DEADLINE:
10 a.m., 2 weeks prior to issue date. Advertising is accepted only in writing.

POLICIES: All classified ads will be edited and typset according to accepted conventions. Science publishes classified ads submitted to it.

CLASSIFICATION: Science publishes classified ads under the following headings: Positions Open, Employment Agencies, Fellowships, Situations Wanted, Courses and Conferences, Classified Announcements, and Marketplace. Advertisers should specify classification desired; however, Science reserves the right to decline to classify requests which it believes may be misleading to readers.

RATE: $41 per line, $410 minimum, per week. One line equals 52 characters and spaces; centered text. Applications for positions in science, engineering, and related fields are accepted on the basis of sex, race, religion, age, color, national origin, handicap, or sexual preference. Science reserves the right, in its sole judgment, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISEMENTS

DEADLINE: 10 a.m., 2 weeks prior to issue date.

POLICIES: All classified ads will be edited and typset according to accepted conventions. Science publishes classified ads submitted to it.

CLASSIFICATION: Science publishes classified ads under the following headings: Positions Open, Employment Agencies, Fellowships, Situations Wanted, Courses and Conferences, Classified Announcements, and Marketplace. Advertisers should specify classification desired; however, Science reserves the right to decline to classify requests which it believes may be misleading to readers.

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POSITIONS OPEN

AGRICULTURE STUDIES

Harvard College seeks a scientist trained in sustainable agriculture to design programs that develop awareness of agricultural issues. We welcome applicants in fields such as: crop research, land management and rotation, water quality, soil biology, and/or food and nutrition. An ability to help students carry out independent projects is essential. Some Third World experience preferred. One-year replacement position (possible 1-year renewal), start fall of 1990. Ph.D. required. Send a résumé, names of three references, and letter of application to: Laurie Smith, School of Natural Science, Harvard College, Amherst, MA 01002. Harvard College is an Equal Opportunity Employer. Applications from minorities are especially encouraged.

AQUATIC ECOLOGIST

The U.S. Geological Survey in Raleigh, North Carolina, seeks an aquatic ecologist participant in its study of the relationships between aquatic biota and water quality in streams and rivers. Candidates should have a Ph.D. in ecology for 1 April 1990 and education and/or experience in fisheries biology and community analyses. Salary range is $29,000 to $46,000 per year. This is a term appointment without the possibility of conversion to a permanent position. Please submit, by 1 May 1990, an SF-171 or curriculum vitae, a statement of professional interests, college transcripts, and three letters of reference. U.S. Geological Survey, P.O. Box 2857, Raleigh, NC 27602. U.S. citizenship required. U.S. Geological Survey is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

YALE UNIVERSITY SCHOOL OF MEDICINE

SECTION OF NEUROANATOMY

An assistant professor position is open for individuals with strong backgrounds in electrophysiology of sensory pathways and related mechanisms in chemoreceptors, particularly using patch recordings and cell isolation techniques. The successful candidate will be expected to engage in an ongoing multidisciplinary program as well as to develop an independent research line with independent external grant support. The candidate is also expected to teach graduate and medical students. Curriculum vitae, statement of research interests, and names of three references, should be sent before 15 April 1990 to: Chairman, Section of Neuroanatomy, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510-8026. Yale University is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR OF TOXICOLOGY

LABORATORY OF TOXICOLOGY

HARVARD SCHOOL OF PUBLIC HEALTH

The Laboratory of Toxicology is searching for a tenured professor of toxicology. Candidates or nominees should have an exceptional record of accomplishment in innovative science. They should have research interests in the molecular, genetic, or cellular mechanisms of toxicity, and complement the existing faculty whose interests include the molecular mechanisms of mutagenesis, DNA repair genes, receptor-mediated toxicity, chemical carcinogenesis and tumor promotion, cell cycle regulation, and physiological and genetic responses to oxidative stress and other DNA-damaging agents. The successful candidate will be expected to participate in graduate student teaching and mentoring, and the training of postdoctoral fellows.

Send curriculum vitae, a summary of research interests, and up to three letters of recommendation to: Professor Armen H. Tashjian, Jr., Laboratory of Toxicology Harvard School of Public Health 665 Huntington Avenue Boston, MA 02115

Harvard University is committed to increasing representation of women and minority members among its faculty and particularly encourages applications from such candidates.

POSITIONS OPEN

The Department of Chemistry at Yale University seeks applications for a position in organic chemistry at the level of Professor in the discipline of complex synthesis, synthetic methods, and/or biochemistry as they relate to biological macromolecules. An outstanding teacher-scholar's research interests should complement the current faculty. The position is expected to be filled the academic year 1990-1991.

Applications should submit curriculum vitae and a list of publications to: Professor F. E. Ziegler, Chairman, Organic and Inorganic Chemistry, Yale University, 225 Prospect Street, Box 6666, New Haven, CT 06511-8118 before 30 April 1990. Yale University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR (WILDLIFE)

Nine-month, tenure-track position to begin 30 June 1990. Ph.D. (expertise in forest wildlife management and mammalian ecology) required to teach 2½ courses per year, develop funded research, and participate in extension activities. Person with strong record of field research, association with state and federal natural resources agencies, success in university level teaching, and creativity through refereed publications. Salary commensurate with qualifications. Send letter of application, including names and addresses of three references, curriculum vitae, university transcripts, and three letters of recommendation to: Dr. Curtice Griffin, Chair, Search Committee, Department of Forest and Wildlife Management, University of Massachusetts, Amherst, MA 01003 by 6 April 1990. Telephone: 413-545-2757. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR

PROTEIN BIOPHYSICAL CHEMIST

The Department of Pharmaceutical Chemistry (pharmaceutical biophysics) at The University of Kansas solicits applications for a tenure-track position starting 1 January 1991 or 15 August 1990, if possible. Applicants should be experimental-oriented chemists who can apply modern physicochemical techniques to study protein structure. Applicants are expected to possess, or earn in the immediate future, a Ph.D. degree in pharmacetics, biochemistry, or a closely related area. Preference will be given to applicants with educational background or research experience in the pharmaceutical sciences. Applicants should have a demonstrated ability to communicate effectively, a genuine interest in teaching, and have shown exceptional research capability and potential. The faculty member will have teaching responsibilities at the undergraduate and graduate levels and will be expected to develop a strong, independent research program.

Applications should include curriculum vitae, letters from three references, and a statement of future research interests. Applications received by 15 April 1990 will receive first consideration; however, applications will be accepted until 15 August 1990 and will be reviewed monthly. Send applications to: Dr. Ronald T. Borchardt Department of Pharmaceutical Chemistry 3006 Mass Ave. The University of Kansas Lawrence, KS 66045

The University of Kansas is an Equal Opportunity/Affirmative Action Employer.
.POSITIONS OPEN

ASSISTANT PROFESSOR
CARDIOVASCULAR PHARMACOLOGY

The Department of Pharmacology and Toxicology at Michigan State University (MSU) invites applications for a tenure-track position in the ASSISTANT/ASSOCIATE PROFESSOR level for an environmental biologist. Applicants must hold a Ph.D. in either pharmacology or toxicology. Teaching responsibilities will include a course in experimental biology for juniors and seniors. Faculty members are expected to establish a research program and contribute to teaching. Applications are due on or before April 1990. The College of William and Mary invites applications for a one-year appointment to replace faculty on leave. The successful applicant will teach one course in molecular biology and another in environmental science. Research space will be provided. Applicants must include curriculum vitae and the names, addresses, and telephone numbers of three references. Complete applications should be addressed to: Eric Bradley, Department of Biology, College of William and Mary, Williamsburg, VA 23185. Review of applications will begin on 2 April 1990. The College of William and Mary is an Affirmative Action/Equal Opportunity Employer.

Clinical Biochemistry

MOLECULAR BIOLOGIST

Wanted: an M.D. or Ph.D. molecular biologist with an interest in signal transduction and/or molecular endocrinology as it applies to human disease. The successful candidate will be appointed as ASSISTANT PROFESSOR at the University of Toronto, Department of Clinical Biochemistry, and will be expected to teach, supervise graduate students, and participate in the activities of the graduate school and generate independent research funds. Send curriculum vitae and names of at least three referees to: Dr. Andrew D. Baines, Biochemist-in-Chief Department of Clinical Biochemistry The Toronto General Hospital 200 Elizabeth Street Toronto, Ontario, Canada MSG 2C4

HFA LABORATORY DIRECTOR

The Department of Pathology, University of Utah Medical Center, is seeking a full-time faculty member at the ASSISTANT OR ASSOCIATE PROFESSOR level (M.D. or Ph.D.) to establish and direct the HFA laboratory to support active programs in heart, liver, kidney, and bone marrow transplantation. Applicants should be experienced in the molecular biology of DNA rearrangements and have a strong research interest in this area. Individuals desiring to be considered for this position should submit curriculum vitae to: Carl R. Jkdberg, M.D. Professor of Pathology Department of Pathology University of Utah School of Medicine 50 North Medical Drive Salt Lake City, UT 84132

Applications will be considered through April 1990 or until a qualified candidate is identified. The University of Utah is an Equal Opportunity Employer which encourages applications from minority groups and women.

HARVARD UNIVERSITY
DEPARTMENT OF ORGANIC AND MOLECULAR EVOLUTION

The department wishes to appoint a MOLECULAR EVOLUTIONIST pursuing experimental studies on the forces and patterns of molecular evolution, including both but not restricted to: (i) studies of mutations and functional and selective constraints on DNA sequences within species; (ii) studies of general patterns of DNA sequence evolution and general constraints on these patterns (nearest neighbor corrections, codon bias, mutational patterns); (iii) evolution of gene and genome structure (genetic exchange events, evolution of intron/exon structure, duplication, gene loss, pseudogenes, etc.); (iv) evolution of entire genomes (plastid genomes, mitochondrial genomes, and their relation to the nuclear genome). This search does not cover systematic studies aimed at elucidating the evolution of particular groups. Separate appointments are being made in molecular systematics.

An appointment can be made at a tenured or non-tenured level depending upon the qualifications of the candidate.

Applications and letters from referees should be sent before 31 March 1990 to: R. C. Lewontin, Chair of Search Committee Museum of Comparative Zoology Cambridge, MA 02138

Women and minority candidates are especially encouraged to apply. Harvard is an Equal Opportunity/Affirmative Action Employer.

University of California, San Diego (UCSD). AN ASSISTANT PROFESSOR is sought with expertise in bioengineering and/or experimental biophysics. The applicant should be prepared to establish a program of independent research in areas such as tissue and cell physiology, microcirculation, biomechanics, biophysics, bioengineering, and/or biomedical mass transfer. The successful candidate will be responsible for teaching at the undergraduate and graduate levels in the bioengineering program. One of the teaching responsibilities is an undergraduate course in biotechnology. Applicants must have a Ph.D. in either biology or biochemistry. Review of applications will begin on 1 April 1990.

