experience in the development and/or implementation of outreach, primary care, and rural programs.
- Track record of affirmative action program involvement and experience working with diverse cultures.
- Track record as consensus builder but able to give direction.
- Experience in working with multiple constituencies--professional, lay, legislative.
- Exceptional communication skills.
- If M.D., eligible for medical licensure in the State of New Mexico.
- Fiscal and personnel managerial experience.

Salary

Salary is negotiable depending upon qualifications and experience.

Application Process

Deadline for receipt of all applications is October 7, 1994. All nominations and applications should be sent to:

Chair, Dean School of Medicine Search Committee
c/o Jerry White
The University of New Mexico School of Medicine
Box 518 BMSB
Albuquerque, New Mexico 87131-5116

Telephone Number: (505) 277-2423
Fax Number: (505) 277-6581

A complete application must include a letter of interest relating personal qualifications to the responsibilities of the position; a resume; and the names, addresses, and telephone numbers of three references.

*The University of New Mexico is an Equal Opportunity/
Affirmative Action Employer.*

**MOLECULAR ONCOLOGIST
BIOCHEMIST/CELL BIOLOGIST
Center for Molecular Oncology
The University of Chicago**

The Center for Molecular Oncology of the University of Chicago is seeking applicants at the Assistant and/or Associate Professor level to join the newly formed Center. The Center is committed to developing a strong program in molecular oncology, broadly defined. We are seeking outstanding individuals who are using the approaches of molecular biology, molecular genetics, biophysics, and cell physiology to examine basic mechanisms and/or disorders such as signal transduction, gene and cell cycle regulation, and DNA replication and repair. The Center for Molecular Oncology is closely interfaced with an NCI-designated Cancer Center that includes programs on cytogenetics and molecular genetics, cell growth and differentiation, immunology and developmental therapeutics. Candidates should have sufficient research experience to demonstrate both significant accomplishment and outstanding promise. Faculty appointments will be tenure-track in the most appropriate academic department where the candidate will be expected to exercise full membership. New state-of-the-art laboratory space is available in the Institute for Molecular Medicine. This Institute also houses programs in molecular immunology, vascular biology, human genetics, and neurobiology. Letters of application including curriculum vitae, bibliography, a brief statement indicating research interest, and the names of 3 references should be sent to: **Dr. Michael Weiss, Director, Center for Molecular Oncology, 924 E. 57th Street, Chicago, IL 60637-5419.**



**THE UNIVERSITY
OF CHICAGO**

An Affirmative Action Equal Opportunity Employer

**Structural Biology
at the
University of Connecticut Health Center**

A tenure track position at the junior or senior level is available for the continued expansion of the Biomolecular Structure Analysis Center.

The successful candidate will be expected to develop a strong research program in a forefront area utilizing **macromolecular x-ray diffraction**. Funds are available for the purchase of the **state-of-the-art equipment** and for laboratory start-up.

Primary academic appointments can be made in any of the basic science departments according to the interests of the candidate.

Applicants should submit curriculum vitae, summary of research interests, and the names of references to:

Chair, Structural Biology Search Committee
Medical Dean's Office
University of Connecticut School of Medicine
263 Farmington Avenue
Farmington, CT 06030-1920

AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

M/F/Pw/D/V

Tenure-track Faculty Positions in Neurobiology

University of Maryland School of Medicine
Department of Anatomy

The Department of Anatomy has new leadership; significant growth is underway in the area of neurobiology. Our focus is on the *development, organization, and function of neural networks*. New full-time faculty will be recruited in these areas. Positions are primarily at the Assistant Professor level, but exceptional candidates at any level will be considered. Salary is dependent upon qualifications and experience.

The Department will move into new laboratories in the summer of 1995. There will be a significant increase in research resources, including core laboratories in neurohistology, molecular biology, tissue culture, imaging, and neurophysiology.

Successful candidates will have a Ph.D. or equivalent, outstanding ability in teaching, and exceptional achievement in their field of research, including the potential to attract external funding. They will be expected to develop independent research programs and to participate in graduate and medical school teaching. We are particularly interested in candidates whose research interests supplement our existing strengths and who can establish collaborative research programs.

For best consideration, applications should be received before Dec. 1, 1994. Applicants should send a C.V., a summary of research accomplishments, a description of future plans, and the names of 3-5 individuals from whom recommendations may be obtained to:

Dr. David V. Smith
Chair, Faculty Search Committee
Department of Anatomy
University of Maryland School of Medicine
655 West Baltimore Street
Baltimore, MD 21201-1559

Our Department is eager to diversify its faculty and we especially encourage women and minorities to apply. The University of Maryland is an AA/EEO/ADA employer.

