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How to Submit a Classified Ad:

Prepare double-spaced typewritten copy. Do not include any abbreviations. Science will edit and type set ads according to Science guidelines. Include billing information, and desired publication date. Available categories: Positions Open, Meetings, Announcements, Courses and Training.

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For rates and info. about fractional display ads (all ads ¼ page and larger), contact:

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European Recruitment Advertising
Telephone: 444 223 302 067
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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 decline to publish advertisements submitted to it.
THE GLENN FOUNDATION FOR MEDICAL RESEARCH Announces The winner of the 1993 Glenn Foundation Award EARL R. STADTMAN, PhD National Heart, Lung and Blood Institute, NIH, Bethesda, MD

Dr. Earl Stadtman, one of the pioneers in providing a framework for identification and quantification of cellular damage that can lead to premature aging, was the recipient of the 1993 Glenn Foundation Award for significant research in the biology of aging. Dr. Stadtman was honored for his research in defining specific molecular mechanisms that implicate discrete biochemical changes in the loss of physiological function.

The $20,000 award was presented to Dr. Stadtman at The Gerontological Society of America’s 48th Annual Scientific Meeting in November of 1993. The award is funded by the Glenn Foundation for Medical Research in Santa Barbara, California and administered by The Gerontological Society of America. The society is the national multidisciplinary organization for researchers, educators and practitioners in aging.

The deadline for the 1994 Glenn Award selection process is May 8. For further information, contact: Awards Coordinator, The Gerontological Society of America, 1275 K Street, NW, Suite 350, Washington, DC 20005-4006: (202) 842-1275.

RISK MANAGEMENT: ENVIRONMENTAL RESEARCH

The Center for Risk Management of the Health Sciences Research Division at the Oak Ridge National Laboratory (ORNL) has immediate PhD-level openings in the following areas:

RISK ASSESSMENT
Requires a PhD in geology, health physics, environmental sciences, or chemistry, together with a working knowledge of risk assessment methodologies and experience dealing with federal agencies.

BIOTECHNOLOGY
Requires experience in either prokaryotic molecular cloning methods (Bioengineering) or in developing noninvasive diagnostic techniques (medical biotechnology).

SOIL SCIENCE
Must have demonstrated ability to direct research on the effectiveness of soil remediation technologies that remove volatile organics from soils.

ORNL is managed by Martin Marietta Energy Systems, Inc., for the U.S. Department of Energy. For immediate consideration, send your resume by May 2, 1994 to: Dr. Curtis Travis, Oak Ridge National Laboratory, Dept. SCI-0408, P.O. Box 2008, Oak Ridge, TN 37831-6492.

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

Postdoctoral Position

Markey Center for Molecular Genetics
Department of Microbiology and Molecular Genetics
University of Vermont School of Medicine


Applicants should forward a curriculum vitae, and description of research interests/experience and three letters of reference to:

Dr. Richard Fishel
Department of Microbiology and Molecular Genetics
Stafford Building
University of Vermont School of Medicine
Burlington, VT 05405

The University of Vermont is an equal opportunity/affirmative action employer

Viral Vaccine Research

Lederle-Praxis Biologicals, a division of American Cyanamid Company, is recognized internationally as a leader in the research, development and manufacture of vaccines for prevention of viral and bacterial disease. Currently, we are seeking an energetic and talented Research Associate to join the Biochemistry Group in our Viral Vaccine Research Department.

Our current projects require the expression and characterization of native and recombinant viral antigens. Applied technologies range from protein purification and immunoassay to cell culture in small scale bioreactors. There is extensive interaction with our Molecular Biology, Immunobiology, Virology and Process Development groups.

Qualified applicants will have a Master’s degree in biological sciences, at least 4 years of experience with tissue culture, virus assays and protein purification, and strong written and verbal communication skills.

We offer professional challenge, a competitive salary, a liberal benefits package, and a suburban location, just 30 miles northwest of NYC which provides a broad range of recreational and cultural activities.

For consideration, send your resume to: Lederle-Praxis Biologicals, Dept. KM8875/34A/123, North Middletown Road, Pearl River, NY 10965. We are an equal opportunity employer.
LIFE SCIENCE EDUCATION POSITION


AQUATIC ECOLOGY

KELLOGG BIOLOGICAL STATION

KELLOGG BIOLOGICAL STATION (KBS) of Michigan State University invites applications for a tenured-system ASSISTANT PROFESSOR position in aquatic ecology. Applicants should have interests in interdisciplinary research that addresses ecological and chemical interactions in aquatic systems. The annual salary is competitive.


ACADEMIC POSITION

YALE UNIVERSITY

SCHOOL OF MEDICINE

JUNIOR FACULTY POSITION

Applications are solicited for a tenure-track position at the rank of ASSISTANT PROFESSOR (term appointment) in the Department of Molecular Biophysics and Biochemistry at Yale University. The appointment is at the ASSISTANT PROFESSOR level. Candidates are expected to develop a strong program in basic research in gene transfer, epigenetics, or gene therapy and related areas applicable to our cancer programs. We offer integration into a stimulating, young and research-oriented faculty in immunology and microbiology and participation in a collaborative and engaged research enterprise. Candidates should have obtained a Ph.D. or M.D. degree and postdoctoral experience studying the molecular biology of epithelial transporters and/or channels, and be board eligible in clinical nephrology. Opportunities are available for collaborative research, as well as for graduate and medical education.