University of California, Los Angeles (UCLA). AN ASSISTANT PROFESSOR is sought with expertise in bioengineering and/or experimental biophysics. The applicant should be prepared to establish a program of independent research in areas such as tissue and cell physiology, microcirculation, biomechanics, biophysics, bioengineering, and/or biomedical mass transfer. The successful candidate will be responsible for teaching at the undergraduate and graduate levels in the bioengineering program. One of the teaching responsibilities is an undergraduate course in biotechnology. Applicants must have a Ph.D. in either biology or biochemistry. Review of applications will begin on 1 April 1990.

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**POSITIONS OPEN**

**BIOLOGY**

Applications are invited for a 1-year temporary position as an ASSISTANT PROFESSOR of biology. Starting August 1990 and ending April 1991. Teaching responsibilities include courses in genetics and ecology at both the junior and senior levels. Candidate must have a Ph.D. in biology, toxicology, or related fields. Send detailed curriculum vitae and names, addresses, and telephone numbers of three references to: Lawrence Fitzpatrick, Director of Personnel, Saginaw Valley State University (SVSU), University Center, MI 48710. SVSU is an Equal Opportunity/Affirmative Action Employer.

**BIOLGIST/TOXICOLOGY COORDINATOR**

A tenure-track position at the ASSISTANT PROFESSOR level will be available 1 September 1990 to coordinate a B.S. program in toxicology. Responsibilities include teaching undergraduate courses in toxicology and biology, toxicology student advisement, development of an active research program, and committee participation. Send detailed curriculum vitae and names of at least three references to: Lawrence Fitzpatrick, Director of Personnel, Saginaw Valley State University (SVSU), University Center, MI 48710. SVSU is an Equal Opportunity/Affirmative Action Employer.

**CLINICAL BIOCHEMISTRY AND BANTING AND BEST DIABETES CENTRE MOLECULAR GENETICIST**

The Department of Clinical Biochemistry and the Banting and Best Diabetes Research Centre at the University of Toronto invite applications from molecular geneticists with research interests related to diabetes. The successful candidate will be appointed as ASSISTANT PROFESSOR to join a group of independently funded investigators working on the molecular biology of diabetes. The appointment will begin on 1 September 1990. Send curriculum vitae and names of at least three references to: Dr. Andrew D. Baines, Professor and Chairman, Department of Clinical Biochemistry, 100 College Street, University of Toronto, Toronto, Ontario, Canada M5G 1L5.

**DIRECTOR
CLINICAL CYTOGENETICS LABORATORY VANDERBILT UNIVERSITY MEDICAL CENTER**

The Department of Pathology and Diagnostic Laboratories at Vanderbilt University Medical Center, Nashville, Tennessee, invite applications for director of the Clinical Cytogenetics Laboratory. Academically oriented individuals with an M.D. and/or Ph.D. degree and several years of post-doctoral experience in clinical cytogenetics are encouraged to apply. Candidates must be Board-eligible or -certified by the American Board of Cytogenetics. Primary responsibilities include supervision of the Clinical Cytogenetics Laboratory, development of an independent research program, and teaching medical students and fellows. Opportunity for collaborative research with various clinical specialties is available. Contact: Fred Gorstein, M.D., Chair, Department of Pathology, C-332 Medical Center North, Vanderbilt University Medical Center, Nashville, TN 37232.

**EG&G**

EG&G is seeking animal ecologists to participate in research investigating the effects of energy related development on the endangered San Joaquin kit fox, giant kangaroo rat, Tipton's kangaroo rat, and blunt-nosed leopard lizard at the Elk Hills Naval Petroleum Reserve, California. Four plant ecologists, one animal ecologist, one field herpetologist, and one botanist are needed to characterize impacts of Development of Future activities on endangered plants and animals and other important species on the Nevada Test Site.

The minimum requirement for an entry level position in Animal Ecology is a B.S. degree in biology, zoology, wildlife management or related field. Minimum requirements for senior level positions are a B.S. degree in one of the above disciplines plus 3-5 years experience. Senior applicants must also have demonstrated ability to design, implement and manage multidisciplinary research projects and have knowledge of environmental laws and regulations as they may apply to endangered species and environmental protection. Work location is near Bakersfield, CA.

The minimum requirements for the Plant Ecologist positions are a B.S. degree in soils, botany, biology or range management, 2 years experience working in field biology, experience in soils profile description and top soil salvaging, and experience in plant identification. The minimum requirement for the Field Herpetologist and Animal Ecologist positions are a B.S. degree in wildlife zoology or related field, plus experience in designing and implementing field studies. Work location is Las Vegas, Nevada.

The minimum requirements for an Analyst position is 2 years college classes in biology, ecology, environmental science, or natural resources. Will assist in the collection of data for interdisciplinary plant and animal studies at the Nevada Test Site and surrounding locations. Work will consist of establishing sample locations, measuring attributes of plant and animal populations and communities. This includes sampling soil, clipping vegetation, walking transects, and handling wild animals. Work location is Las Vegas, Nevada.

A pre-employment physical which includes drug and alcohol screening and a U.S. citizenship are required. An equal opportunity employer. Candidates send resumes and example of written material to:

**EG&G ENERGY MEASUREMENTS**
Santa Barbara Operations
Attn: Technical Recruiting
130 Robin Hill Road
Goleta, CA 93117

**Senior Scientist/Group Leader**

As A Member Of Our Hepatitis Research And Development Group, Your Achievements Will Always Be Recognized.

Ortho Diagnostic Systems Inc. is a member of the Johnson & Johnson Family of Companies and a world leader in the development and manufacture of medical diagnostics, reagents, immunologicals and related materials. Our ongoing efforts to provide accurate testing for a variety of serious medical conditions have created an opportunity for an individual to participate in the development of test kits for Hepatitis.

Working as a Senior Scientist/Group Leader, you will be responsible for developing immunoassays for hepatitis virus (HBV and HCV). In addition, you will establish and coordinate research collaborators with external investigators working in a variety of areas. The position will also have supervisory responsibility.

The position requires a Ph.D. in Virology, Immunology, or Biochemistry along with 3-5 years industrial experience in developing immunoassays for HBV.

We offer highly competitive salaries and the full complement of Johnson & Johnson benefits including dental plan, tuition reimbursement and our on-site total health facility, the Live For Life Wellness Center. If you see yourself contributing to the answers of the future, send your resume and salary history in confidence to: Human Resources Dept., LWMN.

*ANIMAL ECOLOGISTS ** PLANT ECOLOGISTS*
POSITIONS OPEN

ENVIRONMENTAL PLANT PHYSIOLOGIST
Academic career-track, 11-month position as an environment plant physiologist in the Department of Botany and Plant Sciences, University of California, Riverside, at the assistant or associate level, available on or after 1 July 1990. Requirements: Ph.D. in physiology or related field, with concentrations in plant physiology and environmental stress, and strong research and teaching abilities. Responsibilities include teaching courses in plant physiology and environmental stress, and developing research programs in areas of mutual interest. Send letter of application, curriculum vitae, statement of research interest, and a list of publications to: Dr. A. E. Hall, Search Committee, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521. Deadline for application is 30 April 1990. The University of California, Riverside, is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSETTANT DIRECTOR OF BLOOD BANK
The Department of Pathology, University of Utah Medical Center, invites applications for an ASSETTANT OR ASSOCIATE PROFESSOR level (M.D. or Ph.D.) with experience in bone marrow processing and storage to support a new bone marrow transplantation program. The successful applicant will have a strong research interest in hematopoietic growth factors, hematopoietic oncology, or molecular genetics of the HLA system. Individuals desiring to be considered for this position should submit curriculum vitae to: Carl R. Kjeldsberg, M.D. Professor of Pathology, Department of Pathology, University of Utah Medical Center 50 N. Medical Drive Salt Lake City, UT 84132

Florida statewide ECOLOGIST, The Nature Conservancy. Scientist needed to oversee monitoring and research programs on TNC preserves; coordinate data analysis and publish research results; act as liaison to academic, government, and business organizations. Responsibilities include: leading research groups of 5-10 people; writing research proposals; coordinating projects for a tenant tracking study. Applications should be received by 30 June 1990. Please send letter of application and three letters of reference to: The Nature Conservancy, 201 N. Orange Ave., Orlando, FL 32801.

ENTERIC NEUROBIOLOGIST
The Department of Biomedical Sciences (Division of Physiology and Pharmacology) at McMaster University invites applications for an ASSISTANT PROFESSOR position. This is a 3-year, contractually limited position commencing 1 July 1990. Applicants should have a Ph.D. or equivalent, and experience in electrophysiology of the nervous system intrinsic to the gastrointestinal tract, including patch clamp techniques on enteric nerves. Experience with electrophysiological techniques pertaining to the CNS would be a definite asset. The successful candidate will become a member of the Smooth Muscle Research Group in the Biomedical Research Institute (Dwight D. Eisenhower Research Unit) and will also be expected to participate in the undergraduate and graduate teaching programs of the university and work in concert with other faculty members. Applications, including curriculum vitae and names of three referees, should be received by 30 April 1990 by: Dr. A. A. Buchanan, Department of Biomedical Sciences, McMaster University, 1200 Main Street West, Hamilton, Ontario, L8N 3S5 Canada.

POSITIONS OPEN

CYTOTOGENETICIST. The Department of Pediatrics is seeking a Board-certified/eligible cytogeneticist to assist in the direction of a full-service clinical cytogenetics laboratory. Initial appointment at the INSTRUCTOR level. Responsibilities include the establishment of a research/clinical molecular cytogenetics section. Teaching experience and experience with molecular genetic techniques (particularly polymerase chain reaction and in situ hybridization) are required. Candidates should submit a letter of application, curriculum vitae, and the names and addresses of three references to: Dr. Kenneth Ramsay, Department of Pediatrics, CB #7220, University of North Carolina (UNC-CH), Chapel Hill, NC 27599-7220, no later than April 1990. Women and minorities are encouraged to identify themselves voluntarily. UNC-CH is an Equal Opportunity/Affirmative Action Employer.

HEAD, DEPARTMENT OF BIOLOGY
JACKSONVILLE STATE UNIVERSITY
The Department of Biology invites applications for the position of head of the Department of Biology. Candidates must hold an earned doctorate in the biological sciences, be eligible for the rank of ASSOCIATE OR FULL PROFESSOR, and have an established record as an effective scholar and teacher. Preference will be given to candidates who have demonstrated leadership ability and mentorship. Salary and fringe benefits are competitive and are commensurate with experience. Applications should be submitted by 15 April 1990. The University of North Carolina at Chapel Hill is an Equal Opportunity/Affirmative Action Employer.

