POSITIONS WANTED

Flow Cytometer/Immunologist, Ph.D. Eight years of experience in flow cytometry, including detection of DNA aneuploidy in human genetic disease, sex determination and quantitative comparison of cellular DNA in numerous species of the major vertebrate classes, quantification of RNA and protein synthesis, study of fetal cells in maternal circulation and lymphocyte typing. Strong interest in flow cytometric detection and assay of mutants and direct quantification of these effects in individuals and populations. Box 65, SCIENCE.


Mass Spectroscopist, Ph.D. Broad and productive research experience applying mass spectrometry in the chemical and biological sciences. Many publications. Excellent writing and interpersonal skills. Experienced in all aspects of NIH grant processes. Seeks interdisciplinary opportunity at the mid to senior professional level in academia, government, or private sector. Box 81, SCIENCE.

M.S. Plant Biochemist. Three publications in plant enzymology/physiology. Experienced in plant tissue culture/regeneration, maize pollenation/genetics, many biochemical techniques. Nursery and botanical garden experience. Seeks position in broad based skills in biochemistry and plant science. Box 78, SCIENCE.


Research Scientist, Ph.D. Looking for an interesting research project. Background in wound healing, plasma proteins, and connective tissue. Box 70, SCIENCE.


Toxicologist, Ph.D., Board-certified with 10-plus years of industrial experience seeks position in California: chemical, consumer product, pharmaceutical, and hazardous waste site experience. Box 71, SCIENCE.

POSITIONS OPEN

ASSISTANT DEAN, ENGINEERING/SCIENCE/MATHMATICS. Ocean County College has extended its search for this 12-month position. Master's degree required, earned Doctorate desired. Five years of teaching experience in appropriate subject area at post-secondary level and demonstrated leadership in educational administration, preferably at department level, required. Send résumé, transcripts, and three professional letters of reference to: Ocean County College, Personnel Department, CN2001, Toms River, N.J. 08754 by 16 June 1989. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF HORTICULTURAL ENTOMOLOGY

The Department of Entomology, University of Missouri, invites applications for this 12-month, tenure-track position. The successful candidate will develop an extension program (70% effort) and complementary research program (30%) on horticultural arthropods. Ph.D. in entomology, effective communication and teaching skills, and competence in Insecta are required. Submit by 1 August 1989 a letter describing qualifications and goals; résumé; transcripts; publications; and request four letters of reference, all to: R. D. Hall, Chair Search Committee, Department of Entomology, 1-87 Agriculture Building, University of Mis- souria, Columbia, MO 65211. Telephone: 314-882-8254. The University of Missouri is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR POSITIONS

UNIVERSITY OF CALGARY ACADEMIC POSITION: NEUROSCIENCE GROUP

The University of Calgary Department of Medical Physiology invites applications for a limited term academic position in the Neuroscience Research Group. Applicants should have at least 2 weeks of experience in research work in the field of automatic (homeostatic) neurophysiology. Academic rank and salary will be commensurate with qualifications and experience. In accordance with Canadian immigration requirements, priority will be given to Canadian residents and permanent residents of Canada. The University of Calgary is committed to employment equity.

Applications should submit their curriculum vitae and the names of three referees by 15 July 1989, to:

Dr. J. S. Davison
Professor and Head
Department of Medical Physiology
Faculty of Medicine
The University of Calgary
3330 Hospital Drive N.W.
Calgary, Alberta T2N 4N1

UNIVERSITY OF ROCHESTER SCHOOL OF MEDICINE AND DENTISTRY DEPARTMENT OF PSYCHOLOGY ASSISTANT PROFESSOR

Applications are invited for a tenure-track position at the level of assistant professor in cellular neurobiology and systems neurobiology. Preference will be given to applicants who have demonstrated expertise in research areas of interest to the department. The Department of Psychology emphasizes interdisciplinary approaches to the study of neural function and behavior. The current major research themes of the department are development, reorganization following injury and disease, and learning. Applications must be submitted by 15 August 1989. Curriculum vitae, description of research interests, and three confidential letters of recommendation to: Chair, Department of Psychology, University of Rochester, Rochester, N.Y. 14627.

UCI is an Affirmative Action/Equal Opportunity Employer.
ASSOCIATE PROFESSOR IN NEUROPATHOLOGY

Applications are invited for an associate professor of neuropathology. Board-eligible, research-oriented neuropathologist with basic scientific interests in the broad areas of slow viruses/dematiases or genetic/tumor related skills is a particular plus. The position includes potential for academic advancement. Start date is first quarter of academic year 1989. Send curriculum vitae and the names of referees to: Dr. Laura Manelis, Department of Surgery, Section of Neuropathology, Yale University School of Medicine, P.O. Box 3333, New Haven, CT 06510. Yale is an Equal Opportunity/Affirmative Action Employer. Prefer applications received by 15 June 1989.

ASSISTANT RESEARCH NEUROCHEMIST

needed to conduct joint research on iron metabolism in the brain and the possible role of iron in degenerative diseases. Responsibilities include the isolation and characterization of iron proteins, receptors, mRNAs and protein localization, and tissue transplants. Requirements: Ph.D. in neurochemistry. Three years of experience in electrophoresis and astrocyte culture, preparation of mononuclear and polyclonal antibodies, RIA, ELISA, immunocytochemistry, protein purification, receptor studies, radioiodination and autoradiography. Must also have 2 years of postdoctoral experience in iron metabolism research. Job location: Los Angeles, California, $30,000 per year. Send detailed curriculum vitae to: Dr. Bruce Chapman, 4300 Harger St., Los Angeles, CA 90065. Applications should be received by 15 June 1989. The successful candidate will be offered an NIH Postdoctoral Fellowship.