Members of minority groups are encouraged to apply. Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by May 10, 1994, to: Dr. Walter F. Boren, Chair, Department of Cellular and Molecular Physiology, 333 Cedar Street, P.O. Box 3333, New Haven, CT 06510. Yale University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION

GENE TRANSFER, TREATMENT OF CANCER

University of Miami School of Medicine

The Department of Microbiology and Immunology and the Sylvester Comprehensive Cancer Center invite applications for two tenure-track faculty positions, one ASSISTANT and/or one ASSOCIATE PROFESSOR level. Candidates are expected to develop a strong program in basic research in gene transfer, epigenetics, or gene therapy and related areas applicable to our cancer programs. We offer integration into a stimulating, young and research-oriented faculty in immunology and microbiology and participation in a collaborative and engaged research enterprise. Candidates should have obtained a Ph.D. or M.D. degree and postdoctoral experience studying the molecular biology of epithelial transporters and/or channels, and be board eligible in clinical nephrology. Opportunities are available for collaborative research, as well as for graduate and medical education.

Members of minority groups are encouraged to apply. Complete curriculum vitae, a statement of research interests and goals, and three letters of reference should be sent by May 10, 1994, to: Dr. Eckhard P. Podack, M.D., Ph.D., Chairman, Search Committee, Department of Microbiology and Immunology, University of Miami School of Medicine, P.O. Box 016960 (R-138), Miami, FL 33101. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

PHYSICIAN/MEDICAL DIRECTOR

The Department of Psychiatry at the University of Mississippi Medical Center, under the direction of its new Chairman, Dr. Michael W. Henderson, is seeking a RESEARCH ASSISTANT PROFESSOR who is an expert in the molecular genetic basis of psychiatric disorders and pathophysiology of mental illness. The position is available June 1, 1994. The University of Mississippi Medical Center is a regional health care facility with over 1,000 beds and 1,500 employees. It is the only academic health care institution in the state and is centered in the heart of the state's only major metropolitan area. The Department of Psychiatry is a 150-bed acute care facility, with a large teaching program, and is the clinical affiliate of the Department of Neuroscience, School of Medicine, University of Mississippi. The University of Mississippi is an Affirmative Action/Equal Opportunity Employer. Minority and women candidates are encouraged to apply.

POSSITION OPEN

EDITOR, Journal of Clinical Pharmacology, Official Publication of the American College of Clinical Pharmacology. Eminence in the field of pharmacology, physiology, or chemistry, or both, is required. Experience as an editor, or as a member of scientific editorial boards of journals preferred, but not necessary. Interested and qualified candidates should submit current curriculum vitae by May 15, 1994, to: Dr. David B. Wise, Chair, Search Committee, 400 O马上Kacy Boulevard, Yorkville, NY 13495-1332.

CHAIR, DEPARTMENT OF BIOCHEMISTRY: Applications and nominations are invited for the position of Chair of the Department of Biochemistry in the James H. Quillen College of Medicine at East Tennessee State University. Candidates must have a Ph.D. or M.D. degree, or both, an active research program and a distinguished record of research accomplishments including peer-reviewed funding, a commitment to teaching medical students and graduate students, and a desire to build and lead a department of prominence. The Department provides a strong commitment to graduate and medical education in an expanding research environment with anticipated construction of an additional basic science building. The Chair should provide curriculum vitae and names, addresses, and telephone numbers of four references. Screening of applications will begin April 1, 1994, and continue until the position is filled. Applications should be directed to: Dr. Robert Wondergem, Search Committee Chair, Department of Biochemistry, East Tennessee State University, Johnson City, TN 37614. Applications from women and minorities are encouraged. East Tennessee State University is an Equal Opportunity Employer.

SEEKING CHIEF OF SURGERY, DEPARTMENT OF VETERANS AFFAIRS MEDICAL CENTER, PALO ALTO—The Department of Surgery at Stanford University School of Medicine in conducting a search for an experienced academic surgeon to serve as Chief of Surgery at the Palo Alto Veterans Affairs Medical Center. Candidates should be experienced academic surgeons with an excellent record of clinical and laboratory research, and administrative accomplishments. The appointment will be at the level of Associate Professor or Professor based on the candidate's qualifications, and carry the title Vice Chair of Surgery. Candidates for this position should be diplomats of the American Board of Surgery. The Palo Alto Veterans Affairs Medical Center is a Dean's hospital and closely affiliated with Stanford University. All surgeons are Stanford faculty members; all surgical services are integrated with VA and are fully integrated with their respective programs at Stanford. Construction of a new 228-bed clinical facility is underway. In addition, several satellite outpatient facilities are being developed near the approximately 30 miles from Palo Alto, are under development. The San Jose clinic is expected to open in January 1995. Such facilities provide a stable referral base consistent with changes in health care delivery. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. Interested applicants should write to: Dr. John E. Niederhuber, Chair, Department of Surgery, MSOB Room X-300, Stanford University School of Medicine, Stanford, CA 94305-5408.
PIONEER HI-BRED INTERNATIONAL, INC.

Pioneer is seeking applicants for our ongoing program of crop improvement.

PROJECT LEADER, Disease Resistance Gene Expression (JOB #1357 - A JORGENSEN) - the primary responsibility of the person occupying this position is to identify, isolate, employ, and assay gene expression systems in transgenic plants. The successful candidate is expected to be an expert in the analysis and manipulation of nucleic acids, including recombinant DNA technology. Candidates who have experience studying transgene expression are desired. EDUCATION/EXPERIENCE: Ph.D. or equivalent experience in area of molecular biology plus 3-5 years of directly related laboratory experience.

Applications received by April 22, 1994 will be assured of consideration. However, applications will be considered until the position is filled.

Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Pioneer Hi-Bred International, Inc. is an Equal Opportunity employer. Please send TWO sets of resume information. Indicate the JOB # on the envelope and your correspondence including names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Attn: Jo Ann Jorgensen JOB #1357-A
P.O. Box 1004
Johnston, IA 50131-1004

Cellular Immunology
Gene Therapy

Postdoctoral fellowships are available in the Surgery Branch, NCI for scientist with experience in cellular immunology or molecular biology for research projects dealing with:

1. Studies of the cellular immune response to tumor antigens
2. Gene therapy of cancer

Send resume to:
Steven A. Rosenberg,
M.D., Ph.D.
Chief, Surgery Branch
National Cancer Institute
National Institutes of Health
Building 10, Room 2B42
Bethesda, MD 20892
Telephone: 301-496-4164

NIH is an Equal Opportunity Employer
POSTDOCutorial POSITION

POSTDOCTORAL POSITION available immediately to participate in molecular biology of and/or cell biology of animal RNA viruses. Strong experience in biochemistry or molecular biology or tissue culture essential. Previous experience in virology not required. Please contact: Dr. Raja Ramasamy, Microbiology, Meharry Medical College, Nashville, TN 37208. Telephone: 615-327-0672. Candidates may also send curriculum vitae and two letters of recommendation to the above address.

POSTDOCTORAL POSITION

A position is immediately available for an individual interested in proteolytic mechanisms of cellular migration through extracellular matrix. The person should have a working knowledge of protein biochemistry and recombinant DNA techniques. The position is for a one-year term which may be extended to two years. Interested persons should send curriculum vitae and the names and telephone numbers of four references to: Dr. Jay W. Fox, Department of Microbiology, University of Virginia Health Sciences Center, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/Affirmative Action Employer and encourages applications from women and minority scientists.

POSTDOCTORAL POSITION available immediately to study adrenergic receptor modulation of calcium homeostasis and contractile function in cardiac myocytes. Preferred candidates will have experience in quantitative fluorescence microscopic techniques. Send curriculum vitae and three letters of recommendation to: Dr. Susan F. Steinberg, Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

TWO POSTDOCTORAL POSITIONS available, one immediately, to study blood cell differentiation, including gene expression, apoptosis and suppression of leukemogenesis, at the molecular and cellular level. The role and regulation of transcription factors, proto-oncogenes and novel genes is being investigated (MCB 12, 2493 (1992); MCB 13, 841 (1997): Cell 72, 197 (1993): Blood 81, 2257 (1993); MCB 14, 2852 (1994); MCB 14, 2861 (1994)). Send curriculum vitae and names of three references to: Dr. B. Hoffman and D. Liebermann, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3307 North Broad Street, Philadelphia, PA 19140. Temple is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.

POSTDOCTORAL POSITION available to investigate genes involved in inflammation using tissue culture, transgenic mouse and embryonic stem cell technologies. Experience with molecular and cellular biology required. Send curriculum vitae, names of three references, and statement of research interests to: Mary C. Dinan, Ph.D., National Institute of Child Health and Human Development, Indiana University School of Medicine, 702 Barnhill Drive, Indianapolis, IN 46202. Equal Opportunity/Affirmative Action Employer.

DUPONT HASKELL LABORATORY

Haskell Laboratory for Toxicology and Industrial Medicine, DuPont, has a POSTDOCTORAL POSITION available immediately. The Company is seeking qualified applicants for a position in Environmental Sciences. The position is available immediately to establish and evaluate in vivo toxicity testing methods. Renewed interest in environmental research required. Please submit resume and two letters of recommendation to: Mary Jane Hudson, Administrative Assistant, Department of Toxicology and Industrial Medicine, Elkin Road, P.O. Box 50, Newark, DE 19714.

POSTDOCTORAL POSITIONS to study the cell and molecular biology of macrophage activation related to disease. (1) Intrinsinc defects in the mediation of cytokine-mediated, autocrine mechanisms of inflammation, gene regulation, kinase signaling, patterns of T cell activation (David Bell, Ph.D.). (2) Macrophage responses to M. tuberculosis: gene expression, cytokines, lectin-like receptors, and cytoskeleton (Matthew Fenton, Ph.D.). Immunology Unit, Boston University Medical Center, 88 East Newton Street, Boston, MA 02118. FAX: 617-638-8259.

SANDIA NATIONAL LABORATORIES/STERNING-WINTHROP PHARMACEUTICALS

POSTDOCTORAL POSITION IN COMPUTATIONAL CHEMISTRY

Sandra National Laboratories in Livermore, California, and Sterling-Winthrop Pharmaceuticals Research Division, Boston, Massachusetts, are seeking a research team to be a part of a Department of Energy sponsored CRADA (Cooperative Research and Development Agreement). The goal of this project is to develop computational chemistry methods for drug design. We have immediate openings for postdoctoral appointments in several areas. Successful candidates should have a Ph.D. in chemistry or a related field in the development. In addition, they should have experience in one of the following areas: protein homology modeling, drug design and molecular docking; quantum mechanics; and crystallography. Send curriculum vitae, letters of recommendation, and a statement of research interests to: Dr. Paule C. Simpson, M.D., Professor of Medicine UC, VAMC 111-C-8, 4150 Clement Street, San Francisco, CA 94121. Closes May 9, 1994.