EVOLUTIONARY/ECOLOGICAL GENETICIST. The Department of Biological Sciences at the University of Wisconsin-Madison is sponsoring a tenure track position. The successful applicant must have a Ph.D. and an established, externally funded research program involving natural populations. Preference will be given to those individuals investigating the genetic structure and dynamics of natural populations. Duties will include participating in the teaching of genetics, evolution, possibly limnology, and/or other senior graduate courses in the candidate's area of specialization and directing graduate students at the M.S. and Ph.D. levels. This position is available 1 July 1990; starting date is negotiable. The university intends to fill positions with ASSISTANT/ASSOCIATE PROFESSORS whenever possible. Please send curriculum vitae and the names of three referees by 15 April 1990 to: Dr. M. L. Petras, Department of Biological Sciences, University of Wisconsin, Madison, WI 53706, Phone: (608) 263-3027, FAX: (608) 262-7050. The university is committed to Equity in Employment; female candidates are especially encouraged to apply. In accordance with state and federal immigration requirements, this advertisement is directed, in the first instance, to Canadian citizens and permanent residents.

OCEAN STUDIES FACULTY
Maine Maritime Academy's recently established Department of Ocean Studies seeks the following full-time faculty to begin the fall semester, starting 1 September 1990. ASSOCIATE OR ASSOCIATE PROFESSOR to teach required and elective courses in marine and basic science field of expertise. Areas of knowledge and expertise are in the following areas: chemical, physical, biological, or geological marine science. The primary focus of the Ocean Studies Department is undergraduate teaching; however, the candidate will be expected to establish an active research program that has potential for undergraduate student involvement. Ph.D. required, and previous college teaching experience is desirable. Please send letter of inquiry, curriculum vitae, and names of three professional references to: Kenneth Quinn, Human Resources Director, Maine Maritime Academy (MMA), 702 Centre St., Keyport, ME 04420. MMA is an Equal Opportunity Employer.

POSITIONS OPEN

A four-year public institution with campuses on St. Thomas and St. Croix, U.S. Virgin Islands, is seeking full-time and part-time students, an ASSISTANT VACANCY in the Science and Math Division effective May 1990. Responsibilities include teaching several courses in biology and chemistry. Individuals with B.S. OR VISITING ASSOCIATE PROFESSOR of biochemistry (renewable) are encouraged to biochemistry and cell biology as well as an introductory chemistry course for nursing students and other courses. Salary range is $29,358 to $48,525 depending on rank and experience. To apply send letter of application, up-to-date résumé, official transcripts, and three letters of recommendation by 30 March 1990 to: Dr. William MacLean, Vice President for Academic Affairs, University of the Virgin Islands, Charlotte Amalie, St. Thomas, VI 00802. (Late applications accepted until position is filled.)

The Department of Pathology at the University of California, San Diego (UCSD), is seeking TWO FULL-TIME FACULTY in surgical pathologic/cytopathologic specialties to communicate with the qualifications and experience of the candidates. Candidates must be eligible for licensure in California and Board certification in one area of specialization. Applicants should have a Ph.D. or M.D. or M.D./Ph.D. degree with a level of appointment and current UCSD School of Medicine pay scale. Applicants should submit curriculum vitae, a list of research/teaching references, three letters of recommendation, indicating current or expected position, and names of six referees by 30 April 1990. Appointments will be made at the Assistant or Associate Professor level.

FACULTY POSITION. Available immediately. Applications are sought for an ASSISTANT PROFESSOR to join a research program in one of the following areas: molecular and cellular recognition, transduction mechanisms, regulation by cytokines, ontogenic development. Applicants must have a demonstrated ability to conduct high-quality research and have at least 3 years of experience. Curriculum vitae, bibliography, and the names of three references should be sent to: Chief, Section of Natural Immunity, Box 18, The University of Texas, M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. We are an Equal Opportunity/Affirmative Action Institution.

FACULTY POSITIONS DEPARTMENT OF MICROBIOLOGY
NEW YORK UNIVERSITY SCHOOL OF MEDICINE
The Department of Microbiology of New York University School of Medicine invites applications to fill several tenure-track positions at the ASSISTANT/ASSOCIATE PROFESSOR level within the next 2 years. We are particularly interested in attracting outstanding researchers with a Ph.D. or M.D. degree working in the fields of animal virology, oncogenes, growth factors and their receptors, and bacterial pathogenesis, but will also welcome applications from individuals interested in the molecular analysis of gene expression and function in general. Participation in the department's graduate teaching is expected. Salary is open and dependent upon experience and qualifications, and start-up funds are available.

The Department of Microbiology is located in the Medical Science Building at NYU Medical Center, and comprises at present a group of faculty with diverse research interests including the mechanism of action of cytokines and growth factors, mechanisms of microbial pathogenicity, regulation of gene expression in bacteria and animal cells, molecular genetics, etc. The department has an active graduate training program and also participates in the Kaplan Cancer Center and the Center for HIV AIDS Research. Both of these centers are interdisciplinary NIH-funded programs.

Applications should be sent to: Chairperson, Search Committee, Department of Microbiology, NYU School of Medicine, 550 First Avenue, New York, NY 10016. NYU is an Equal Opportunity Employer.
National Institutes of Health
Public Health Service
Department of Health and Human Services

The National Institutes of Health (NIH) invites nominations and applications for the position of Associate Director for Disease Prevention. This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from the ES-1 to ES-4 pay level per annum. The person selected may be eligible for Physician’s Comparability Allowance ranging $5,000 to $20,000 per year. A one year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

The Associate Director for Disease Prevention provides leadership and coordination of biomedical programs that seek to improve the Nation’s health through research, research training, and the exchange of knowledge as these activities relate to disease prevention, effects of nutrition on health and progression of disease, and medical applications of biomedical research.

For more information, contact Dr. Paul Thibault at (301) 496-6521. The following forms are required: Application for Federal Employment (SF-171) accompanied by a current curriculum vitae and bibliography. These must be submitted to:

Dr. Paul Thibault
National Institutes of Health
Office of the Director Personnel
Building 31, Room 1C-23
9000 Rockville Pike
Bethesda, Maryland 20892

Applications must be postmarked no later than April 9, 1990.

Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, sex, national origin, politics, marital status, physical handicap, age, or membership or non-membership in an employee organization.

NIH is an Equal Opportunity Employer.

ASSOCIATE EDITOR

We’re looking for a PhD biochemist/molecular biologist with a broad range of interests and research experience in one or more of the following areas: signal transduction, intracellular molecular trafficking, or structural biophysics. Requirements include at least two or three years of post-doctoral experience and publications in the refereed literature.

Science editors have varied responsibilities in manuscript selection ranging from editing for clarity to soliciting papers. Previous editorial experience is not required. This is a full-time position in our Washington offices.

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

Mr. Gregory Stokes
AAAS
1333 H Street, NW
Washington, DC 20005

EOE

DIRECTOR
PRIMATE RESEARCH INSTITUTE
NEW MEXICO STATE UNIVERSITY

New Mexico State University (NMSU) seeks qualified candidates for the position of Director. The Primate Research Institute (PRI) is located within the security of Holloman Air Force Base, close to Alamogordo in southern New Mexico. The PRI has a complete on-site laboratory complex of 100,000 square feet to support its research studies that includes 8 buildings located on a 37-acre site and supports a colony of 300 chimpanzees and 1300 rhesus monkeys.

Research is being conducted in the area of comparative and reproductive toxicology, virology, metabolism, pharmacokinetics, and reproductive biology. The PRI is a key element in the conduct of the National AIDS virus research program. Product testing in animals is also an area of primary interest to PRI and includes animal model development for biomedical research and for testing biomedical materials and devices. The affiliation with NMSU, a major land grant university, provides many opportunities for collaboration, consultation, and participation with the main campus in graduate-level teaching and research programs.

The Director is responsible to the Vice President for Research and Economic Development for all aspects of execution of the PRI program, which has a budget in excess of $10 million annually and requires management of a total staff of nearly 150 scientists, laboratory and animal technicians, and support personnel. Major duties are program planning and the identification and development of research support to include negotiation with federal agencies, foundations, and industrial organizations; program direction and oversight of the scientific efforts to assure appropriate application of new discoveries and their exploitation; resource management of personnel, facilities, and funds with complete accountability for the financial operations of PRI; administrative leadership to maintain a professional environment that promotes the NMSU policies governing affirmative action and equal employment opportunity; and scientific leadership to establish the technical program framework for research expansion and to maintain liaison with scientific peers as well as business and community leaders in furthering the interests of PRI.

The person sought for this position will lead with vision and creativity in addressing the goals of PRI and should possess the following qualities: background of successful leadership and management of a principal science and technology activity in a university, industry, or government; record of outstanding research with national recognition; demonstrated ability to secure funding for research; sensitivity to issues concerning staff and the external community; effective oral and written communication skills; and a commitment to affirmative action. Candidates for the position must have a PhD, DVM, or equivalent in one of the disciplines cited or a closely related area. Experience with primates is desirable. Salary is competitive and commensurate with qualifications and experience.

Send letter of application, including vita and a brief statement of interest, and have three letters of reference forwarded to:

Dr. Robert E. Welgie
Chair, PRI Director Search Committee
New Mexico State University
Box 30002
Las Cruces, NM 88003

Applications must be postmarked no later than April 16, 1990.

NMSU is an equal employment opportunity/affirmative action employer. Minorities and women are encouraged to apply.
FACULTY POSITION in the Biology Division of the California Institute of Technology (Caltech).

Caltech seeks a new faculty member in the Biology Division with research interests in biotechnology and its application to current biological problems. Research programs might include the development and application of new theoretical treatments, techniques, or instruments to the study of molecular, chromosome organization, genetic structure, genetic information, or genome evolution. The appointment may be at the ASSOCIATE, ASSISTANT, or TENT PROFESSOR rank, depending on experience. The appointment will be for 4 years and will be either tenured-track or tenured, depending on experience. Send curriculum vitae and names and addresses of three references to:

Barbara Wold, Chair, Biotechnology Search Committee, Biology Division, California Institute of Technology, Pasadena, CA 91125. Caltech is an Equal Opportunity Employer and welcomes applications from minorities and women.

FACULTY POSITION IN MOLECULAR BIOLOGY. The Department of Biochemistry and Molecular Biology at the University of South Florida (USF) College of Medicine invites applications for a tenure-track position in MOLECULAR BIOLOGY. The position is at the ASSOCIATE PROFESSOR level in a tenure-track position. Candidates meeting the above requirements, having attained professional accomplishments in research and writing, and demonstrated effectiveness in teaching and academic advising will be considered at the ASSOCIATE PROFESSOR level with tenure. Those candidates having a national reputation in research and a demonstrated effectiveness in teaching and academic advising will be considered at the PROFESSOR level with tenure. Recruiting deadline is 1 May 1990. Contact: Bruce A. Work, Jr., M.D., Professor and Head, Box 395 UMCUSC, University of Southern California, 420 Delaware Street S.E., Minneapolis, MN 55445. The University of Minnesota is an Equal Opportunity Educator and Employer, and specifically invites and encourages applications from women and minorities.