NEUROBIOLOGY

University Of Utah

The Department of Biology at the University of Utah is seeking applications for one or two tenure-track positions in Neurobiology. Outstanding candidates in areas ranging from the neural basis of behavior to molecular neurobiology will be considered. We are looking for colleagues with broad interests in biology, who will interact productively with other members of our department, and who will establish strong independent research programs. The Department's faculty have research interests that span all of biology, from ecology and evolution through physiology, cell biology and biochemistry. Applications should have strong commitments to undergraduate teaching and research, as well as to graduate education. Rank is open. Applicants should submit a curriculum vitae, statement of research interests, and copies of up to four recent publications to the Neurobiology Search Committee, Department of Biology, University of Utah, Salt Lake City, UT 84112. Applicants should also arrange for at least three letters of recommendation to be sent to the same address. Review of applications will begin November 1, 1994, and will continue until the appointments are made.

ECOLOGY

University of Utah

The Department of Biology invites applications for one or two tenure-track faculty positions in ecology. Outstanding candidates will be considered regardless of specialty, but we will be particularly interested in applications from individuals who work in:

- behavioral ecology,
- evolutionary ecology,
- community ecology,
- ecosystem ecology.

We are looking for colleagues who will add diversity and strength to our program in ecology and evolution, and who will interact productively with other members of our department, which spans all of biology. Applicants should have strong commitments to undergraduate teaching as well as to research and graduate education. Rank is open. Applicants should submit a curriculum vitae, statement of research interests, and copies of up to four recent publications to the Ecology Search Committee, Department of Biology, University of Utah, Salt Lake City, UT 84112, and should arrange to have three or four letters of recommendation sent to the same address. Review of applications will begin November 1, 1994, and will continue until these appointments are made.

The University of Utah is an AA/EEO employer. It encourages applications from women and minorities and provides reasonable accommodation to the known disabilities of applicants and employees.

MOLECULAR MICROBIOLOGIST THE UNIVERSITY OF MICHIGAN Assistant Professor

The Department of Biology at The University of Michigan solicits applications for a tenure-track faculty position. We seek individuals who use genetic and molecular approaches to answer fundamental questions in the molecular and cell biology of microorganisms. The successful candidate must have a Ph.D. in biology or microbiology and postdoctoral experience. The successful candidate will join an expanding group of cellular and molecular biologists in the department whose research interests embrace a wide range of basic biological phenomena. In addition to establishing a successful research program, the candidate will be expected to participate in undergraduate and graduate teaching of the department. To apply, send a C.V., copies of reprints and brief summaries of present research and future research plans to:

Chair, Microbiology Search Committee
Department of Biology
The University of Michigan
Ann Arbor, MI 48109-1048

Have three letters of reference sent directly. The closing date is November 1, 1994.

The University of Michigan is an Affirmative Action/Equal Opportunity Employer

NRC-CNRC

The National Research Council (NRC) is Canada's premier science and technology organization. Currently, the **Institute for Biodynamics** and the **Institute for Biological Sciences** are looking for Research Associates in the following specialties:

Physiology/Biophysics (Winnipeg, Manitoba)

Reference Number: BD-94-RA2-SC

Your background and interests lie in the area of ischemia-reperfusion injury and cytotoxic/vasogenic edema. Your research will be aimed at complementing current work that focuses on the heart and brain, with MRI and spectroscopy being an integral part of the analytical and diagnostic approaches.

Neuroscience (Winnipeg, Manitoba)

Reference Number: BD-94-RA1-SC

You will study the mechanisms, treatment and diagnosis of brain injury using a variety of techniques, including high-field magnetic resonance and quantitative autoradiography.

Neuroscience (Ottawa, Ontario)

Reference Number: BS-94-RA2-SC

You will study the mechanisms of neuronal injury in neurodegenerative diseases. A PhD in a neuroscience-related field and expertise in molecular biology as it relates to neuronal cell injury and/or cell signaling mechanisms is required.

All positions are term appointments, with a possibility of renewal up to a maximum of five years.

A security clearance will be required for all positions. The salary being offered is commensurate with qualifications and experience. Candidates must have acquired their PhD within the past five years or must expect to obtain the degree before taking up an Associateship.

To explore any of these opportunities, send your resume and a statement of research interest, before September 30, 1994, quoting the appropriate reference number, to **The Recruitment and Staffing Group, National Research Council Canada, Ottawa, Ontario K1A 0R6**.