POSTDOCTORAL POSITION IN IMMUNOLOGY


POSTDOCTORAL POSITIONS OPEN

Several positions are available immediately for molecular biologists, cell biologists, and electrophysiologists to study the regulation of ion channels and exocytosis during development. The position should be shared among two research groups familiar with patch clamping, and experience with perforated patches is desirable. Interested candidates should send curriculum vitae and names of three references to: Dr. Harvey Flesher, Resources, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545 USA. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately at Harvard Medical School and Beth Israel Hospital for a Ph.D. applicant to work on the genetics of antimicrobial resistance (see Journal of Medical Chemistry 35: 1212-1215, 1992). Laboratory actively involved in biochemical, molecular cloning, and gene expression. Send curriculum vitae and three letters of recommendation to: Carmen A. Piliapalo, M.D., Director, New England Eye Center, 750 Washington Street, Boston, MA 02111.

POSTDOCTORAL POSITION AVAILABLE—HISPANIC LABORATORY RESEARCH

One or two postdoctoral research positions are available at the New England Eye Center, Tufts University School of Medicine, to conduct ophthalmic laser research and to develop three-dimensional imaging techniques for use in laser surgery. Potential candidates should have a strong background in optics and lasers, good communication skills, and an ability to work closely with clinical investigators. A Ph.D. degree in biomedical engineering, biophysics, optics, or related field is preferred. Successful candidates will be encouraged to develop their or her own independent research project. Please send curriculum vitae and three letters of recommendation to: Carmen A. Piliapalo, M.D., Director, New England Eye Center, 750 Washington Street, Boston, MA 02111.

POSTDOCTORAL POSITION AVAILABLE—CLONING OF VIRUS GENES

An NIH-funded postdoctoral position is available in a multidisciplinary training program to identify genes conferring susceptibility to psoriasis, a common, HLA-associated, familial skin disease. Techniques to be employed include selection cloning, CpG island identification, exon trapping, and mutation detection. Applicants should possess a Ph.D. with experience in molecular biology or molecular genetics, and must be U.S. citizens or permanent residents qualified to fund for. Minority students are particularly encouraged to apply.

Please send curriculum vitae to: James T. Elder, M.D., Ph.D., Department of Dermatology, University of Michigan, CS60A MSRB II, Box 00672, University of Michigan, Ann Arbor, MI 48109-0672. The University of Michigan is a non-discriminatory, Affirmative Action Employer.

RESEARCH WETLANDS ECOLOGISTS (GS-12). Two POSTDOCTORAL RESEARCH ASSOCIATES positions (Forester, Ecologist, Plant Physiologist, and Hydrologist) are available for the Water Resources Center, University of South Carolina, and Stoneville, Mississippi, to plan and conduct research in forest ecology, plant community dynamics, and forest hydrology. The Water Resources Center is responsible for forest wetland structure and functions in southern bottomland forests. Ph.D. in Forestry, Ecology, Hydrology, Plant Physiology, or Water Resources is required for these two post-doctoral positions, which will require extensive travel. Target starting date is June 15, 1994. A completed SF-171, transcripts, description of research interests, and an abbreviated curriculum vitae should be sent by July 1, 1994 to: Dr. Richard Quick, Southern Forest Experiment Station, USDA, 701 Loyola Avenue, New Orleans, LA 70113. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION IN VIRAL NEUROIMMUNOLOGY

The lab is interested in how viral infection and immunological mechanisms interact in the brain. The lab is looking for a postdoctoral fellow with a molecular/cellular background to work on these issues. Please send curriculum vitae and letters of recommendation to: Dr. Luisa M. Spall, Assistant Professor, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104. Equal Opportunity Employer.

POSTDOCTORAL POSITION in the molecular mechanism of T cell development in mice. Ph.D. or M.D. degree required plus experience in molecular biology. Send curriculum vitae and three letters of recommendation to: Dr. Lisa M. Spain, Assistant Professor, The Wistar Institute, 3601 Spruce Street, Philadelphia, PA 19104. Equal Opportunity Employer.
ELECTROPHYSIOLOGIST

The Electrophysiologist we seek will help us to examine the underlying mechanisms in, and the effects of, drugs on leukocyte development, activation and proliferation. The ideal candidate has 2 or more years post-doctoral experience in whole cell and single ion channel electrophysiological recording techniques with an emphasis on cell types involved in immune function. Experience in ion channel expression and regulation in xenopus oocytes is desirable.

Boehringer Ingelheim is located on a campus-like setting in a beautiful area of Western Connecticut. Boehringer offers a competitive salary and benefits package including relocation assistance for qualified candidates. To apply, send resume and salary history to: Dept. JC-1S, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, Ridgefield, CT 06877-0368. An equal opportunity employer m/f/d/v. As a progressive health care company, we have a non-smoking environment.

WE'RE CHANGING MILLIONS OF LIVES.
NOW IT'S YOUR TURN.

At Lederle-Praxis Biologicals, a division of American Cyanamid Company, we're pioneering the design, manufacture and marketing of vaccines so sophisticated, they're changing lives—right now.

Here, you'll help improve the quality of a lot of lives. Including your own. Our research facility, located in a suburb of Rochester, NY, is within easy reach of some of New York State's most attractive cultural, educational and recreational resources.

RESEARCH SCIENTIST

Immunology

Working in a multidisciplinary environment, you will interact with scientists from the Molecular Biology, Bacteriology, Virology, and Protein and Carbohydrate Chemistry Departments in the design and preclinical testing of prototype vaccine formulations.

To qualify, you should have a Ph.D. (or equivalent), 2-5 years' experience in humoral and cellular immunology, and a knowledge of the mucosal immune system.

At Lederle-Praxis, you'll enjoy a professional atmosphere and the kind of salary and benefits package you'd expect from an industry leader. Please send your resume to: Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta, NY 14586-9728. An Equal Opportunity Employer.