DEPARTMENT OF ENTOMOLOGY
UNIVERSITY OF ARIZONA
FACULTY POSITION
TOXICOLOGIST

A Ph.D. in entomology, toxicology, or related science is required. The successful candidate will have a proven research record and teaching experience. We are seeking highly qualified applicants in any area of toxicology including molecular biology of resistance, neurotoxicology, insect-pathogenic fungi, parasitology, environmental biology, and effects of chemicals on biodiversity. The incumbent will be expected to develop a graduate course in toxicology and an upper division course with at least 50 insect research laboratories associated with the Center for Insect Science. ASSOCIATE PROFESSOR level is sought but the more senior level will be considered. Deadline is 15 April 1990 or until filled. Submit curriculum vitae and statement of research interests, publications, and addresses and telephone or FAX to:

Dr. E. L. Atkinson, Chair, Faculty Search Committee, Department of Entomology, Tucson, AZ 85721. Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

FACULTY POSITION, ENVIRONMENTAL BIOCHEMISTRY/BIOLOGY

Department of Soil and Water Science, University of Arizona. Tenure-track appointment, ASSISTANT PROFESSOR, available 1 September 1990. Ph.D. in soil science, biochemistry, or related field required. Research and teaching in sub-surface biochemistry, microbiology with emphasis on biodegradation and biotransformation of inorganic and organic compounds. Postdoctoral experience preferred. Closing date: 15 May 1990 or until a suitable candidate is found. Letters of application, transcripts, resume, and four letters of recommendation to:

Dr. J. L. Pepper, Chairman Search Committee, Department of Soil and Water Science, 429 Shanks Building, University of Arizona, Tucson, AZ 85721. An Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

IMMUNOLOGY. Lehigh University invites applications for a tenure-track faculty position in immunology, to complement our strengths in molecular/cell biology. Rank open. The successful candidate will maintain an extramurally funded research program, guide Ph.D. students, and participate in undergraduate teaching. Our programs are supported by a predoctoral training grant from NIH and an undergraduate education grant from the Howard Hughes Medical Institute. Starting date flexible. Send statement of research interests, curriculum vitae, and three letters of reference to: Dr. Steven Krawiec, Search Committee, Department of Biology 31, Lehigh University, Bethlehem, PA 18015. An Affirmative Action/Equal Opportunity Employer.

MOLECULAR AND DEVELOPMENTAL NEUROBIOLOGY CENTER FOR MOLECULAR MEDICINE YALE UNIVERSITY SCHOOL OF MEDICINE

The Yale University School of Medicine is seeking applicants at the level of ASSOCIATE, ASSISTANT, AND FULL PROFESSORS for the Molecular and Developmental Neurobiology Program in the newly created Yale Center for Molecular Medicine. Research in the program will focus on various aspects of neurobiology, with potential applications to human diseases. Any area of neurobiology at the molecular or genetic levels will be considered. Researchers working with either vertebrate or invertebrate model systems are encouraged to apply. M.D. or Ph.D. appointees will hold regular faculty positions in one of the existing departments of the School of Medicine. Salary and partial research support will be provided. Curriculum vitae should be submitted by 30 April 1990 to:

Dr. Spyros Artavanis-Tsakonas, Chair
Search Committee for the
Yale Center for Molecular Medicine
Yale University School of Medicine
Box 3333
New Haven, CT 06510

Yale University is an Equal Opportunity/Affirmative Action Employer.

MARINE BOTANY SCRIPPS INSTITUTION OF OCEANOGRAPHY

Applications are invited for an ASSISTANT PROFESSOR (TENURE-TRACK), ASSOCIATE OR FULL PROFESSOR (TENURED) position in marine botany. The level of appointment and salary (University of California salary scale) will be commensurate with the successful candidate's qualifications and experience. At the time of the appointment, the successful candidate must hold a Ph.D. degree in a biological science, and must have demonstrated excellence in independent research. Associate or full level candidates must show evidence of a strong research record; assistant level candidates will be expected to show evidence of their potential through publication records appropriate for their level of experience and highly positive letters of recommendation.

The primary qualification for this position is a research specialization which focuses on marine algae or marine vascular plants. Candidates working at all levels of biological organization will be considered for this position. Candidates are expected to conduct an active research program supported by extramural grants, and to be involved in the teaching and supervision of graduate students. Teaching requirements include presenting a comprehensive course in marine botany.

Candidates should include with their letter of application a brief synopsis of their research interests, a summary of teaching experience, a list of publications, and the names of four to six references. Please send applications to:

Chairman, Marine Botany Search
SIO Graduate Department, A-008
Scripps Institution of Oceanography
University of California, San Diego
La Jolla, CA 92038

Applications must be received by 1 July 1990 to be considered.

An Equal Opportunity/Affirmative Action Employer.

16 MARCH 1990

At Glaxo Inc. in Research Triangle Park, N.C. our unparalleled growth in the U.S. prescription pharmaceutical sector has served to rigorously intensify our research and development activities. Underway is a 10-building Research and Development complex that will rival any in the industry. With completion targeted for 1991, this 1.5 million square-foot research center will house our many promising development programs for established products, current basic research programs and significant additional programs for the exploration and discovery of new therapeutic agents.

At the threshold of an era of new dimensions in pharmaceutical research, we invite you to share the challenge of the tasks and sense of fulfillment that lies ahead. Join our Research and Development Team in one of these exciting positions:

RESEARCH INVESTIGATOR
Cellular and Molecular Pharmacology

This Ph.D. Senior Scientist position will participate in a multidisciplinary research program focused on cardiovascular therapy. Additionally, candidate will provide creative and innovative research expertise in receptor biology.

Background must include a Ph.D. in Biochemistry, Cell Biology or Pharmacology with 2+ years of relevant post-doctoral experience. Previous training and experience in the fields of biochemical, pharmacological and/or molecular characterization of cardiac/muscle receptors is desired.

Respond to Job #9110B006 on all resumes.

ELECTROPHYSIOLOGIST

This key position, within our Pharmacology Department, will conduct and direct independent studies on complex cardiovascular questions.

Background should include a Ph.D. and at least one year of postdoctoral experience. Previous electrophysiological experience with vascular or cardiac tissues is required.

Direct experience in patch clamping, artificial bilayers, fluorescent dye measurements or in vitro channel expression is desirable.

Respond to Job #9110B003 on all resumes.

POSTDOCTORAL FELLOW
Pharmacology

To study transduction mechanisms including G-protein, phospholipase C interactions. Expertise in cell biology and biochemistry required.

Respond to Job #PD-CF on all resumes.

Research Triangle Park, North Carolina offers opportunities for people who seek a well-rounded, comfortable lifestyle. This world-famous scientific/industrial/academic community near Raleigh, Durham and Chapel Hill affords access to respected universities, beautiful, reasonably priced residential areas, major retail centers, excellent health care and abundant cultural and recreational facilities. And people like you.

Join us and enjoy excellent pay, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Send your resume, INDICATING THE CORRESPONDING JOB # and salary history to: Human Resources Department, Glaxo Inc., P.O. Box 13398, Research Triangle Park, N.C. 27709. (No phone calls or agency referrals, please). An Equal Opportunity Employer M/F/H/V.
MOLECULAR ENDOCRINOLOGY POST-DOCTORAL AND JUNIOR FACULTY POSITIONS. The Division of Endocrinology, Department of Medicine, of the University of Miami School of Medicine is currently recruiting for postdoctoral fellows. Applicants must hold an M.D. or Ph.D. degree and have prior experience in molecular biology and interested in working on molecular biology of bone cells or gene expression of peptide hormones and growth factors. Send curriculum vitae and a statement of research interests and salary expectation to: Dr. Gary A. Cidlowski, Division of Endocrinology/Department of Medicine, University of Miami School of Medicine, P.O. Box 016960 (D-503), Miami, FL 33101. An Equal Opportunity/Affirmative Action Employer.

UNIVERSITY OF MANITOBA DEPARTMENT OF PHYSIOLOGY CARDIOVASCULAR SCIENCES

The Department of Physiology, Faculty of Medicine, University of Manitoba invites applications for a continuing faculty position at the level of ASSISTANT PROFESSOR in the Division of Cardiovascular Sciences. Applicants should have M.D. or Ph.D. degree in any of the medical sciences and have up to 3 years of postdoctoral or equivalent experience in cardiovascular biology. Candidates are expected to establish independent research programs in the area of cardiovascular molecular biology and teach both medical and graduate students. To submit your CV, letter of application, and three professional references contact: Dr. Ronald J. Newton, Chair Search Committee, Department of Forest Service, Texas A&M University, College Station, TX 77843-2135.

NEUROPHYSIOLOGIST/ NEUROPHARMACOLOGIST

Electrophysiologist to study cellular basis of neuro-transmitter interaction and the control of cerebral cortical function in multidisciplinary neuroscience laboratory. POSTDOCTORAL/INSTRUCTOR levels. Applicants should possess a Ph.D. or M.D., with experience in electrophysiology or pharmacology. Starter salary for Board-certified or equivalent, academically dedicated neurophysiologist. Duties include teaching of medical and graduate students, diagnostic neurophysiology, and productive research, e.g., investigations of Alzheimer's and related neurodegenerative disorders, neurooncology, psychopharmacology, or related fields. Interested applicants should submit current curriculum vitae and names of three references to: Dr. M. J. Ball, Neuropathology, Oregon Health Sciences University, 1133 3181 SW Sam Jackson Park Road, Portland, OR 97201-3098. OHSU is an Affirmative Action/EQUAL Opportunity Employer.

PLANT BIOTECHNOLOGY

A leading vegetable seed company has openings for a SCIENTIST (postdoc level) and RESEARCH ASSISTANTS (M.S./B.S. level). Experience in plant tissue culture and gene transfer required. Competitive salary and benefit package. Send resume, three references, and transcripts to: Route 4, Box 1255, Woodland, CA 95699, Attention: Brett Sanders, Job #101, Equal Opportunity Employer.

COMPARATIVE PHYSIOLOGIST

Bradley University, Department of Biology, invites applications for a tenure-track appointment at the ASSISTANT PROFESSOR level. The starting date is 2003. Candidates should be able to teach graduate and undergraduate courses in comparative physiology, pathophysiology, and graduate human physiology and participating in introductory courses. Teaching load typically includes three courses per semester plus a research program involving undergraduate and master's students. A Ph.D. is required and postdoctoral experience is desired. Screening of applicants will begin 9 April 1990 and will continue until position filled. Candidate is expected to: Dr. John A. DePinto, Chair, Department of Biology, Bradley University, Peoria, IL 61625, Affirmative Action/EQUAL Opportunity Employer. Minorities and women are encouraged to apply.