BIOANALYTICAL CHEMIST

The Research Triangle Institute is seeking a full-time bioanalytical chemist to participate in interdisciplinary research programs. The position requires a Ph.D. in chemistry, pharmaceutical chemistry, pharmacology with postdoctoral experience of 5 years or greater experience in the field. In addition to the above, the candidate will be expected to perform work in the following areas: (i) development and validation of pharmaceutical assays. Suitable candidates will be considered at all levels.

TRUDEAU INSTITUTE, INC.

BASIC RESEARCH SCIENTISTS

The Trudeau Institute is always interested in receiving applications for tenure-track, full-time research staff positions. Interested applicants are invited to submit their curriculum vitae and letter of interest to: Office of Personnel, 1200 Independent Avenue, Washington, D.C. 20585, between 10 and 4, Monday through Friday. Applications are reviewed on an ongoing basis. Send a letter, resume, undergraduate and graduate transcripts, and one letter of recommendation to: Dr. Charles Chapman, Biology Department, Troy State University, Troy, AL 36082. TSU is an Affirmative Action/Equal Opportunity Employer.

BIOLOGIST: Cornell College

Cornell College, a private liberal arts college located in Mount Vernon, Iowa, seeks candidates to fill a 1-year position in its Biology Department. The successful applicant may be considered as a tenure-track candidate for 1990 to 1991. Courses to be taught include genetics, developmental biology, and introductory biology. Send curriculum vitae and letters of reference to: Paul Christiansen, Chair Department of Biology Cornell College Mt. Vernon, IA 52314

Formal consideration of applications will begin 1 July 1989. Cornell College is an Equal Opportunity/Affirmative Action Employer and actively seeks applications from women and minority candidates.
RESEARCH SCIENTIST
Fungal Biochemist/Physiologist

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. Lilly invests over $500 million in research-and-development programs annually. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking a self-motivated, innovative scientist to plan, organize, and direct a basic research program on the biochemistry and physiology of pathogenic fungi. Qualifications include the following:

- Doctoral-level microbiologist (or related discipline) with relevant postdoctoral experience and/or independent research in the area of fungal biochemistry and physiology.
- Demonstrated ability to conduct basic research on the biochemistry of pathogenic microorganisms and an understanding of molecular biology of lower eukaryotes is highly desirable.
- The investigator will join a multidisciplinary infectious diseases research effort and is expected to develop an independent research program directed toward the identification, verification, and characterization of specific biochemical targets for the design of effective and safe antifungal agents.

In addition, this scientist must have the leadership capabilities needed—technical, communication, interpersonal, and organizational skills—to build a research program.

Eli Lilly and Company is committed to scientific excellence. Lilly provides a stimulating professional atmosphere with many opportunities for collaborative, multidisciplinary research. The company offers an attractive total compensation program. Entry level and salary will be based upon each candidate's experience.

For prompt consideration, please forward your curriculum vitae to:

John W. Crooks, Manager
Ph.D. Recruitment (IDR)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285

Equal Opportunity Employer
DIRECTOR, DIVISION OF BIOTIC SYSTEMS AND RESOURCES
NATIONAL SCIENCE FOUNDATION
WASHINGTON, DC 20550

NSF's Directorate for Biological, Behavioral and Social Sciences is seeking qualified candidates for the position of Director, Division of Biotic Systems and Resources. The Division's research is in systematic biology, population biology and physiological ecology, ecosystem studies and ecology, and biological resource research.

This Senior Executive Service position, with a salary range of ES-1 ($68,700) to ES-4 ($76,400), is announced for a two- to three-year term basis. Alternatively, assignment may be made under the provisions of the Intergovernmental Personnel Act. Applicants must have a Ph.D. or equivalent experience in biological disciplines supported through the programs of the Division (e.g., ecology, ecosystem studies, population biology and physiological ecology, and systematics biology); substantial research contributions; and innovative leadership in research administration in the biological sciences; and the ability to achieve organizational objectives through the supervision and management of subordinates.

Applicants should contact: Barbara Coleman on 202-358-7601 (hearing impaired individuals may call TDD 202-358-4555). The position is EEO 89-8 (career), EP 89-15 (limited term), or EP 89-25 (IPA) for complete qualification requirements and application procedures. Applications must be received by July 1989.

Equal Opportunity Employer

ECOLOGIST
Assistant professor (tenure-track) position anticipated, January 1990, in Department of Biological Sciences, University of New Orleans. Postdoctoral experience required. Candidate expected to conduct independent research in community ecology of aquatic or terrestrial systems. Teaching includes a basic course in ecology. Applicants should send résumé and statement of research goals and interests to: Dr. G. Welch, Department of Biological Sciences, University of New Orleans, New Orleans, LA 70148. Deadline: 30 June 1989. An Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL (ECO)-TOXICOLOGIST
Procter & Gamble has an opening for a Ph.D. or postdoctoral eco-toxicologist in its Environmental Safety Division in Cincinnati, Ohio. This entry-level staff position offers a combination of environmental research and issue management in a multidisciplinary setting.

Essential qualifications include a Ph.D. or equivalent experience in toxicology, environmental science, or related fields. Experience as a research toxicologist is essential, as is training and experience in aquatic or terrestrial biology/ecology, and environmental toxicology. Applicants must be U.S. citizens and hold a permanent resident visa.