Your interest in employment at NRC is appreciated. However, only candidates selected for an interview will be contacted.

NRC is an equal opportunity employer. Vous pouvez obtenir ces renseignements en français.



National Research Council Canada
Conseil national de recherches Canada

Canada

REGIONAL FACILITATOR
for
Rice-Wheat Cropping Systems Consortium

The International Crops Research Institute for the Semi-Arid Tropics (ICRISAT), is the convener of the "Consortium on Research Initiatives on Sustaining Rice-Wheat Cropping Systems in the Indo-Gangetic Region". At the request of Consortium members, ICRISAT is seeking a Regional Facilitator to assist in implementing a planned research program.

The Consortium has been established by a group of donors to facilitate national and regional research that addresses sustainability issues in rice-wheat based cropping systems. The Consortium will manage a regional research program that involving National Agricultural Research Systems of Bangladesh, India, Nepal, and Pakistan, and three international agricultural research centers; the *Centro Internacional de Mejoramiento de Maiz y Trigo* (CIMMYT), the International Rice Research Institute (IRRI), and ICRISAT. The Regional Facilitator will play a pivotal role in this program and its related activities.

The Regional Facilitator will be an internationally recruited, well established, internationally respected scientist. He/She will be responsible to a Regional Steering Committee and will also act as its ex-officio Member-Secretary. Policy guidance on technical matters will be provided by a Regional Technical Coordination Committee. The Regional Facilitator will maintain liaison with donors, reporting to a Donor Support Group; and will plan and manage the work of the Facilitation Unit. He/She will act as a catalyst to promote regional co-operation in technology generation and its dissemination in the member countries. The appointee will interact with Conveners of member countries to ensure that research results are effectively synthesized and reported, and will also review the research, report to the Committees, and assist them in their work. The Facilitator and the facilitation unit will be administered by ICRISAT, and will be located in New Delhi, India.

Applicants should have a Ph.D. degree in any branch of agriculture, and at least 20 years experience in cropping systems or a related field of research. Evidence of active sustained research and professional standing in agronomy/soils/cropping systems research is essential, as is experience in multi-disciplinary research team leadership. Candidates should be familiar with networking procedures, and have a good knowledge of agricultural and administrative systems in the Asian region. They should also have an established record of managerial and administrative responsibilities in the international arena, the ability to develop rapport with national and international peers, and the ability to be an effective spokesperson for collaborative research initiatives involving many different stakeholders. Proficiency in oral and written English is essential.

The salary and benefit package, for a 2-year (renewable) contract will be competitive with that of other internationally recruited staff in CGIAR Centers. ICRISAT is an equal opportunity employer.

Applications should reach the Director General, ICRISAT, Patancheru 502 324, Andhra Pradesh, India (Phone: 91-40-596161; Fax: 91-40-241239 or 91-40-238451; telex: 422203 ICRI IN) by 15 November 1994. Applicants should detail their special qualifications for the position, and send a current curriculum vitae, the names and addresses of the three referees (including fax/telex/e-mail), and the date of their earliest availability.

Senior Research Scientist

Givaudan-Roure Corporation, a global leader in the Flavor and Fragrance industry is seeking a highly qualified scientist to join its Applied Research Group (Flavor Division). In this position, you will actively participate in the development and implementation of a research program which utilizes the principles of biosynthesis, intermediary metabolism and biocatalysis to devise practical biotechnological processes to obtain flavor ingredients. The successful candidate will possess a PhD in Biochemistry, Microbiology or Food Science plus 3-5 years of post-graduate experience in a flavor or food related research program, preferably in an industrial environment. Good communication skills are essential as is the ability to function effectively in a team environment.

Givaudan-Roure offers a competitive salary, excellent benefits as well as the opportunity for professional growth. Located only a few minutes west of Manhattan, Givaudan-Roure's Clifton facility affords access to the cultural attractions of New York along with the ability to live in many outstanding suburban communities.