PROKARYOTIC GENETICS

The Department of Biology at Texas A&M University invites applications for a tenure-track position in bacterial or bacteriophage genetics and molecular biology. Candidates should be using a prokaryotic organism to study fundamental biological problems. Special consideration will be given to applicants interested in developmental, regulatory, or membrane systems. Essential qualifications include a strong record of research accomplishment, the ability to design a research program, and a commitment to training undergraduate and graduate students. Please send curriculum vitae, a statement of research interests, and three letters of recommendation to: Dr. Michael D. Manson, Chairman, Microbiology Search, Department of Biology, Texas A&M University, Box 117783, College Station, TX 77842. Telephone: 1-800-TAM-BIOL. FAX: 409-845-2891. An Affirmative Action/EQUAL Opportunity employer.

MOLECULAR PARASITOLOGY. POSTDOCTORAL POSITION available for research on regulation of muscle gene expression in trichinosis. Research is on mechanisms that control altered muscle gene expression in infected muscle cells and identification of parasite factors that may be involved. Applicants with interests in host-parasite interactions and experience in molecular biology are preferred. Send resume and names of three references to: Douglas P. Jasmer, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040. Coordinator (NIH) restricts employees to citizens, or nationals of the United States of America, with the exception of persons resident at time of appointment. Washington State University is an Equal Opportunity/Affirmative Action Educator and Employee. Protected group members are encouraged to apply.

Center for Coastal Studies, Scripps Institution of Oceanography (SIO), has ONR funding for a 3 year position: POSTDOCTORAL RESEARCH STAFF, with emphasis on sediment dynamics. Ph.D. in a physical science is required; however, direct experience in the field is not required. Salary: $33,000 per year. Send curriculum vitae and names of three references to: Dr. J. A. Nichols, SIO Mail Code A-09, La Jolla, CA 92038. Closing date: 1 May 1990. Affirmative Action/EQUAL Opportunity Employer.
POSTDOCTORAL OPENINGS

Two POSTDOCTORAL OPENINGS available, one immediately, the other September 1990, for Monte Carlo and molecular dynamics studies of fluids in micro- pores. Background in computational physics or chemistry required. Initial appointment for a year at $22,000; possibility of renewal for up to 2 years. Send curriculum vitae and names of three references to: D. Dieltiens, Department of Chemistry, Purdue University, West Lafayette, IN 47907. Purdue is an Equal Opportunity/Affirmative Action University.

POSTDOCTORAL POSITION

For recent Ph.D. to study the molecular characterization and regulation of prohormones in the biosynthesis of enkephalin and tachykinin peptide neurotransmitters. This project involves in vitro expression of prohormone cDNA's, culture of primary cells, two-dimensional electrophoresis and microsequencing, and production of enzyme and antibody probes. Experience in protein/peptide chemistry and molecular biology is required. Send curriculum vitae and three references to: Dr. Vivian Hook, Department of Biochemistry, Uniformed Services University of the Health Sciences, Bethesda, MD 20814.

POSTDOCTORAL POSITION

POSTDOCTORAL POSITION in CELLULAR ENDOCRINOLOGY

POSTDOCTORAL POSITION available immediately to study the mechanistic basis of heterogeneous protein hormone secretion by individual endocrine cells in culture. The project involves a novel assay (reverse hemolytic plaque assay) in combination with molecular approaches. Experience in endocrinology or molecular biology preferred. Send curriculum vitae and three references to: Dr. Michael J. Taylor, Department of Veterinary Physiology and Pharmacology, College of Veterinary Medicine, Iowa State University, Ames, IA 50011.

A POSTDOCTORAL POSITION is available on a joint Forest Service/Ecosystems Center project in Woods Hole, Massachusetts. The project, "Intermodel Comparisons of Ecological Response to Climate Change," is developing two global ecosystems models under altered climate, with and without human disturbance. We seek a candidate with a strong background in ecosystem ecology and some modeling experience for a 1-year appointment at the GS-11 grade, salary: $29,891. Individuals should send a résumé, Form SF-171 Application for Federal Employment, and college transcripts to: Dr. Linda Joyce, Rocky Mountain Forest and Range Experiment Station, 3825 East Mulberry, Fort Collins, CO 80524.

U.S. Department of Agriculture, Agricultural Research Service, Biomass Research and Bioprocessing Unit, 2201 Constitution Avenue, Washington, DC 20250. The incumbent will construct gene probes for peptides that are biologically active in insects and use these probes for analysis of the distribution of mRNA for the peptides in livestock insects. Ph.D. obtained in the last 3 years is desired. Contact: Dr. Andrew Chen, USDA/ARS, VTERL, Route 5, Box 810, College Station, TX 77840 or telephone: 409-260-9400. Applications in response to this advertisement should be marked S-003. USDA is an Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

POSTDOCTORAL POSITIONS in NEUROSCIENCE

Two postdoctoral positions are available in the area of molecular and cellular mechanisms underlying synaptic plasticity and the role of cortical Synaptotagmin in vesicle docking. Applicants should have a strong background in Neuroscience and prior experience in synaptic physiology is highly desirable. Send curriculum vitae and three references to: Dr. J. Martinsey, Department of Neurology, Massachusetts General Hospital, 55 Fruit Street, Boston, MA 02114. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in IMMUNODEVELOPMENT

POSTDOCTORAL POSITIONS available immediately in immunology and experimental pathology. Applicants should have a strong background in molecular and cellular biology, with experience in the areas of immune regulation. Please send curriculum vitae and three references to: Dr. R. Martin, Department of Microbiology, Boston University School of Medicine, Boston, MA 02118. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in IMMUNOBIOCHEMISTRY

POSTDOCTORAL POSITION in IMMUNOBIOCHEMISTRY

POSTDOCTORAL POSITION available immediately to study the mechanism of the role of disulfide bonds in immunoglobulin heavy chain folding. Send curriculum vitae and three references to: Dr. R. Martin, Department of Microbiology, Boston University School of Medicine, Boston, MA 02118. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS in IMMUNODEVELOPMENT

POSTDOCTORAL POSTION available for a new program of research in the area of signal transduction in cells, with emphasis on G protein-linked receptors. Positions available immediately. Send curriculum vitae and three references to: Dr. David Engleman, Department of Medicine, Brigham & Women's Hospital, Harvard Medical School, 75 Francis Street, Boston, MA 02115. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS in IMMUNOBIOCHEMISTRY

POSTDOCTORAL POSITION available immediately in immunology and experimental pathology. Applicants should have a strong background in molecular and cellular biology, with experience in the areas of immune regulation. Please send curriculum vitae and three references to: Dr. R. Martin, Department of Microbiology, Boston University School of Medicine, Boston, MA 02118. An Affirmative Action/Equal Opportunity Employer.

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**POSITIONS OPEN**

RESEARCH ASSISTANT. Dalton Research Center, University of Missouri–Columbia is recruiting for a research assistant to manage a multiuser chromatography laboratory. Will include maintenance of multiple HPLC systems and development of HPLC methods for analytical and preparative applications; will train staff in theory and use of HPLC. Must have minimum of B.S. degree in chemistry or biology and expertise with biological and chemical laboratory equipment and procedures. Knowledge of principles and practice of analytical biochemistry and quantitative analytical chemistry is essential. Send résumé and three references to: Dr. Michael Rovetto, NE407 Physiology, Medical Science Building, Columbia, MO 65211. The University of Missouri is an Equal Opportunity and Affirmative Action Employer.

RESEARCH ASSOCIATE for west central Ohio education and research facility to conduct research in analytical chemistry. Development of new chromatography columns and detectors (electrochemical). No experience required in above duties but applicants will qualify with a Ph.D. in analytical chemistry, all but dissertation acceptable, in addition to an M.S. in analytical chemistry and at least one publication in the field of electrochemistry, and 1 year of experience in research in the area of electrochemistry. Must have taken as part of Ph.D. (ABD) program at least three credit hours in each of electroanalytical chemistry, interpretation of spectra, chemical separations, and analytical spectroscopy. Forty hours per week, 10 a.m. to 5 p.m., $2000 per month. Must have proof of legal authority to work permanently in the United States. Qualified applicants send résumé (no calls) to: C. Bussard, JO#1131661, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

**UNIVERSITY OF TORONTO CENTRE FOR RESEARCH IN NEURODEGENERATIVE DISEASES**

Applications are invited for a position in RESEARCH into the etiology and mechanisms of amyotrophic lateral sclerosis (motor neuron) disease. Applicants must have a Ph.D. or M.D. and have a strong background in molecular biology, molecular genetics, and gene regulation. Start-up funds will be provided. Successful candidates must initiate independent and original research programs. The Centre is located in the core of the university hospital complex in close proximity to more than 150 neuroscientists. Send curriculum vitae and names of references to: Dr. D. R. McLachlan, Centre for Research in Neurodegenerative Diseases, University of Toronto, Room 3318, Medical Sciences Building, 1 King's College Circle, Toronto, Ontario M5S 1A8. Application deadline: 30 April 1990.

The University of Toronto encourages both men and women to apply for positions. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

**RESEARCH/CERAMIC ENGINEER.** Participate in the research and design of new and existing ceramic products for manufacturer of specialty refractories catering to the iron, steel, and nonferrous metals industries. Formulate a bulk composition with thermochemical and mechanical properties for high-temperature ceramics. Form shapes and utilize high-temperature treatments to obtain ceramic bonding. Conduct physical property tests including compressive and transverse stress tests, creep, static, resistance tests, and other thermal analytical methods. Characterize composition and microstructure by using x-ray diffraction, optical and scanning electron microscopy. Minimum requirements: M.S. degree in ceramic or materials engineering and completed one course in each of the following: (i) scanning electron microscopy; (ii) advanced thermal chemical equilibrium; (iii) crystal structure analysis; (iv) interpretation of solid-state metallography; and (v) rock forming and silicate minerals. Must also have completed one major project in thermal expansion. Must have 1 year of experience in position offered or as a graduate research assistant. Experience as a graduate research assistant must include a research project on thermal shock resistance. Forty hours per week, 8:00 a.m. to 5:00 p.m., $34,000 per year. Submit résumé to: Illinois Department of Employment Security, 401 South State Street–3 South, Chicago, IL 60605. Attention: L. Donegan, Reference #1087-D. An equal opportunity/affirmative action employer.

16 MARCH 1990

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**Molecular Biology Research**

CIBA-GEIGY's Pharmaceuticals Division is consistently at the forefront of scientific research. The recent expansion of our efforts in molecular biology within the drug discovery process has created exciting opportunities for Senior and Associate Scientists.