Send résumé and publication list to: Dr. T. J. Logan, Manager, Ph.D. Recruiting, Environmental Toxicology Position, The Procter & Gamble Company, Miami Valley Laboratories, P.O. Box 398707, Cincinnati, OH 45239–8707.

Procter & Gamble is an Equal Opportunity Employer.

FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
Excellent facilities, good support and good research environment available for established or highly promising researcher. Level of appointment commensurate with qualifications. Preference given to new or tenured candidates who can enhance existing group of researchers on hormone action, in areas such as molecular structure/function relationships, protein chemistry, and metabolism of peptide hormones. By 31 August 1989, send curriculum vitae, bibliography, and three references to: Dr. John T. Pennings, Department of Biochemistry and Molecular Biology, Mayo Medical School, Rochester, MN 55905. Mayo is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY
Excellent facilities, good support and good research environment available for established or highly promising researcher. Level of appointment commensurate with qualifications. Preference given to new or tenured candidates who can enhance existing group of researchers on hormone action, in areas such as molecular structure/function relationships, protein chemistry, and metabolism of peptide hormones. By 31 August 1989, send curriculum vitae, bibliography, and three references to: Dr. John T. Pennings, Department of Biochemistry and Molecular Biology, Mayo Medical School, Rochester, MN 55905. Mayo is an Affirmative Action/Equal Opportunity Employer.

HISTOLOGY/EMBRYOLOGY: Sabbatical replacement with potential for renewal is sought to teach these courses (one each semester), supervise laboratory teaching assistants therein, and serve on departmental committees. Beginning August 1989. Salary: $34,635. Contact: Dr. John P. Fisher, Department of Anatomy and Embryology, University of Miami School of Medicine, P.O. Box 0130, Miami, FL 33101. This is an Affirmative Action/Equal Opportunity Employer.

ELECTRON MICROSCOPY RESEARCH SPECIALIST
Full-time position available for an individual to be responsible for the day-to-day operation and maintenance of our E.M. facility. A sound knowledge of transmission and scanning electron microscopy is required. Also required is experience in handling biological samples and clinical pathology specimens; preparatory procedures (conventional and cryotechniques, fixation and embedding, ultrathin sectioning and immuno-electron microscopy); and photomicrography. Applicant must be willing to collaborate with a variety of laboratories and investigators. A master's degree in biological or physical sciences is required. Basic knowledge of biology or biochemistry is preferred. We offer an excellent salary and benefits package. Send résumé to: Personnel Office, U.S. Army Medical Research and Development Command, 1771 Burford Circle, Columbus, GA 31909. We are an Equal Opportunity Employer.

POSITIONS OPEN

FACULTY POSITION IN PALEONTOLOGY
University of California
AT BERKELEY

The Department of Integrative Biology seeks a paleontologist for a tenured-track assistant professorship or a tenured associate professorship starting 1 July 1990. Applicants should have an outstanding empirical and theoretical research program in a major field of modern paleontology. They must be committed to excellence in teaching at the undergraduate level and have the ability to stimulate productivity and creativity from graduate students.

The paleontologist will join zoologists, botanists, and paleontologists in an innovative, new department responsible for teaching and research in the broad area of biology. Plans are under way for an interdisciplinary Paleontology Group in Paleontology, Invertebrate Paleontology, and the Museum of Paleontology, which will continue the strong Berkeley tradition in paleontology. In addition to five current and six emeritus faculty members, the Group will include the Museum staff, the paleontologist will interact in teaching and research with numerous anthropologists, biologists, botanists, zoologists, and geologists in the Department and Graduate Group. The Department will be housed in a fully remodelled building containing modern laboratories and offices, the Museum of Paleontology, University Herbarium, Museum of Vertebrate Zoology, and Biology Library. The Museum of Paleontology's collections rank among the largest and most diverse in the nation. The Botanical Garden, Field Paleontology, and the libraries' extensive paleontological holdings continue to support paleontological teaching and research.

Applicants should send curriculum vitae, statement of research and teaching interests, names and addresses of three references, relevant reprints and manuscripts to: Chairman, Paleontology Search Committee, Department of Integrative Biology, University of California, Berkeley, CA 94720. Closing date for receipt of applications will be 2 October 1989.

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

GLOBAL CHANGE
 Scripps Institution of Oceanography, University of California at San Diego, invites applications for ASSISTANT, ASSOCIATE, OR FULL PROFESSOR (tenure-track or tenured) positions in meteorology, climatology, or atmospheric chemistry, and other fields closely related to the subject of global change. The successful applicants will teach and participate in research programs focused on the physical and chemical bases of natural and anthropogenic global change.

Rank and salary will be commensurate with qualifications and experience based on the University of California pay scale. At the time of appointment the successful candidate(s) must have a Ph.D. in a physical science. The positions will involve teaching, supervision, and support of graduate students, and the development of research programs supported by extramural funds. Associate or full professors should have evidence of a strong research record; assistant-level candidates will be expected to show evidence of their potential through a publication and record of teaching experience. Send letter of application including description of research interests, list of publications, résumé of teaching experience, and names of three referees to: Chairman, GC, Scripps Institution of Oceanography, UCSD, Mail Code A-008, La Jolla, CA 92039, U.S.A. Closing date for applications is 1 September 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.
The Department of Internal Medicine of St. Louis University School of Medicine invites applications and nominations for the position of Director of its Division of Cardiology. We seek a physician-scientist with a substantial publication record and a history of peer-reviewed grant support. The Director will be responsible for leading a large nationally recognized Division, which has significant potential for further development of its clinical and research programs. Generous research space and financial support will be provided. Please forward nominations and applications to Coy D. Fitch, M.D., Drees Professor and Chairman, Department of Internal Medicine, St. Louis University School of Medicine, 1402 South Grand Boulevard, St. Louis, MO 63104. Equal Opportunity Employer M/F/H/V.