Boehringer Ingelheim

THE NEUROSCIENCES INSTITUTE

La Jolla, California

THE NEUROSCIENCES INSTITUTE (NSI) is an independent not-for-profit organization at the forefront of research on the brain. The NSI, located on the campus of The Scripps Research Institute in La Jolla, is also the home of the Neurosciences Research Program and serves as an international meeting place for neuroscientists; Fellows have opportunities to interact with visitors from many institutions worldwide.

EXPERIMENTAL NEUROBIOLOGY

Applications are invited for positions as Senior Fellow and Junior Fellow in Experimental Neurobiology. The NSI is beginning a research program in experimental neurobiology designed to increase understanding of brain processes at several organizational levels from the molecular to the cognitive. After completion of new NSI laboratory facilities in the autumn of 1994, research will be carried out in such areas as molecular biology, cellular neurobiology, pharmacology, neuroanatomy, functional brain imaging, and psychophysics. Fellows in Experimental Neurobiology will be expected to take advantage of opportunities for scientific exchanges with Fellows in Theoretical Neurobiology.

Applicants should be at the assistant professor (Senior Fellow) or postdoctoral (Junior Fellow) level and should have backgrounds in experimental neurobiology. Senior Fellows will be provided with adequate financial support to equip laboratories and maintain ongoing independent research programs. Starting dates for these positions will be autumn 1994 or thereafter.

THEORETICAL NEUROBIOLOGY

Applications are invited for positions as Institute Fellows in Theoretical Neurobiology. Since 1987, the NSI has had a research program dedicated to developing biologically based, experimentally testable theoretical models of neural systems. Current projects include large-scale simulations of neuronal networks, the design of behaving automata, and detailed formulations of biologically based models of perceptual systems. Advanced supercomputer facilities are available. Institute Fellows will have daily opportunities to interact with Fellows in Experimental Neurobiology.

Applicants should be at the postdoctoral or assistant professor level with strong backgrounds in experimental or theoretical neuroscience or related fields. Experience in computer modeling is especially welcome. Positions are now available.

All Fellows will receive stipends appropriate to their qualifications and experience. Candidates should send a short statement of research interests, a curriculum vitae, and the names of three references to: Dr. Gerald M. Edelman, Director, The Neurosciences Institute, 3377 North Torrey Pines Court, Suite 310, La Jolla, California 92037.
**POSTDOCTORAL POSITION**

The College of Agriculture and Life Sciences of North Carolina State University is searching for an outstanding individual to administer the teaching and research programs of the Department of Botany. Applicants must possess an established reputation in Plant Sciences, a Ph.D. degree and academic experience in teaching, advising, and research commensurate with the rank of Full Professor. Administrative experience, demonstrable leadership potential is preferred. Applicants should include a résumé with publication list, names and addresses of at least three references and a letter describing institutional interests and positions for the position. Date available is July 1, 1994, and the preferred application deadline is May 31, 1994, or until position is filled. Address applications to: Dr. Stephanie E. Curtis, Chair, Search Committee; Department of Genetics, Box 7614, North Carolina State University, Raleigh, NC 27695-7614. North Carolina State University is an Equal Opportunity/Affirmative Action Employer.

**THE HEBREW UNIVERSITY—HADASSAH MEDICAL SCHOOL JERUSALEM, ISRAEL**

**FACULTY POSITIONS**

Applications are welcomed for positions that will be available for the academic year, 1995/96:

(I.) Tenure-track faculty positions in basic medical sciences with preference to candidates who utilize modern molecular and/or cellular approaches. Ph.D. and/or M.D. degree and postdoctoral training are required. Excellence in research and teaching will be of prime importance for decisions of the search committee.

Applications should include curriculum vitae, a list of publications, three letters of recommendation, and a brief statement of research interests. Send applications, including the names of three references to: Dr. Daniel M. Knowles, Professor and Chairman, Department of Pathology, The New York Hospital—Cornell Medical Center, 525 East 68th Street, New York, NY 10065. Cornell University Medical College is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION IN EXPERIMENTAL ONCOLOGY**

St. Jude Children's Research Hospital

Memphis, Tennessee

A postdoctoral position is available to participate in an established research program investigating the role of specific chromosomal translocations in the etiology of pediatric solid tumors. Current investigations focus on the isolation and characterization of these breakpoints, the characterization of their transcriptional and transforming properties, and the development of molecular strategies for solid tumor therapy based upon targeting of their encoded proteins. The research environment is highly interactive with opportunities for linking projects to medical applications in the areas of cancer diagnosis and therapeutics. Candidates with a Ph.D. and/or M.D. degree interested in joining a multidisciplinary group utilizing techniques of biochemistry, molecular biology, and molecular cytogenetics to understand mechanisms underlying tumorigenesis are invited to submit curriculum vitae, reprints, and the names of three references to: Dr. Davis N. Shapiro, Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITION**

available for studies of signal transduction and contractile system function in vascular smooth muscle. Intradisciplinary approaches involving biochemistry, molecular biology, cellular physiology, and pharmacology will be utilized. Candidates with a Ph.D. degree interested in joining a multidisciplinary group utilizing techniques of biochemistry, molecular biology, and molecular cytogenetics to understand mechanisms underlying tumorigenesis are invited to submit curriculum vitae, reprints, and the names of three references to: Dr. Davis N. Shapiro, Department of Experimental Oncology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. An Equal Opportunity/Affirmative Action Employer.