For consideration, send resume with salary requirements to:
Human Resources, Department PC

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Faculty Positions in Quantitative Genetics and Genetic Epidemiology Department of Genetics and Molecular Medicine Emory University School of Medicine

The Department of Genetics and Molecular Medicine is seeking faculty in the fields on quantitative genetics and genetic epidemiology. The department has special interest in individuals with experience in human population genetics, the quantitative relationships between genetic and environmental factors in human disease, and/or the development and application of statistical tools in human genetics. The current department faculty interests in related areas include gene mapping through linkage analysis, delineation of genetic mechanisms of complex disorders including non-Mendelian inheritance, studies of inborn errors of metabolism, mechanisms of chromosomal abnormalities, the population genetics and evolution of the mitochondrial genome, and studies of developmental genetics using mouse models. In addition to developing an active and competitive research program, the successful candidate will be expected to participate in the teaching of medical and graduate students. Newly renovated office and laboratory space within the department is available as part of the expanding biomedical research programs on campus. Interactions with the School of Public Health at Emory and the Centers for Disease Control and Prevention provide exciting research opportunities.

Candidates should send their curriculum vitae, their research goals and names of three references to:

Stephanie L. Sherman, Ph.D. and
Douglas C. Wallace, Ph.D.
Department of Genetics and Molecular Medicine
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Dr. Robert H. Rownd, Director
Center for Molecular Medicine and Genetics
Wayne State University School of Medicine
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The Faculty of Medicine and Health Sciences is an emerging school of medicine established by Royal Decree in 1986 with the clear remit of becoming an international center of excellence both in terms of teaching and research. To this end applications are invited from individuals to hold academic appointments within the Department of Human Anatomy.

Candidates should possess a degree in medicine, veterinary science, dentistry or anatomy and a higher university degree (e.g. PhD, MD or equivalent). An interest and relevant experience of teaching human anatomy to undergraduate medical students is essential. Fluency in English is a must as this is the language of instruction.

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The University of Southern California/Norris Comprehensive Cancer Center is developing a program in Gene Therapy and recruiting a tenure-track faculty member in the Department of Medicine with a joint appointment in a basic science department. We are looking for individuals at the **ASSISTANT** or **ASSOCIATE PROFESSOR** level with interests in gene therapy of cancer. It is expected that in this position the recruit will develop an independent research program. The Cancer Center will provide the individual with a highly interactive environment and ample opportunities to collaborate with other strong research groups interested in gene therapy, molecular epidemiology, gene regulation and tumor invasion and metastases. Salaries and start-up funds are highly competitive and space will be available in the new cancer center tower which is currently under construction.

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Faculty Positions in Human Genetics and Gene Therapy Department of Genetics and Molecular Medicine

Emory University School of Medicine

The Department of Genetics and Molecular Medicine is seeking M.D. or Ph.D. faculty interested in the molecular basis and treatment of human disease. Areas of special interests include novel genetic mechanisms of disease such as multifactorial inheritance, imprinting, genomic instability and in new approaches to treatment including gene therapy. Current department faculty interests include inborn errors of metabolism, quantitative and population genetics, origins and mechanisms for chromosomal abnormalities, mitochondrial genetics, mammalian germ cell development, development of mouse models of disease, and gene therapy. Most appointments will be at the Assistant Professor level, although more senior individuals will also be considered at their appropriate rank. In addition to developing an active and competitive research program, the successful candidate will be expected to participate in teaching of medical and graduate students. Newly renovated office and laboratory space within the department is available as part of the expanding biomedical research programs on campus.

Candidates should send their curriculum vitae, their research goals, and the names of three references to:
Dean J. Danner, Ph.D. and
Douglas C. Wallace, Ph.D.

Department of Genetics and Molecular Medicine
1462 Clifton Road, N.E. Room 429C
Emory University School of Medicine
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NATIONAL SCIENCE FOUNDATION (NSF)

NSF's Division of Environmental Biology is seeking qualified applicants for Program Director positions in FY 95. The incumbents to these positions will administer grant programs of research in the Long-Term Projects in Environmental Biology Cluster (Biotic Surveys and Inventories and Research Collections in Systematics and Ecology Programs); and Ecological Studies Cluster (Ecology Program). These positions will be filled on a one- or two-year visiting scientist/temporary (Vacancy Announcement #EX94-37, Ecologist; and EX94-39, Long-Term Projects) or permanent (Vacancy Announcement EX94-36, Ecologist; EX94-38, Long-Term Projects) basis and are excepted from the competitive civil service. The per annum salary range is \$59,022 to \$91,988. Applicants must have a Ph.D. or equivalent experience. In addition, six or more years of successful research experience beyond the Ph.D. is required. Some administrative experience is also desired. Applicants should submit a Standard Form 171, Applications for Federal Employment, to the National Science Foundation, Division of Human Resource Management, Suite 315, 4201 Wilson Blvd., Arlington, VA 22230.

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THREE POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS. The U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Avian Disease and Oncology Laboratory (ADOL), East Lansing, Michigan.