St. Louis University School of Medicine

RESEARCH SCIENTIST
protein chemistry

Our client, a major Detroit manufacturing company with modern plant locations throughout the United States, has an exceptional opportunity available for a Research Scientist in Protein Chemistry.

You will be working with a specialized group of scientists in the areas of molecular biology and fermentation. This highly challenging project involves the use of protein engineering in the design of proteins for therapeutic use in humans.

This position requires that you have a Ph.D. and experience in state-of-the-art protein chemistry techniques. A strong background in protein purification and characterization along with experience in a wide variety of protein chemistry techniques and instrumentation is essential.

Our client offers a competitive compensation and complete benefits package. Qualified candidates are invited to send their resume to: Confidential Reply Service, Dept. AJK, Thompson Recruitment Advertising, 3000 Town Center, Suite 1600, Southfield, MI 48075. All replies will be forwarded to our client unopened. No phone calls please. Our client is an equal opportunity employer M/F/H/V.

Confidential Reply Service
Thompson Recruitment Advertising

SANDOZ RESEARCH INSTITUTE

POSITIONS IN METABOLIC RESEARCH

Sandoz Pharmaceuticals Corporation is approaching the 21st century with an expanding commitment towards development of safe and effective therapeutic agents for the treatment of cardiovascular, metabolic and immunologic diseases.

Two complimentary Sandoz Research Institute research and drug development programs, the Diabetes Department and the Department of Lipid and Lipoprotein Metabolism, currently have positions open in the area of metabolic regulation. The successful candidates will join multidisciplinary teams of biochemists, pharmacologists, molecular biologists and medicinal chemists whose goals are directed towards greater understanding of the metabolic mechanisms which may lead to or provide the rationale for novel treatments of non-insulin-dependent diabetes mellitus and hyperlipidemias. A willingness to function as a member of an interdisciplinary team of postdoctoral fellows, senior staff and Visiting Research Faculty members is essential and previous supervisory experience would be helpful. These positions require a demonstrated ability to plan and conduct independent research, a significant publication record, and excellent written and oral communication skills.

ASSISTANT FELLOW
Adipose Tissue Metabolism and Lipolysis

The Diabetes Department of the Sandoz Research Institute is seeking a scientist with a Ph.D. in Biochemistry, Pharmacology or a closely related discipline, at least two years of postdoctoral experience, and interests and expertise in metabolic regulation/enzymology. The candidate will work in the area of control of adipose tissue metabolism and lipolysis and will have the opportunity to develop a creative research program within a stimulating and supportive environment. Please respond to position #661.

ASSOCIATE FELLOW
Lipid Enzymology or Lipoprotein Metabolism

The Department of Lipid and Lipoprotein Metabolism of the Sandoz Research Institute is seeking a scientist with a Ph.D. in Biochemistry or a related discipline and a minimum of 3 years of independent postdoctoral research in one or more of the following research areas: enzyymology of cholesterol or glycerolipid synthesis; regulation of lipid synthesis; apolipoprotein and lipoprotein metabolism; regulation of lipid transport. The candidate will develop an independent research program within an environment containing cell biology, molecular biology and animal modeling programs. Please respond to position #656.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our company-like facilities are conveniently located in Northern New Jersey. For prompt consideration, please forward your resume with salary requirements and the position indicated to:

Robert N. Saunders, Ph.D.
Director, Human Resources 403/1
Sandoz Research Institute
SANDOZ PHARMACEUTICALS CORP
East Hanover, New Jersey 07936
An Equal Opportunity Employer M/F/H/V

SANDOZ
bringing research to life
POSITIONS OPEN
FISHERIES MANAGEMENT FACULTY POSITION. Tenure-track, 12-month position, beginning fall 1989 at the senior level. Ph.D. required. Ninety percent teaching, including ichthyology and an undergraduate and a graduate course, each related to fisheries management. Successful candidate is expected to develop a strong research program in cooperation with resource agencies. Send résumé, transcripts, a statement on teaching and research goals, representative reprints and three letters of recommendation by 30 June to: Dr. Charles F. Rabeni, Chair, Search Committee, School of Forestry, Fisheries and Wildlife, 112 Stephens Hall, University of Missouri, Columbia, MO 65211.

An Affirmative Action/Equal Opportunity Employer.

IMMUNOHISTOLOGIST/IMMUNOLOGIST DEPARTMENT OF HEMATOLOGIC AND LYMPHATIC PATHOLOGY ARMED FORCES INSTITUTE OF PATHOLOGY (AFIP).
Position available for a Ph.D. or M.S. candidate with a strong background in immunology or cell biology and experience in cell marker analysis. Duties include establishing and supervising the departmental immunohisto- logic laboratory and developing immunohistochemical techniques using lymph node material and supporting research on antigen expression in human lympho-reticular malignancies. Competitive salary commensurate with qualifications. Send curriculum vitae, representative reprints, and two references to: Dr. Kenton S. Hartman, AFIP, Washington, DC 20306–6000.