**Senior Scientist**

Will be responsible for the innovative use of molecular biology in drug discovery programs in inflammation and cardiovascular diseases. Preferred areas of interest include:

- Molecular biology of receptors or adhesion molecules
- Regulation of eukaryotic gene expression

Candidate should have a PhD in Molecular Biology, Biochemistry or related areas. Postdoctoral experience is required.

**Associate Scientist**

Will participate in molecular biology research in our drug discovery programs. The successful candidate will have an MS or BS in Biology or Molecular Biology. Experience in recombinant DNA methodology, such as gene cloning and expression and DNA sequence analysis is required.

CIBA-GEIGY offers competitive salaries, excellent benefits, superb research facilities and opportunity for substantial professional growth. Please send your resume, including salary requirements, to: Dr. R. K. 556 Morris Avenue, Summit, New Jersey 07901. We Are An Equal Opportunity Employer M/F/H/V.

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**CIBA-GEIGY**

**Research Associate**

**Help Bring Products To Market**

**That Will Benefit Society**

We're the R.W. Johnson Pharmaceutical Research Institute (PRI), a dynamic new research and development organization within The Johnson & Johnson Family of Companies. We have the strength and backing to meet the challenges of today's competitive research environment, and establish PRI as one of the world's leading pharmaceutical R&D companies.

We have an immediate opening within our Microbiology Department for a candidate with a BS/MS or equivalent in Microbiology, Biochemistry or related field. To qualify, a knowledge of microbial physiology or biochemistry, an understanding of the pathogenesis of infectious diseases, or experience in drug discovery of antimicrobial agents is required. Some industrial experience involving purification of macro-molecules, use of FPLC, molecular biology techniques, or screen development is desired.

The successful candidate will conduct experiments with bacterial and fungal in vitro test systems towards the discovery of novel therapeutic agents.

We offer a competitive salary and the comprehensive benefits you would expect from a Johnson & Johnson Company. Please send resume, including salary requirements, to: G. Scott-Higgins, Dept. 8, R.W. Johnson Pharmaceutical Research Institute, P.O. Box 300, Raritan, New Jersey 08869-0002.

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**R.W. JOHNSON**

**PHARMACEUTICAL RESEARCH INSTITUTE**
We offer a stimulating scientific environment, state-of-the-art facilities, and benefits that are competitive and flexible. Our eminently attractive work/life benefits and excellent compensation. Our career opportunities in biotechnology are available to biologists with an interest in fundamental research and growth. The new research scientist, working with a highly skilled team of researchers, will be expected to contribute to ongoing projects in the fields of bone biology and wound healing.

The candidate will be expected to contribute to ongoing projects in the fields of bone biology and wound healing. The successful candidate will be responsible for designing and conducting experiments to study the role of bone and tissue growth factors in the remodeling process. The candidate will also be expected to participate in the development of novel therapeutic strategies for the treatment of osteoporosis and related disorders.

Requirements:
- Ph.D. in molecular biology or related field
- Excellent written and oral communication skills
- Experience in cell and molecular biology
- Strong background in research design and data analysis

Salary: Competitive, commensurate with experience.

Send your CV and a brief summary of your research interests to:

Cetus Corporation
89239/RI
Seattle, WA 98105

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Cetus Corporation is an equal opportunity employer.

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**Research Assistant**

Cetus Corporation, leading pharmaceutical company, is currently seeking a Research Assistant to conduct research in the cardiovascular area. Requirements include a B.S. in science, preferably with a major in biology. Applicants should have experience in research and be familiar with standard biochemical techniques.

Salary: Competitive, commensurate with experience.

Send your resume to:

Cetus Corporation
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Seattle, WA 98105

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**Associate Biotechnology Research**

Cetus Corporation is currently seeking an Associate Biotechnology Research Scientist for an exciting opportunity in the field of biotechnology. Requirements include a B.S. in science, preferably with a major in biology. Applicants should have experience in research and be familiar with standard biochemical techniques.

Salary: Competitive, commensurate with experience.

Send your resume to:

Cetus Corporation
89239/RI
Seattle, WA 98105

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**Postdoctoral Position**

A three-year postdoctoral position is available for a U.S. citizen or permanent resident to join ongoing research on the expression of repeat sequence nucleic acids and their role in eukaryotic gene expression. Applicants should have some experience in molecular biology and an interest in eukaryotic cell biology and growth. Salary will be commensurate with education and experience. Applicants with full CV and the names of three references should be addressed to:

Richard J. Marla M.D.
Human Genetics Branch,
National Institute of Child Health and Human Development
National Institutes of Health
Building 10, Room 9S222
9001 Rockville Pike
Bethesda, Maryland 20892

NIH is an Equal Opportunity Employer.
The National Institute of Mental Health's expanding commitment to basic neuroscience and behavioral science research has created openings for a number of important positions in the Division of Basic Brain and Behavioral Sciences. The Division seeks applications from experienced and talented scientists to fill vacancies at the branch and program level in seven major multidisciplinary branches. Vacancies exist within the following divisional structure as indicated by asterisks (*):

- **Basic Behavioral and Cognitive Sciences Research Branch***
  - Basic Behavioral Processes Program*
  - Cognition, Learning and Memory Program
  - Theoretical and Computational Psychology Program*

- **Basic Prevention and Behavioral Medicine Research Branch**
  - Behavioral Medicine Program
  - Populations at Risk Program
  - Prevention and Behavior Change Program*

- **Cognitive and Behavioral Neuroscience Research Branch***
  - Behavioral Neuroscience Program
  - Cognitive Neuroscience Program*
  - Theoretical Neuroscience Program*

- **Molecular and Cellular Neuroscience Research Branch***
  - Developmental Neuroscience Program*
  - Neurogenetics Program*
  - Neuroimmunology/Neurovirology Program*
  - Neurotransmitter/Neuroregulation Program

- **Neuroimaging and Applied Neuroscience Research Branch***
  - Neural Systems Program*
  - Neuroimaging Program*
  - Neuroscience Centers Program

- **Personality and Social Processes Research Branch***
  - Interpersonal and Family Processes Program*
  - Personality and Emotions Program
  - Sociocultural and Environmental Processes Program*

- **Psychopharmacology Research Branch**
  - Behavioral Pharmacology Program
  - Neuropsychopharmacology Program*
  - Psychotherapeutic Drug Development Program*

Branch Chiefs are responsible for leading the national research effort in a particular multidisciplinary branch. The annual budget for each branch ranges from $10-$21 million with a staff of 6-8 people each. Branch Chiefs plan, develop, coordinate, and fund national and international programs of support for research and training in the substantive area. Since the research scope crosses a number of scientific disciplines, Branch Chiefs must have broad administrative and supervisory experience in the administration of biomedical and/or behavioral research. Applicants must possess significant research experience, good oral and written communication skills and a recognized interest in and a capacity for extramural science management. Minimum qualifications include a M.D., Ph.D., or equivalent training in one of the following disciplines: biology, health sciences, neuroscience, pharmacology, psychology, psychiatry, genetics, immunology, virology, or in an academic field related to the mental health sciences pertinent to the work of the position. The grade of Branch Chief positions is at the GM-15 level, with a salary range from $59,216 to $78,200 per annum.

Program level positions have responsibility for planning, developing and administering a specific substantive program of support. Program heads are recognized authorities in their field and analyze current research activities; identify extramural research areas of underdevelopment; and stimulate the submission of grant applications in the program's field of emphasis. Applicants must possess a M.D. or Ph.D. degree, or equivalent training, as above. In addition, must have good oral and written communication skills, and have an interest in science management. 3 years of postdoctoral experience is desirable. The grades of these positions are at the GS-13/14 level, with a salary range from $42,601 to $72,954 per annum.

Medical Officers may be eligible for an additional physicians comparability allowance (PCA) of $8,000 to $20,000 per annum for the GM-15 positions and $5,000 to $10,000 for the GS-13/14 positions.

Benefits include a retirement plan, health and life insurance, sick and annual leave. Relocation expenses may be paid. Duty station is Rockville, MD. United States citizenship is required.

Vacancies will be filled through the Civil Service or an appointment in the Commissioned Corps of the U.S. Public Health Service. Applications from women and minority group members are encouraged. Interested applicants should submit an SF-171 (Application for Federal Employment) accompanied by a current curriculum vitae and bibliography. Applications for this announcement will be accepted until December, 1990. Submit applications to: Ms. Louise Turner, Personnel Operations, NIMH, Room 15C12, 5600 Fishers Lane, Rockville, Maryland 20857, or call (301) 443-5407.

**ADAMHA IS AN EQUAL OPPORTUNITY EMPLOYER**
RESEARCH ASSOCIATE. Research in muscle anatomy, histology, histochemistry, immunocytochemistry, quantitative EM, mechanics, and SDS-PAGE; write publications and grant proposals. Requirements: Ph.D. in animal sciences or biochemistry. 3 years of postdoctoral experience; 30 hours per week; $17,000 per year. Submit résumé or curriculum vitae to: Philadelphia Office, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123. Job order No. 4304913.

ASSOCIATE SCIENTIST. Forty hours per week, 8:30 a.m. to 5:00 p.m., $39,000 per year. Design and commissioning of high-performance data acquisition systems for epidermal antennas using arrays of filling bar ends and fixed target experiments. This includes evaluation of RISC architecture computers and work stations based on such architecture for on-line trigger systems; research on the use of VME-based RISC and purpose built parallel processing computers for data gathering and control of a LEVEL3 trigger system with the UNIX operating system; conducting feasibility studies for upgrading the currently envisioned LEVEL3 trigger system for future high luminosity experimentation. Ph.D. in physics as well as 2 years of experience as an associate scientist or as a postdoctoral researcher required. Previous direct or related experience must include evaluation of a LEVEL3 trigger system in high-energy physics particle collider experimentation as evidenced by publication of one or more papers on data analysis. Pay is $30,000 plus. Send resumes to: Illinois Department of Employment Security, 401 South State Street, Suite 350, Chicago, IL 60605. Attention: Connie M. Evans, Reference #VI-1002-E. An employer-paid ad.

SENIOR RESEARCH TECHNOLOGIST. Research for a lignocellulosic fuel project. Ph.D. in biochemistry, or molecular biology, or 10 years of experience in the field. Pay is $36,000 plus. Send resumes to: Jake Hiltzhan, 1295 Poplar Avenue, Memphis, TN 38104. Affirmative Action/Equal Opportunity Employer.

SENIOR SCIENTIST I. Responsible for the development, testing, and implementation of a battery of soil tests that could be used for primary herbicide detection, and for monitoring important parameters, including adsorption (binding), mobility, and persistence of herbicides in soil. Requires Ph.D. in weed science. Also requires knowledge of the following subjects/processes: adsorption-desorption; mobility and persistence of herbicides in soil; advanced techniques, such as spectrophotometry, chromatography, and radioactivity methodology; and use of computers to run simulation models for herbicide fate and effects. Salary: $33,100 per year. Entry-level position. Job and interview site: Gilroy, California. Send this ad with résumé to: Job # BLW 13045, Box 9560, Sacramento, CA 95823-0560 not later than 7 April 1990.