**POSTDOCTORAL POSITIONS OPEN**

**LAB SUPERVISOR**

**MOLECULAR BIOLOGY**

**MICROBIOLOGICAL ASSOCIATES, INC.** is an established and expanding biotechnology and toxicology testing service business. This individual will supervise a highly skilled multi-project commercial molecular biology lab. Requirements include: recent or upcoming research experience in molecular biology, cloning and sequencing techniques. Expertise in and understanding of the extensive requirements of regulatory submission and computer software operations is required. Experience in a high-volume commercial setting is a must. Salary range is competitive. Applications are encouraged from individuals currently living in the New England area. Please mail your curriculum vitae and a list of three references to: Dr. Kyoko Hayakawa or Dr. Richard R. Hardy, Microbiological Associates, Inc., 701 Blackwell Road, Rockville, MD 20850. FAX: (301) 738-1036. Equal Opportunity Employer/mlf/dv/w.

**POSTDOCTORAL POSITION**

Available immediately to study the transport of RNA on cytoskeletal elements in oligodendrocytes. The project will involve molecular/cellular biology coupled with video and confocal microscopy to examine the motor molecules responsible for movement per se and to identify the adaptor proteins involved in targeting specific RNA's for transport. A strong background in cellular and molecular biology is required and experience with microscopic analysis is highly desirable. The project will be a collaborative effort among the labs of Dr. John Davis, Dr. J. Deutscher and Dr. Stephen King. Send curriculum vitae and the names and addresses of three references to: Dr. Murray Deutscher, Department of Molecular Biology, University of Connecticut Health Center, Farmington, CT 06032–3305. Telephone: (203) 679-2130 (JC); 679-2506 (MD); 679-3347 (SK). FAX: (203) 679-3408.

An Affirmative Action/Equal Opportunity Employer M/F/PDV.

**POSTDOCTORAL POSITION**

available to study molecular and cellular mechanisms involved in controlling developmental processes. Project will focus on structure/function relationships in G-protein coupling and receptor desensitization. Ongoing research involves analysis of thromboxane receptor gene regulation and thromboxane effects in vascular smooth muscle and platelets. Ours is a well-funded laboratory of Ph.D.'s, M.D.'s and Ph.D./M.D.'s working together to characterize thromboxane's role in platelet/vascular interactions. Interested parties should send curriculum vitae and references to: Gerald W. Dorn II, Associate Professor of Medicine and Cell Biology and Genetics, University of Cincinnati Medical Center, 231 Bethesda Avenue, MLO542, Cincinnati, OH 45267-0542. FAX: (513) 558-3116. The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer.

**POSTDOCTORAL POSITION (2 years)** is available immediately for conducting research on tumor regression and delayed development of specific lung tumor relies. Strong background in molecular biology is essential. Molecular biological, biochemical and immunohistochemical techniques will be used to study the regulation of genes encoding pulmonary surfactant proteins, and growth factors and their receptors. Application deadline is May 1, 1994. Send curriculum vitae and three letters of recommendation to: Sikandar Katal, Ph.D., Associate Professor, Department of Pathology, Division of Cellular and Molecular Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261.

**POSTDOCTORAL POSITIONS IN IMMUNOLOGY**

Immediately available for recent Ph.D. or M.D. interested in cellular and molecular aspects of lymphocyte development and maturation. Successful candidate will receive training in state-of-the-art molecular and immunobiologic techniques. Current research areas include: helper T cell function; new specific human T cell clones specific for mouse T cell memory (Hayakawa); and B cell development, selection and repertoire formation (Hardy). Experience in immunology is preferred but candidates with a strong background in molecular biology and biochemistry also welcome. Please forward curriculum vitae and names of three references to: Dr. Kyoko Hayakawa or Dr. Richard R. Hardy, Microbiological Associates, Inc., 701 Blackwell Road, Rockville, MD 20850. FAX: (301) 738-1036. Equal Opportunity Employer.
The Hellenic Pasteur Institute invites applications for the position of its General Director.

Candidates should submit a resume which provides qualifications and experience compatible with the scientific virtues and activities of the Hellenic Pasteur Institute, which are as follows:

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2. Research in Human and Animal Microbiology and Immunology
3. Training of Scientists in related areas
4. Production of vaccines, biologicals and therapeutic substances

Contracts are of three years duration. Applications should be forwarded to: Hellenic Pasteur Institute, 127 Av. Vas. Sophias, Athens 115 21, Greece. (tel: 301 6447959-960) Closing date: 10 May, 1994.

LEICESTER UNIVERSITY

APPOINTMENTS IN BIOLOGICAL CHEMISTRY AND BIOMOLECULAR SCIENCES
(1) Chair in Macromolecular Crystallography
(2) Senior Lectureship in Computational Chemistry
(3) Lectureship in Structural Biochemistry

The University intends to build on its existing strengths in molecular and cell biology, biological spectroscopy, bio-organic chemistry, and protein sciences with the establishment of a Macromolecular Crystallography Group in the Centre for Biomolecular Sciences. The closing date for applications for each of the above positions is 16 May 1994; but the appointment to the Chair will be made first, to enable the successful candidate to participate in the appointments to the other two posts. Further particulars may be obtained from the Staffing Office (Academic Appointments), University of Leicester, University Road, Leicester, LE1 7RH, Telephone (0533) 522422, Fax number (0533) 525140.

Informal enquiries concerning positions (1) and (3), which will be in the Department of Biochemistry, may be made to: Professor W. Y. Shaw, Telephone (0533) 525024 or Fax (0533) 523369 or Professor G. C. K. Roberts, Telephone (0533) 525534 or Fax (0533) 525526. Professor J. H. Holloway, Telephone (0533) 522106 or Fax (0533) 523789 will be pleased to answer questions concerning position (2), an appointment in the Department of Chemistry.