MEDICAL EPIDEMIOLOGIST—The Centers for Disease Control, AIDS Program seeks a Medical Epide- miologist for an established HIV/AIDS Project in Ken- shasha, Zaire. Applicants should have experience as Chief, Epide- miologic Research, Projet SIDA, and develops protocols and conducts epidemiologic studies to identify high risk groups, to determine factors associated with HIV infection and AIDS, modes of transmission, opportunities for prevention and control, and provide information to other NIH agencies, WHO, and others. Candidates must have a degree of Doctor of Medicine from an approved U.S. or Canadian medical school or a degree from a foreign school provided it is determined to be comparable or equivalent. Candidates must have training, knowledge, skills, and experience appropriate to the position being filled. Candidates must be fluent in French. For additional information regarding this position, contact: William L. Heyward, M.D., M.P.H., Chief, International Activity, AIDS Pro- gram, or interested applicants to send their applications and curriculum vitae to: William R. Hudson, Centers for Disease Control, 1600 Clif- ton Road, Atlanta, GA 30333. Applications must be received by 30 June 1989. CDC is an Equal Opportunity Employer.

NEUROANATOMIST UNIVERSITY OF ARIZONA
The Departments of Anatomy and Neurology are jointly seeking a new tenure-track faculty member. Preference will be given to applicants with specific research interests in comparative aspects of the structure and function of vertebrate limbic and cortical systems; active interests in work on a variety of species, including humans and non-human primates; actively involved in use of modern neuroanatomical techniques including immunocytochemistry; and capable of interacting with a broad spectrum of neuroscientists, including those interested in behavior, neurophysiology, and neuropharma- cology. Successful candidates will be expected to have a well-established research program and be qualified to teach neuroanatomy at the graduate level. Academic rank will be commensurate with candidate's qualifications. Submit curriculum vitae, two copies of relevant papers, a detailed description of research goals, and three supporting letters to: Robert S. McCauley, Head, Department of Anatomy, College of Medicine, University of Arizona, 1501 North Campbell, Tucson, AZ 85724. Consideration will continue until the position is filled, but applications should be received by 30 June 1989; however, applica- tions will be accepted until the position is filled. The University of Arizona is an Affirmative Action/Equal Opportunity/Affirmative Action Employer and applications from females and minority group members are strongly encouraged.

POSITIONS OPEN
UNIVERSITY OF CHICAGO LABORATORY COORDINATOR
One to two positions with responsibility for overseeing the teaching of undergraduate courses in the biological sciences. Duties will include new laboratory development and supervision of supply, instruction and maintenance. Knowledge of techniques and equipment of molecular/ cell biology essential. Salary commensurate with qualifications. By 1 July 1989 submit curricu- lum vitae, names of three references, and statement of qualifications to: Cell Biology/Intercellular Signaling Division, University of Chicago, 1116 East 59th Street, Chicago, IL 60637. Equal Opportunity/Affirmative Action Employer.

MEDICAL PHYSICISTS AND ENGINEERS
The Department of Diagnostic Radiology and Nuclear Medicine at Stanford Medical School has tenure-track faculty positions available for scientists in medical physics and medical imaging. These positions are newly created and will be the initial appointments to a new Division within the Department, which will also include scientists with expertise in NMR spectroscopy and image process- ing. The appointment will be at the rank (assistant, associate, or full professor) commensurate with prior accomplishments. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates. A Ph.D. in physics, medical physics, or electrical or biomedical engineering is required for this appointment.

The successful candidate will be expected to develop independent research programs as well as participate in collaborative research with members of the Department and other Departments at Stanford. Current major basic research interests of the Department include magnetic resonance imaging, magnetic resonance spectroscopy, nuclear imaging, and positron emission tomography, digital radiography, and ultrasound image process- ing. Other research opportunities include teaching of house officers and medical students, as well as involvement in quality assurance, radiologic equipment testing and radi- ation safety. Interested candidates should send a letter of inquiry and curriculum vitae to: Albert Maccovski, Ph.D. Search Committee Chairman Professor of Electrical and Radiology Informations Systems Laboratory, Durand 109 Stanford University Stanford, CA 94305

ABI Biotechnology Inc., a progressive Canadian phar- maceutical company has career development opportuni- ties for a professional individual MOLECULAR BIOLOGY QUALITY ASSURANCE. Preference will be given to candidates with experience in the following areas: Work with gene transfer, regulated expression, DNA sequencing, western blotting, mammalian expression systems, and characterizing expressed products. Qualified candidates may forward their curriculum vitae, publication list and letters of reference to: Personnel Manager, ABI Bio- technology Inc., 40 Seefield Boulevard, Winnipeg, Manitoba, Canada R3Y 1G4.

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

NEUROPSYCHOLOGIST/NEUROSIENTIST
The Montreal Neurological Institute invites applica- tions for Head of the Neuropsychology Unit with a faculty appointment as associate or full professor in the Department of Neurology and Neurosurgery, McGill University. Seeking a senior scientist with background and accomplishments in neuropsychology and neurosci- ence to conduct and coordinate basic and clinical research in neuropsychology as carried out by graduate and postdoctoral students and staff scientists. Salary will be commensurate with background and experience of the individual. Applications may be submitted at any time. Inquiries and applications (including curriculum vitae) should be sent to: Dr. B. E. Jones, Neuroanatomy Laboratory, Montreal Neurological Institute, 3801 University Street, Montreal, Quebec H3A 2B4, Canada.