SENIOR SCIENTIST/SENIOR ANALYTICAL CHEMIST. Research complex carbohydrate related to cancer. Coordinate development of new analytical methods for oligosaccharides with ongoing research employing mass spectrometry, capillary zone electrophoresis, enzyme-linked immunosorbent assays, thin-layer chromatography immuno- staining, and complex carbohydrate synthesis. Supervise research associates and Ph.D. students. Requires Ph.D. in biochemistry and 5 years of experience as senior scientist/senior analytical chemist or 5 years of research experience in complex carbohydrates and chemical structures of human and animal-associated antigens using analytical biochemistry and liquid chromatography. Forty hours per week, 8:30 a.m. to 5:00 p.m., $75,000 per year. Mail résumé to: Dr. C. Ferrario, 1100 North Eutaw Street, Room #212, Baltimore, MD 21201, Job # 8943569. Job location: Gaithersburg, Maryland. Proof of legal right to work in the United States.

STUDY DIRECTORS. Microbiological Associates' expansion has created opportunities for Ph.D.'s with the following expertise: IN VITRO CYTOTOXICITY. Requires 2 to 5 years of experience with a background in tissue culture and preferably experience with one or more cell or tissue based assays. MAMMALIAN CELL MUTAGENESIS. Requires experience with mammalian cell culture and "hands on" experience with the mouse lymphoma TK+/TK- assay and/or the CHO/HGPT assay. SAFETY EVALUATION OF BIOPHARMACEUTICALS. Requires 2 to 5 years of experience in molecular biology, gene cloning, and mammalian cell culture relating to virology.

Senior RESEARCH ASSOCIATE for a medical care and research center in northeastern Ohio to develop a research proposal and to obtain the funding for the effects of epidural growth factor on the growth and differentiation of human endometrial cells in serum-free conditions; study the interaction of the effects of estradiol and progesterone; conduct interviews with gynecological patients scheduled for hysterectomy to ascertain ability of tissue sampling; perform retroactive chart review of gynecological history to ensure presence of histologically normal tissue. Collect and prepare postoperative tissues; establish culture systems for human endometrial cells in the absence of serum; characterize tissues to determine growth characteristics of human endometrial cells in serum-free conditions; determine the effects of estradiol and progesterone on the rate of cell growth; determine the effects of epidural growth factor on growth of human endometrial cells. Ph.D. in biology, biochemistry, or medical sciences. Pay is $20,000 plus. Send resumes to: L. Eggleston, J/O # 1084519, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

The Center for Indoor Air Research, a new nonprofit corporation which sponsors objective scientific research on the full gamut of indoor air topics, has available its 1989/1990 Request for Applications booklet. For the provision of sufficient time for the Science Advisory Board and peer-review process to occur, applications for 1 January 1991 funding must be received by 31 July 1990. For more information on the Center for Indoor Air Research, call Dr. William Joyce at Request for Applications booklet, call or write: Center for Indoor Air Research 10900 Winterston Road, Suite 280 Littleton, CO 80120 Telephone: 303-684-3777

CAREER CHANGE OPPORTUNITY. This unique program offers the candidate with an earned doctorate in the sciences the opportunity to obtain the Doctor of Optometry (O.D.) degree in two calendar years. Employment opportunities exist in private practice, industry, education, and research. Contact: Dr. D. Chauncey, Program Director, Accelerated Program, The New England College of Optometry, Room S, 424 Beacon Street, Boston, MA 02115.

Positions OPEN

TECHNICAL ASSISTANT (s) (including tuition waiver) available for qualified applicants beginning September 1990. Graduate study leading to M.S. or Ph.D. with concentration in biochemistry, botany, ecological agriculture, microbiology, molecular and cellular biology, pharmacology, or entomology. For information, contact: Graduate Coordinator, Department of Biology, Northeastern University, Boston, MA 02115. Northeastern University is an Equal Opportunity/Affirmative Action Title IV Employer.

PRE- AND POSTDOCTORAL TRAINING IN TOXICOLOGY. Pre- and postdoctoral trainee positions, supported by the National Institute of Environmental Health Sciences (NIEHS), are available at Oregon State University (OSU) through the Toxicology Program and the Environmental Health Sciences Center. Trainees will engage in research with emphasis on basic mechanisms for toxicity of environmental agents. Fellowships are available on a competitive basis to applicants (U.S. citizens and permanent residents only) with training in chemistry, biochemistry, pharmacology, or the biological sciences. Ph.D. or equivalent degree required. Application materials are due by 30 April 1990. Send a resume, statement of scientific interests, and three letters of reference to: Donald R. Buhrer, Ph.D., Chairman, Toxicology Program, Environmental Health Sciences Center, Oregon State University, Weniger Hall 317, Corvallis, OR 97331-6504. Telephone: 503-773-2363.

MEETINGS

VASOACTIVE PEPTIDES AND HYPERTENSION. Satellite Symposium of the 11th Scientific Meeting of the International Society of Hypertension, Montreal, Canada.

SUNDAY, 24 JUNE 1990 THE MONTREAL CONVENTION CENTRE MONTREAL, QUEBEC, CANADA

Convenors: Dr. M. Cantin and Dr. D. Regoli.

Speakers: Dr. P. B. M. W. Timmermans, Dr. H. Brunner, Dr. J. M. Pollak, Dr. D. Regoli, Dr. P. M. Van Houcke, Dr. V. Dzau, Dr. D. Ganten, Dr. M. J. Dunn, Dr. O. Carretero, Dr. T. Masaki, Dr. C. Ferrario, Dr. E. L. Schiffrin, Dr. D. J. D’Perna, Dr. J. Plante, Dr. H. Gavras, Dr. G. Samuels, Dr. E. J. Sybertz.

Registration fee (includes lunch): $50.00, students; $55.00, non-residents; $50.00, non-residents inquiring to M.D. or Ph.D. Research Institute of Montreal, 110 Pine Avenue West, Montreal, Quebec, Canada H2W 1B7. Telephone: 514-978-5602. FAX: 514-987-5678.

FELLOWSHIPS

WOLSEY BIOSCIENCES CORPORATION LYMPHOKINE PARTNERS LTD

POSTDOCTORAL FELLOW AND RESEARCH ASSISTANT positions are available for research in the isolation, characterization and cloning of mature cytokines via gene cloning and construction of multifunctional cell factors via in vitro intercistronic fusions. The research is a major part of the research and development program of this leading biotechnology company which is well supported, innovative, and centrally located to other Dallas medical research institutions. Candidates should have excellent backgrounds in biochemistry/molecular biology although experience in immunology and cytokine research would be advantageous. This is an opportunity for professional growth not only academically but also as a participant in the development of an exciting biotechnology company which has been recognized for its business and scientific strength.

Interested parties should send their curriculum vitae and three letters of reference to: Dr. Arthur P. Bollon, President Wolsey Biosciences Corporation Lymphokine Partners Ltd. 1720 Regal Rose, Suite 215 Dallas, TX 75235

SCIENCE, VOL. 247
HEALTH SCIENTIST ADMINISTRATORS
NATIONAL CENTER FOR HUMAN GENOME RESEARCH
NATIONAL INSTITUTES OF HEALTH (NIH)

The National Center for Human Genome Research seeks outstanding candidates with a Ph.D. or M.D. and experience in molecular biology or genetics to serve in the Human Genome Program at NIH in Bethesda, MD. The areas for which candidates are sought are:

- Informatics
- International Coordination
- Human Genetics, Molecular Biology

Candidates must have at least three years of postdoctoral training and significant scientific experience beyond the postdoctoral level. The duties of the positions will include administration of a portfolio of research and training grants relating to the subject area, maintaining a thorough knowledge of ongoing genome projects in that area, and advising the Center Director on policy development regarding genome issues. The position for international coordination will require substantial travel for the purpose of establishing strong international ties for the NIH genome project and assessing the state of genome projects in other countries. The salary range is $42,600 to $65,000 or may be negotiable commensurate with qualifications and experience. Interested candidates should submit curriculum vitae and names of three references to:

Ms. Karen Thomas
National Institutes of Health
Building 31, Room 1C27
9000 Rockville Pike
Bethesda, MD 20892
(301) 496-2400

U.S. Citizenship Required
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GORDON RESEARCH CONFERENCES
ASSISTANT TO THE DIRECTOR

Well-established firm, tax-exempt, nonprofit, Rhode Island based, multi-location of operations.

Individual must have earned PhD in either Chemistry, Physics or Biological Sciences, be free to travel, live and work approximately 6 months a year away from home office.

The individual is responsible for development and implementation of fundamental proposals for scientific meetings. Grant-Contract experience with government agencies and foundations essential. Requirements include exceptional management expertise with emphasis on organizational and interpersonal skills. Knowledge and use of Digital MicroVax 3400 computerized system necessary for on-line planning.

Individual must be detail-conscious and interact effectively at all levels within the organization. Requires strong verbal and written communication skills. "Hands-on" contact with professional, research-oriented, high-profile academic, government and industrial scientists.

Competitive Salary—Generous Fringe Package—Non Smoking Environment

Letter of application, resume, references, and salary requirements should be mailed to:

Dr. Alexander M. Cruickshank, Director
Gordon Research Conferences
Gordon Research Center
University of Rhode Island
Kingston, RI 02881

PLANT TAXONOMIST

Missouri Botanical Garden, a premier institution of its type, is actively seeking candidates for a plant taxonomist position in its Division of Horticulture.

The position involves the formulation and implementation of collections policy to maintain diversification of the Garden’s many living collections; the plant taxonomist will manage the plant records database, advise on identifying plants in the living collection and updating nomenclature, and coordinate our participation in the Center for Plant Conservation. In addition, responsibilities include extensive involvement in writing interpretive material: plant labels, explanatory pamphlets for displays, educational brochures about the plants, and articles for the Garden’s Bulletin. There will be significant and ongoing collaborative activities between this horticultural division position and research division staff and professionals of numerous disciplines. The chosen applicant will be challenged to identify, access and put into cultivation native plants of Missouri and surrounding regions with emphasis on plants of botanical and horticultural merit.

The position affords an opportunity to increase and nurture an already extraordinary collection. Those who possess a Ph.D. in botany or Master’s with equivalent experience are invited to apply. Fully qualified applicants will demonstrate in-depth knowledge of plant classification. Minimum of five years work-related experience inclusive of supervisory responsibility is required.

In addition to the outstanding opportunity inherent in the position, Missouri Botanical Garden offers an exceptionally stimulating and supportive work environment and provides competitive wages and benefits, including a generous employer contribution to a Tax Deferred Annuity Program.