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University of Basel (Switzerland)
Professor of Conservation Biology (ausserordentlicher Professor)

This position is offered as part of a new program in applied aspects of ecology and conservation biology. The successful candidate should have a degree in biology and should establish a new, integrated study programme in conservation of nature, landscape and environment in close co-operation with a newly established professorship in applied aspects of geography. Candidates with a good background in plant science are preferred.

The candidate will be expected (1) to teach basic courses in environmental biology, (2) to participate in graduate teaching in biology, (3) to take part in the programs of ecological botany, (4) to launch or to participate actively and creatively in interdisciplinary research projects, (5) to establish a link to practitioners of conservation biology, and (6) to be familiar with the flora and/or fauna of Central Europe.

Preference is given to biologists with international research experience in conservation biology and with an interest in problems of protection and sustainable management of ecosystems.

In case of equal qualifications, preference will be given to female applicants. Applications with curriculum vitae, copies of three to five important publications, and a brief statement about current and future research plans should be submitted until May 20, 1994, to: Dekanat der Philosophisch-Naturwissenschaftlichen Fakultät, Klingelbergstrasse 23, CH-4056 Basel (Switzerland). Further inquiries about the position should be addressed to the chairman of the search committee, Prof. Thomas Boller (Botanisches Institut, Hebelstrasse 1, CH-4056 Basel, Telephone +41 61 261 92 34).
POSTDOCTORAL POSITIONS

Postdoctoral positions are available in the Department of Molecular Biology and Biochemistry at the University of California, Irvine. These positions are for 1 or 2 years under the sponsorship of the following faculty members: D. Asawd: biochemistry of neural functions; B. K. Burgess: biochemistry and genetics of nitrogen fixation; M. F. Cumsky: mitochondrial protein import and gene expression in yeast; R. Davut: biochemical genetics of Neurospora; E. Ehrenfeld: molecular mechanisms of replication in poliovirus and hepatitis A virus; H. Y. Fan: animal virology; H. L. Fishel: RNA viruses; G. El Gale: developmental biology, cell-cell interactions; G. A. Granger: cellular and molecular mechanisms operative in cellular survival; C. Hunkalo: eukaryotic chromosome structure and function; A. Henschel: structure-function relationships in proteins; A. A. James: molecular biology of insect vectors of infectious diseases; J. E. L. Jones: sequence organization in eukaryotic DNA, electron microscopy; R. Miledi: neurotransmitter receptors and synaptic function; M. B. O’Connor: molecular genetics of development; T. Poulos: protein X-ray crystallography and protein engineering; D. F. Senear: regulatory energetics and protein-DNA assemblies; T. Ogita: molecular biology of the prion protein; T. W. Stanley, Jr.: protein biosynthesis in eukaryotic cells; A. Tener: molecular basis of the enhancement of leukocyte function; K. K. Tewari: nuclear acids of chloroplasts and other organelles; S. Tewari: neuro-molecular biology and CNS acting drugs; L. P. Villarreal: molecular biology of small DNA viruses; E. K. Wagner: nucleic acids and molecular biology of herpervirus replication; C. A. Woolfolk: general microbiology, enzymology. We are recruiting for the 1994-95 academic year and studies should send curriculum vitae and the names and addresses of three referees to the appropriate members of the participating faculty. Deadline for applications is February 28, 1995. For further information contact or write to: The Department of Molecular Biology and Biochemistry, University of California Irvine, Irvine, CA 92717. The Department of Biology and Biochemistry encourages female and minority applicants to apply. The University of California is an Equal Opportunity/Affirmative Action Employer committed to excellence through diversity.

POSTDOCTORAL POSITION available to investigate the influence of chemical structure on the hepatic uptake and disposition of natural and synthetic retinoids. Experience in pharmacokinetic systems or drug metabolism is desirable. Send curriculum vitae, a letter of application describing research experience, and a list of three references to: Dr. Cheryl L. Zimmerman, College of Pharmacy, University of Minnesota, 308 Harvard Street, S.E., Minneapolis, MN 55455.

The University of Minnesota is an Equal Opportunity Employer and Educator.

POSTDOCTORAL POSITIONS available to work on either (i) Function and structure of the pleckton homolog (PH) domain (see Biochem. Biophys. Res. Commun. 1993;191:1161) or (ii) the involvement of neurotransmitters and their associated proteins (see J. Neurochem. 22:1039-1059, 1993). Molecular biological, biochemical and immunological expertise is helpful but all will be advantageous. Send curriculum vitae and reference letters to: Dr. Gerry Shaw, Department of Neuroscience, JHMC Box J-100244, Gainesville, Fl. 32610; E-mail: SHAWG@UFRVM.BITNET. Equal Employment Opportunity/Affirmative Action Employer.
NSF's Division of Environmental Biology (formerly Biotic Systems and Resources) is seeking qualified applicants for Program Director positions in FY 94. The incumbents to these positions will administer grant programs of research in the following areas: ecology, systematic biology, population biology and ecosystem studies. These positions will be filled on a one- or two-year visiting scientist/temporary basis and are excepted from the competitive civil service. These positions may also be filled on a permanent basis.

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. Applications are also being accepted for future vacancies for these positions.