THE UNIVERSITY OF MINNESOTA DEPARTMENT OF ANATOMY ANATOMY/NEUROSCIENCE
One or two candidates with strengths in teaching, research, and service should be received by 15 June 1989. The University of Minnesota, with a faculty of 1500, is located in Minneapolis, a metropolitan area of 1.5 million people located in a state that is the technology, educational, and cultural center of the Midwest. Applicants must be committed to excellence in teaching and to the philosophy of the American Medical Association to which the University is a strong adherent. The University of Minnesota, with an annual budget of $350 million, is one of the 10 most renowned and respected research universities in the nation. It has 19,000 students, including 2,900 graduate and professional students, and 2,000 full-time faculty members. The University is a member of the Committee on Institutional Cooperation (a consortium of ten major research universities in the Midwest) and has an annual budget of $1.3 billion. The University is a premier research institution, with 16 schools and colleges, including the School of Medicine and Dentistry, and has a faculty of more than 2,900. The University of Minnesota is an Affirmative Action/Equal Opportunity Employer.

The Department of Anatomy and Neurobiology, University of Minnesota, invites applications for a faculty position at the level of Assistant Professor in the Division of Neurosciences. The Department of Anatomy and Neurobiology, University of Minnesota, invites applications for a faculty position at the level of Assistant Professor in the Division of Neurosciences. Applicants should have M.D. or Ph.D. degree in any of the medical sciences with at least two years of post-doctoral experience in molecular biology. Candidates are expected to establish independent research programs in the area of molecular and cellular biology and teach both medical and graduate students. Both men and women are encouraged to apply. In accordance with Canadian Immigration, this advertisement is directed to Canadian citizens and permanent residents. Please send your resume, statement of research goals and names of three referees by 15 June 1989 to: Dr. N. S. Dhall, Division of Cardiovas- cular Sciences, St. Boniface Hospital Research Cen- ter, 351 Tache Avenue, Winnipeg, Manitoba, R2H 2A6, Canada.

PHARMACOLOGIST—TOXICOLOGIST
Applications are invited for several positions in toxi- colgy/pharmacology. Applicants should have a strong background in the environment and the candidate will be expected to seek external funding for research and nominally participate in teaching activities of the school. Salary will be commensurate with experience. Please send a letter of application, updated curriculum vitae, and three letters of reference to: Dr. Howard Mielke College of Pharmacy Xavier University 7335 Palmetto Street New Orleans, LA 70125 Telephone: 504-483-7421

PLANT MOLECULAR BIOLOGIST/ BIOCHEMIST
DNAP, the world’s largest independent agricultural biotechnology company, has immediate openings for research scientists in the Plant Molecular Biology Group. Research areas include expression and targeting in trans- genic plants and analysis of fruit ripening. Requires a Ph.D. degree with minimum of 2 years experience in plant molecular biology or biochemistry. Send cur- riculum vitae with the names of three references. An Equal Opportunity Employer/Discrimination.

DNA Plant Technology
Dean Galliartti
6701 San Pablo Avenue
Oakland, CA 94608–1239

POSTDOCTORAL FELLOW/ ASSOCIATE SCIENTISTS
We are seeking postdoctoral fellows or associate scien- tists to join a molecular biology group. The emphasis of the research is on the regulation of gene expression, with specific focus on the mammalian ribosomal DNA genes. The positions require a Ph.D. with significant experience in protein chemistry and/or molecular biol- ogy. Candidates for the position of associate scientist should have at least 2 years of relevant postdoctoral training. Experience in tissue culture methodologies would be desirable.

The Weiz Center for Research offers competitive sala- ries, a comprehensive benefits program, and the opportu- nity for advancement. The Research Center is housed in a new, completely equipped facility. The Research Center is within convenient driving distance of New York City, Philadelphia, and Washington, DC, and several major universities, yet it still offers the benefits of a small town environment. Interested candidates should send copies of their curriculum vitae and the names of three references to: Dr. Lawrence Rothblum, Weiz Center for Research, Geisinger Clinic, Danville, PA 17822.
POSITIONS OPEN

PLANT MOLECULAR BIOLOGY

POSTDOCTORAL POSITION available January 1990 for 1 year to investigate gene regulation in maize carotenoid biosynthesis. Must have Ph.D. in molecular biology or biochemistry with expertise in recombinant DNA techniques. Send resume, references, and publications to: Dr. Eileen Wurtzel, Biological Sciences, Lehman College of the City University of New York, Bronx, NY 10468. Telephone: 212-960-8643.

THE UNIVERSITY OF MANITOBA
DEPARTMENT OF PLANT SCIENCE
PLANT MOLECULAR GENETICS

The Department of Plant Science, University of Manitoba invites applications for a TENURE-TRACK POSITION in plant molecular genetics.

A Ph.D. is required and preference will be given to candidates with postdoctoral experience in molecular genetic techniques currently being applied to crop plant improvement. A strong background in classical plant genetics would be a definite asset. The successful applicant will be expected to develop a research program in collaboration with plant geneticists and crop physiologists working on the improvement of winter wheat and canola. Other duties will include participating in Departmental undergraduate and graduate teaching programs, and the supervision of graduate students. Salary and rank will be commensurate with qualifications and experience.

The University encourages applications from both men and women. In accordance with Canadian Immigration requirements, priority will be given to qualified Canadian citizens and permanent residents of Canada.

Applications including curriculum vitae, a summary of formal training and experience in genetics, reprints of recent publications, and the names of three referees should be submitted to: Dr. I. N. Morrison, Head, Department of Plant Science, University of Manitoba, Winnipeg, Manitoba, Canada R3T 2N2. This position is available immediately. Applications should be received no later than 15 July 1989.

POSTDOCTORAL ASSOCIATE
IN NEUROBIOLOGY

Position available in a laboratory studying the processes controlling neuronal synaptic formation and the regulation of neuronal synaptic components. For the regulatory studies, particular emphasis is being given to the neuronal nicotinic acetylcholine receptor and the role of cell-cell interactions in regulating acetylcholine receptor expression in neurons. Relevant techniques include immunofluorescence, electron microscopy, and biochemical and molecular approaches. Please send curriculum vitae, a statement of research experience and interests, and the names of three references to: Dr. Michele Jacob, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545.