Position No. 1 is a Microbiologist designed to investigate antigen presentation of oncogenic viral antigens at the molecular level. Research involves the biochemical isolation and amino acid sequencing of peptide motifs presented by avian MHC class I. Function of identified viral epitopes will be analyzed using synthetic peptides in immunologic essays. Position requires working knowledge of biochemistry and immunology. Experience in molecular biology and computer modeling helpful. Work involves state-of-the-art peptide isolation and sequencing strategies such as microbore HPLC, CE, and mass spectrometry.

Position No. 2 is a Microbiologist designed to participate in an ongoing research project to identify the Marek's disease virus through insertional mutagenesis and marker rescue.

Position No. 3 is a Research Geneticist designed to identify QTLs associated with resistance to Marek's disease and production traits. Research will utilize a genome-map approach. Applicants with quantitative genetics are preferred. Experience in molecular biology and gene mapping are desirable.

All positions are funded for two years. All positions have a beginning salary of \$34,662 with benefits available. Ph.D. required. To apply, please send curriculum vitae, selected papers, and the names of three references. Contact for Position No. 1 is Dr. Henry D. Hunt, For Position No. 2 is Dr. Robert F. Silva, and for Position No. 3 is Dr. Hans H. Cheng, USDA, ARS, ADOL, 3606 East Mount Hope Road, East Lansing, MI 48823; telephone (517) 337-6828; e-mail, hunthd@pilot.msu.edu, silvar@pilot.msu.edu, or hcheng@pilot.msu.edu. Applications should be marked "Announcement Number 4N034."

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POSITIONS OPEN

MOLECULAR VIROLOGIST

The Department of Ophthalmology, Baylor College of Medicine, seeks a molecular virologist to develop an independent research program. Rank is open. Research on herpes simplex virus is preferred. Potential areas of study include viral pathogenesis, gene expression, vectors for therapeutic gene delivery, and host inflammatory responses to viral disease. Joint faculty appointment is available in the Division of Molecular Virology with participation in the graduate program in virology. Applicants for this tenure-track position should have a Ph.D., at least two years of postdoctoral experience, and demonstrated research productivity. Send curriculum vitae, names and addresses of at least three references, and a statement of research interests to: **Search Committee for Molecular Virologist, Department of Ophthalmology, Cullen Eye Institute, Baylor College of Medicine, One Baylor Plaza (NC 200), Houston, TX 77030.** *Baylor College of Medicine is an Equal Opportunity/Affirmative Action/Equal Access Employer.*

CARBOHYDRATE CHEMIST

Harvard Medical School (HMS) and Brigham and Women's Hospital (BWH) seek a Ph.D.-trained **CARBOHYDRATE CHEMIST** with expertise in structural and conformational analysis of polysaccharides for a joint faculty position to collaborate with a group of microbiologists and immunochemists. The successful candidate must be interested in the role of carbohydrates in bacterial virulence and the use of polysaccharides or oligosaccharides in vaccine development. Expertise in NMR analysis of carbohydrates is essential. Depending upon qualifications and experience, the successful candidate will be offered an appointment as **ASSISTANT PROFESSOR**. Send curriculum vitae and names of three references to: **Professor Dennis L. Kasper, Co-Director, Channing Laboratory, 180 Longwood Avenue, Boston, MA 02115.** FAX: 617-731-1541. *HMS and BWH are Affirmative Action/Equal Opportunity Employers. Women and minorities are encouraged to apply.*

PALEOECOLOGIST

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Harvard University is an Equal Opportunity Employer and applications from women and minorities are strongly encouraged.

ANNOUNCEMENT



RESEARCH GRANTS

The **American Health Assistance Foundation** invites applications from researchers at non-profit institutions for the following programs:

Alzheimer's Disease Research: grant awards of up to \$100,000 per year for up to two years (renewable) for research into the causes and treatment of Alzheimer's disease. Application deadline: October 31, 1994.

Glaucoma Research: grant awards of up to \$25,000 per year for up to two years (renewable) for research into the causes and treatment of glaucoma. Application deadline: November 30, 1994.

National Heart Foundation Grants: starter grants of up to \$15,000 for one year (renewable) for research into the cause and treatment of stroke or cardiovascular disease. To qualify for a starter grant, the investigator must be an assistant professor (or equivalent) beginning an independent research career. Application deadline: October 31, 1994.

For information and application forms contact: **Research Grants Manager, American Health Assistance Foundation, 15825 Shady Grove Road, Suite 140, Rockville, MD 20850.** Telephone: 301-948-3244.

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