Applicants should submit a Standard Form 171, Applications for Federal Employment, or resume to the National Science Foundation, Division of Human Resource Management Office, Suite 315, 4201 Wilson Blvd, Arlington, VA 22230. Attn: Catherine Handle. Call 703/306-1185 for further information about the NSF application process, or 703/306-1480 for technical details on these specific positions. Hearing impaired individuals should call 703/306-0990.

No person, otherwise qualified, shall be discriminated against on the basis of race, color, religion, sex, national origin, age, or disability or otherwise be excluded from being hired by NSF.

The Department of Biochemistry, Midwestern University, invites applications for a new, tenure-track Faculty position at the rank of Assistant Professor. Applicants must hold a Ph.D. degree in Biochemistry (or equivalent), have completed a postdoctoral research fellowship, and have demonstrated both ability and interest in teaching Biochemistry to health career students. The successful candidate will teach in several team-taught courses (Biochemistry, Nutrition, Genetics) for health career students (medical, pharmacy and allied health), and will develop an independent research program in Biochemistry. Interested applicants should send a cover letter summarizing their teaching experience and current research interest, and future plans; curriculum vitae; representative publications; and the names of three references. Candidates invited for interviews must also submit a teaching portfolio.

Interested applicants should send the above items to: Sandra Lee, Ph.D., Chairman, Biochemistry Department.

National Science Foundation (NSF)

\[ \text{NSF's Division of Environmental Biology (formerly Biotic Systems and Resources) is seeking qualified applicants for Program Director positions in FY 94.} \]

\[ \text{The incumbents to these positions will administer grant programs of research in the following areas: ecology, systematic biology, population biology and ecosystem studies.} \]

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Assistant Professor of Biochemistry

The Department of Biochemistry, Midwestern University, invites applications for a new, tenure-track Faculty position at the rank of Assistant Professor. Applicants must hold a Ph.D. degree in Biochemistry (or equivalent), have completed a postdoctoral research fellowship, and have demonstrated both ability and interest in teaching Biochemistry to health career students. The successful candidate will teach in several team-taught courses (Biochemistry, Nutrition, Genetics) for health career students (medical, pharmacy and allied health), and will develop an independent research program in Biochemistry. Interested applicants should send a cover letter summarizing their teaching experience and current research interest, and future plans; curriculum vitae; representative publications; and the names of three references. Candidates invited for interviews must also submit a teaching portfolio.

Interested applicants should send the above items to: Sandra Lee, Ph.D., Chairman, Biochemistry Department.

National Science Foundation (NSF)

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Responsibilities include assisting the Resource Manager by: aiding users in initiating experiments; maintaining documentation; maintaining and improving the beamlines; developing software and computing capabilities for on-site processing and analysis of diffraction data, particularly MAD experiments; scheduling beamtime usage; and processing beamtime proposals for review. There will also be some opportunities to participate in research in the areas of crystallographic structure determination or methodology development.

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The successful candidate will have the following qualifications and experience:

- PhD in the natural sciences with a minimum of 10 years post degree experience;
- Principal Investigator experience, preferably with polar field experience;
- Administrative and technical management of large multi-disciplinary science projects and programs in the public/private sector;
- Demonstrated experience in the supervision of personnel, project planning, budgeting and bottom line accountability;
- Comprehensive understanding of laboratory management and operations based on direct experience

It is desirable for the candidate to have an understanding of science computer support technology,antarctic or southern oceans research experience, and fluency in Spanish.

Antarctic Support Associates is the principle support contractor of the National Science Foundation for science and research operations in Antarctica. The headquarters of the contractor is located in Denver, CO, with principle activities in New Zealand, Chile and on the Antarctic continent. The majority of the direct support for the field science occurs during the austral summer requiring extended managerial presence in the field during this period.

Cumulative field time could total four months per year in four to six week increments.

Because this position requires deployment to Antarctica, the ability to pass strict physical and dental examinations is a contractual precondition of employment for this position. All applicants must be a U.S. Citizen.

Interested applicants should submit cover letter and qualifications to:

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ENGLEWOOD, CO 80112
ATTENTION: HR - Deputy Project Director
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The Department of Food Science and Human Nutrition at Iowa State University seeks to fill a tenure-track faculty position. Preference will be given to an individual who uses stable isotopes to investigate human nutrition problems. The selected candidate is expected to participate in the undergraduate and graduate teaching programs of the department, in outreach activities, and in research. The person in this faculty position will be Professor-in-Charge of the human metabolism unit in the Center for Designing Foods to Improve Nutrition. The metabolic unit can accommodate 25-30 ambulatory experimental subjects and is equipped with TOBEC and DEXA instruments for body composition. Unit operations are coordinated by a full-time doctoral level research scientist. A mass spectrometry facility adjacent to the metabolic unit supports a Finnigan ICP-MS, Fisons Optima GC-C-IRMS with multiple interfaces, and a Fisons Trio GC-MS with both EI and CI capabilities. The Center also has sensory evaluation, analytical and animal care facilities. A Ph.D. or M.D. with training in nutrition or related life science area is required. Evidence of ability to maintain an extramurally funded research program in human metabolism or clinical nutrition is expected, as is teaching experience. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women, minorities and members of other protected groups are encouraged to apply. Submit a letter of application, curriculum vitae, statement of research and teaching interests, and names, addresses, telephone and FAX numbers of three references to: Dr. Murray L. Kaplan, Chair of the Search Committee, Department of Food Science & Human Nutrition, 1127 Human Nutritional Sciences Building, Iowa State University, Ames, IA 50011-1062 (Tel: 515-294-9304; FAX: 515-294-6193). Screening of applicants will begin on May 2, 1994 and continue until position is filled.

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