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

POSTDOCTORAL FELLOW
CARBOHYDRATE BIOCHEMISTRY
JOHNS HOPKINS SCHOOL OF MEDICINE

Position available 1 July 1989 to Ph.D. with experience in carbohydrate chemistry/biochemistry to study ganglioside receptor ligands used to study neuronal recognition [J. Biol. Chem. 264, 1671 (1989)]. Salary competitive. Send curriculum vitae and names of references to: Dr. Ronald Schnaar, Department of Pharmacology, Johns Hopkins School of Medicine, Baltimore, MD 21205.

POSTDOCTORAL FELLOW/RESEARCH ASSISTANT—Position available immediately for individual with a Ph.D. in molecular biology, biochemistry or cell biology to study a novel oncogene (PIM-1). The project will concentrate on the role of PIM-1 in growth, differentiation, and neoplastic transformation. Starting salary commensurate with experience. Send current curriculum vitae and three letters of reference to: Dr. Lathia Nagrajan, M.D., Anderson Cancer Center, 1715 Holcombe Boulevard, Box 24, Houston, TX 77030. An Equal Opportunity/Affirmative Action Employer.
**EMBL**

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, West Germany, has the following vacancy:

**PROGRAMME COORDINATOR**

**GENE EXPRESSION**

The EMBL has at present 5 basic science programmes in Cell Biology, Differentiation, Gene Expression, Biological Structures and Biocomputing. Each programme contains between 7 and 10 independent research groups representing different background training. The programmes are focussed on one or two major topics. In 1990 a senior position as Coordinator for the Gene Expression Programme will become open and we are searching for an experienced scientist in molecular genetics at the full professor level preferably from any of the 14 member states of the EMBL: Austria, Denmark, Finland, France, Federal Republic of Germany, Greece, Israel, Italy, Netherlands, Norway, Spain, Sweden, Switzerland and the United Kingdom. It is expected that the Coordinator should lead his/her own research group and be instrumental in arranging collaboration within the Gene Expression Programme as well as bridge in between this programme and other basic science and instrumentation programmes at the EMBL.

We offer an above-average salary, plus certain allowances depending on personal circumstances.

Please send your C.V., bibliography and suggestions for referees to Dr. L. Philipson, EMBL, Postfach 10.2209, D-6900 Heidelberg, Federal Republic of Germany.

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**DOW CHEMICAL U.S.A.**

The Agricultural Products Department of Dow Chemical U.S.A. has immediate openings in HERBICIDE DISCOVERY RESEARCH. Successful candidates will join an interdisciplinary team of biochemists, plant physiologists and chemists and will participate in basic and applied research programs dedicated to the discovery of novel herbicidal molecules. Responsibilities include evaluation of potential herbicides by enzyme-based screening and characterization of enzyme inhibitor interaction through enzyme kinetic studies and ligand binding assays.

Candidates should have a MS or BS in biochemistry, molecular biology, plant physiology or related field. Experience in several of the following areas is required: protein purification, enzyme assays, chromatographic techniques (HPLC, FPLC), electrophoresis, immunoassays, and receptor binding methodology. Prior experience with radioisotopes and personal computers is desirable.

Parts of this expanding organization are currently located both in the San Francisco Bay Area and in Midland, Michigan. The laboratory will relocate in 1992 to newly constructed, state-of-the-art research facilities in the Indianapolis, Indiana area. Currently positions are available in California and Michigan.

Dow Chemical offers a salary and benefits package commensurate with experience and outstanding opportunities for career growth and advancement.

Qualified candidates may send their resume to Hugh West, Mgr., Human Resources, Dow Chemical U.S.A., P.O. Box 9002, Walnut Creek, CA 94598-0902. Dow Chemical is an equal opportunity employer.

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**PROJECT LEADER**

**PROTEIN / HAPten CHEMISTRY**

Agri-Diagnostics Associates (ADA), a leader in the development and marketing of new biotechnology products for agricultural and environmental diagnostics markets, offers a new position of Project Leader - Protein/Hapten Chemistry.

The project leader will serve as lead scientist in a major start up effort to develop and validate unique immunoassays for small organic molecules such as pesticides and other environmental contaminants.

Requirements include a PhD in biochemistry or organic chemistry, working knowledge of HPLC/TLC/GC-MS and spectrophotometric techniques, experience in small molecule immunochemistry and molecular and macromolecular derivatization and characterization. ADA, a joint venture of DNA Plant Technology and Koppers Corporation, offers an excellent compensation and benefits package. We are an exciting and growing organization located 15 minutes from Center City, Philadelphia. Please send your resume and salary history to:

Human Resources

**AGRI-DIAGNOSTICS ASSOCIATES**

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Cinnaminson, NJ 08077

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**SCIENCE MAGAZINE**

NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
The Department of Immunology and Infectious Diseases at Pfizer Central Research has a challenging position available in its antibiotics research and discovery group. You must have a PhD in Microbiology or Biochemistry and relevant postdoctoral training in antibacterial research. Previous experience in the discovery and development of new antimicrobials for medical use is highly desirable, but not essential. You will become part of a multidisciplinary project team involved in the discovery and development of agents with contemporary mechanisms of action for the treatment of infectious diseases. Duties will include establishing a laboratory, supervising assistant scientists and contributing to planning of research programs and the advancement of product candidates in the infectious diseases area.