Qualified candidates are encouraged to apply immediately; applications will be accepted until the position is filled. Submit your curriculum vitae and three letters of reference to:

Director, Human Resources
Missouri Botanical Garden
P.O. Box 299
St. Louis, Missouri 63166

Equal Opportunity Employer. Minorities and women encouraged to apply.

ENDOCRINOLOGIST
Pharmaceutical Products Division

Abbott Laboratories’ Pharmaceutical Products Division is a leader in the development and manufacture of anti-infective, cardiovascular and anti-convulsant/neurological products. Supported by a significant investment to R&D, twice the industry standard, we maintain a variety of specialized labs featuring state-of-the-art developmental technologies. Our extensive technical resources create a superior environment for those who would like to make a significant personal and professional commitment.

A reproductive endocrinologist is needed to design and implement In-vitro testing strategies in the General Pharmacology department. The selected candidate will possess a Ph.D. in endocrinology, physiology or pharmacology, with 2-3 years postdoctoral experience in reproductive research. An extensive knowledge of reproductive function and control is required, with experience in animal surgery and methods for evaluation of effects on ovulation and spermatogenesis. Familiarity with experimental models of prostatic cancer and endometriosis, and methods for In-vitro fertilization (IVF/GIFT) is desirable.

Abbott Laboratories offers each employee an environment in which to build a distinguished career, and provides competitive compensation and benefits including a profit sharing and stock retirement plan. We are located in an attractive suburban area approximately 50 miles north of Chicago. If you believe that you can benefit from a long-term association with Abbott, and your credentials meet the indicated requirements, please send your resume with salary history to: Patricia Hanley, Corporate Placement, Job #7613, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. (To facilitate the handling of your resume, please indicate Job Number on your cover letter or resume.) Abbott is an Affirmative Action Employer.
POSTDOCTORAL POSITION

Position available for an individual with a Ph.D. in cell biology, biochemistry, or physiology with experience in cell culture. The successful applicant will be involved in research into the molecular mechanisms through which physical forces, generated during cellular deformation, influence cellular biochemistry. Research will focus on the molecular structures involved in regulation of mechanically-sensitive adenylyl cyclase and Na+/H+ antiporter activities during volume expansion and compression, as well as during cell spreading following extracellular matrix attachment.

Competitive salary and fringe benefits are available. Please send CV and three names or letters of reference to:

Dr. Peter A. Watson
Wels Center for Research
Geisinger Clinic
Danville, PA 17822

Geisinger

POSTDOCTORAL FELLOWSHIP

Post-doctoral fellowship position is available at the National Institute on Alcohol Abuse and Alcoholism, for studies of the molecular pharmacology and regulation of hormone receptors. Preference is given to applicants with experiences in protein purification and receptor biochemistry/pharmacology. Salary is commensurate with experience. Only U.S. citizens or permanent residents are eligible for this position. Send CV and name of three references to:

Dr. George Kunos
Laboratory of Physiologic and Pharmacologic Studies
NIAAA
12501 Washington Avenue
Rockville, MD 20852
Telephone (301) 443-1234

NIAAA is an Equal Opportunity Employer

POSTDOCTORAL FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP. The Reingold ECG Center, Cardiology Section, at Northwestern University Medical School is seeking a candidate who will study the effects of isotropic agents on cardiac cellular electrophysiology and intracellular calcium transients (using indo-1 fluorescence). M.D. and/or Ph.D. required; experience with cellular electrophysiological techniques preferred. Send curriculum vitae and three letters of reference to: Dr. J. Andrew Wasserstrom, Reingold ECG Center, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. An Equal Opportunity/Affirmative Action Employer. Employment eligibility verification required upon hire.

PREDOCTORAL AND POSTDOCTORAL FELLOWSHIPS

The University of Texas at Austin and the University of Texas M. D. Anderson Cancer Center–Science Park Research Division at Smithville jointly sponsor a training program in tumor biology and cancer. This program provides pre- and postdoctoral training in a variety of research disciplines concerning cellular and molecular biology of oncogenesis. Research facilities are outstanding and participating investigators have strong, well-funded research programs. Participating faculty include: Henry R. Rose, Jr.: Transformation of lymphoid cells by the v-rf oncogene.


Jaquelin P. Dudley: Carcinogenesis by retroviruses.


Michael C. MacLeod: Interaction of carcinogens with biological macromolecules.

Richard J. Meyer: Replication of broad host-range plasmids.

Ellen R. Richic: Tumor suppressor genes in carcinogenesis.

Bob G. Sanders: Modulation of retrovirus-induced immune dysfunction and tumorogenesis.

Tom Slaga: Cellular and molecular mechanisms of chemical carcinogenesis.

James R. Walker: E. coli chromosome replication.

Interested students should write: Dr. Henry R. Rose, Jr., Department of Microbiology, The University of Texas at Austin, Austin, TX 78712 for information and an application form. Prospective postdoctoral fellows should send a résumé and description of research background to the appropriate faculty member(s) at the above address. Minority applicants are encouraged to apply. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

SITUATIONS WANTED

CLINICAL PHARMACOLOGIST, Ph.D. (catecholamines). Experience in physiological evaluation, assay development, instrument design, legal and business aspects of intellectual property protection. Box 25, SCIENCE.

ENVIRONMENTAL SCIENTIST, Ph.D. Currently monitoring LLRW repository development. Academic/industry/project management experience; OSHA HAZMAT certified. Geology/hydrology, chemistry background. Box 23, SCIENCE.

EXPERIMENTALIST, Ph.D., 20 years of university research experience, seeks industrial/academic research position: SEM/EDX, XRD, hydrothermal, and controlled atmosphere furnace expertise. P. Freeborn, 65 Park Avenue, Poughkeepsie, NY 12603.

IMMUNOLOGIST, Ph.D. Background in human tumor immunity, hybridomas, monoclonal antibodies, and cell culture. Seeking management position in biotechnology R&D. Box 26, SCIENCE.

MICROBIOLOGIST/BIOCHEMIST, Ph.D. Experience: diagnostic reagent development, reagent adaptation to instrumentation, product production via fermentation, research, process development, regulatory. Box 24, SCIENCE.

FIRST-YEAR LAW STUDENT seeks summer position. Environmental policy and sociology doctorate expected 1990 (Yale). Diversity, B.A. geology, M.S. geography. Box 27, SCIENCE.

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP IN BIOTECHNOLOGY

ICI Pharmaceuticals is one of ICI’s major international business areas . . . with an outstanding record of achievement and innovation.

We are now offering a 2-year fellowship in our Biotechnology Department at our research complex in Cheshire, close to the Peak District and only 18 miles south of Manchester.

You should have a Ph.D. in biochemistry and experience in the purification and chemical/biochemical characterization of glycoproteins. It would also be advantageous if you have postdoctoral experience in glycopilids or proteoglycan characterization. A working knowledge of EAB-MS, GC-MS, and/or H-NMR of oligosaccharides would also be useful.

You will be expected to complement our existing expertise in glycosyltransferase characterization and to apply your talents to both native and recombinant glycoproteins in the search for new therapeutic approaches.

Interested candidates should write with full curriculum vitae, quoting Reference AMS/LP, to: The Personnel Department, ICI Pharmaceuticals, Mereide, Alderley Park, Nr. Macclesfield, Cheshire SK10 4TG, England.

MARKETPLACE

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SCIENCE, VOL. 247
POSITION AVAILABLE
DIRECTOR, MEDICATIONS DEVELOPMENT DIVISION
NATIONAL INSTITUTE ON DRUG ABUSE
ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, Medications Development Division, National Institute on Drug Abuse.

This is a Senior Executive Service position in the career civil service, with an annual salary range of $71,200 to $79,200. Physicians may also be eligible for a Physicians' Comparability Allowance of up to $20,000 per year. The position is located in Rockville, Maryland.

The Director, Medications Development Division provides programmatic, administrative, and general management of the five branches of the Division: the Biometrics Research Branch, the Clinical Trials Branch, the Regulatory Affairs Branch, the Chemistry and Pharmacetics Research Branch, and the Pharmacology and Toxicology Branch. The Director is also responsible for coordinating the activities and medications development requirements of the three ADAMHA Institutes into the scientific and management activities of the Division and maintains close contact with designated medications development staff at the National Institute on Alcoholism and Alcohol Abuse and the National Institute of Mental Health.

The Director is also responsible for maintaining close working relationships with senior staff at the Food and Drug Administration on matters relating to operational and scientific procedures involved in medications development as well as the development of policy affecting ADAMHA's programs. Additionally, the Director provides authoritative advice and consultation to senior agency officials on a wide range of matters pertaining to the treatment of brain and behavior disorders and the pharmacological evaluation of new treatment agents.

Minimum qualifications requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's degree or higher degree in an academic field related to the health sciences pertinent to the work of the position. Candidates must demonstrate evidence of progressively responsible experience in managing large, complex science/research programs in the biomedical/behavioral areas; supervising or collaborating with senior-level scientists in academia, private industry, or the Federal Government; extensive current knowledge of research methodology in the biomedical, behavioral, pharmacological, or clinical sciences in areas relevant to drug abuse.

Further information about the position and qualifications requirements may be obtained by contacting Ms. Leslie Everheart at (301) 443-5030. An SF 171 (Application for Federal Employment) accompanied by a current curriculum vitae and bibliography should be submitted to Ms. Everheart at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Complete Application material (including the SF 171) must be postmarked by the closing date of April 30, 1990. Resumes are not acceptable for entrance into the Senior Executive Service.

Applications from women and minority group members are encouraged.

THE ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION IS AN EQUAL OPPORTUNITY EMPLOYER

SCIENTIST
DIVISION OF SURGICAL RESEARCH

A Scientist position is currently open in the Division of Surgical Research in The Research Institute of The Hospital for Sick Children. The research focus in this Division is transplantation biology. The Research Institute of The Hospital for Sick Children is the largest pediatric research institute in Canada. The Institute is based on a firm an secured long-term endowment. Currently, the Institute has 18 research divisions with over 150 principal investigators and 200 trainees supported by a full range of excellent research services. The existing research programs are strong, innovative and collaborative.

Applicants should have a Ph.D. or M.D. degree with post-doctoral research training in one of the following areas: transplantation immunology; immunochemistry; immunopharmacology; tumor immunology. The successful candidate will be expected to establish a strong independent program and will be encouraged to interact with other basic or clinical scientists in the Research Institute. Excellent office and laboratory space and equipment are available in the Division of Surgical Research. Salary, rank and start-up funds are negotiable. The successful candidate will be appointed to the Department of Surgery of the University of Toronto. Cross-appointment to other departments is possible.

Please send a Curriculum Vitae and the names of three references, quoting file #E023 and post-marked no later than May 18, 1990, to: Cho Y. Pang, Ph.D., Chairman of the Search Committee, Division of Surgical Research, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8.

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