In addition to a stimulating research environment and an excellent opportunity for professional recognition and advancement, we offer a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, Connecticut 06340. An equal opportunity employer.
POSTDOCTORAL POSITION in electrophysiology available immediately in our laboratory conducting research on (i) receptor-effector coupling and receptor expression in Xenopus oocytes and (ii) short- and long-term changes in synaptic efficiency in brain slices. A Ph.D. in chemistry, biochemistry, or molecular biology techniques desirable. Competitive salary commensurate with experience. Send curriculum vitae and three letters of reference to: Dr. Jeffrey L. Elvehon, Wayne State University School of Medicine, 3333 John R. Road, Detroit, MI 48201. Wayne State University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available in AIDS-related research and psychoneuroimmunology. Faculty: Cenic, Lautenslager, Mazze, Pennington, and Reit. Applications accepted until all positions are filled. Send curriculum vitae, transcripts, and three letters of reference to: Program Director, UHSC, Box 2C68R, 4200 East 9th Avenue, Denver, CO 80262. Telephone: 303-720-7212. An Affirmative Action/Educational Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE position is available in NMR spectroscopy to perform NMR data collection and analysis for a project involving studies on membrane proteins. A Ph.D. in chemistry or related field is required. Experience with NMR spectroscopy of membrane proteins desirable. Experience with X-ray crystallography helpful. Send curriculum vitae and a letter of interest to: Dr. Joseph M. Galli, Department of Molecular Biology, University of Virginia, 290 B Little Street, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS are available in our laboratory to work on projects involving the study of gene expression and protein function. A Ph.D. in molecular biology, biochemistry, or related field is required. Experience with molecular biology techniques desirable. Send curriculum vitae and three references to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in biophysics are available immediately in our laboratory. A Ph.D. in biophysics or a related field is required. Experience in structural biology or related fields desirable. Send curriculum vitae and three letters of reference to: Dr. J. M. D. Oakley, Department of Biophysics, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in molecular immunology and opsonic-antibody interactions are available immediately. A Ph.D. in immunology, biochemistry, or related field is required. Experience in cell biology and molecular biology techniques desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in molecular biology are available immediately in our laboratory. A Ph.D. in molecular biology or a related field is required. Experience in molecular biology techniques desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in cell biology and neuroanatomy are available immediately in our laboratory. A Ph.D. in cell biology or a related field is required. Experience in electron microscopy, in situ hybridization, and immunohistochemistry desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in molecular biology and genetics are available immediately in our laboratory. A Ph.D. in molecular biology or a related field is required. Experience in molecular biology techniques desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in genomics and bioinformatics are available immediately in our laboratory. A Ph.D. in molecular biology or a related field is required. Experience in genomics and bioinformatics desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

POSTDOCTORAL POSITIONS in molecular biology and genetics are available immediately in our laboratory. A Ph.D. in molecular biology or a related field is required. Experience in molecular biology techniques desirable. Send curriculum vitae and three letters of reference to: Dr. M. J. Brown, Department of Microbiology and Immunology, University of Virginia, PO Box 8021, Charlottesville, VA 22901.

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The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, Division of Basic Research.

This is a Senior Executive Service position in the career civil service, with an annual salary range of $68,700 to $74,900. Physicians may also be eligible for a Physician’s Comparability Allowance of up to $20,000 per year. The position is located in the National Institute on Alcohol Abuse and Alcoholism, Rockville, Maryland.

The Director, Division of Basic Research, plans and administers programs of basic research on the causes and diagnosis of alcohol abuse and alcoholism, including research in the neurosciences, biological, biochemical, behavioral, and pharmacological sciences primarily using research grants to medical schools, universities, and private organizations. The Director is responsible for the development of research plans and the formulation of budget requests, and reviews and approves program plans and justifications for each of the Branches and programs within the Division of Basic Research. The Director is responsible for the implementation of Institute policies within the Division and nationwide as they affect the research programs of the Division.

Minimum qualifications requirements include the following: a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor’s or higher degree in an academic field related to the health sciences pertinent to the work of the position. In addition, candidates should possess progressively responsible experience in the scientific administration of basic research. Professional background and/or education must also include an extensive knowledge of research methodology, and a knowledge of one or more scientific disciplines that are relevant to research on alcohol abuse and alcoholism. Candidates must possess experience in the management of programs, demonstrating competence to assume leadership in planning, staffing, directing, coordinating and allocating resources, and other responsibilities associated with executive leadership of a major national program. All candidates must have had responsible professional experience at the senior level (GS-15 or equivalent).

Further information about the position and qualifications may be obtained by contacting Ms. Leslie Everheart at (301) 443-5030. Applications (Application for Federal Employment, SF-171) 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 15C26, Rockville, Maryland 20857. Complete application material (including the SF 171) must be postmarked by July 21, 1989.

Applications from women and minority group members are especially solicited.

The Alcohol, Drug Abuse, and Mental Health Administration is an Equal Opportunity Employer.

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**Senior Scientist**

Apply Your Knowledge Of Chromogenic And Immunological Assays And Make A Significant Difference In Infectious Disease Research.

Ortho Diagnostic Systems, Inc., a Johnson & Johnson company, is known throughout the world for the development and manufacture of medical diagnostics, reagents, immunological and related products. We are currently seeking a Senior Scientist who shares our dedication in this field.

This position will utilize your working knowledge of chromogenic and immunological assays as you design, perform and analyze experiments in the area of hemostasis. You'll be expected to interact closely with departmental staff, supervise bench scientists and act as liaison with other departments. Excellent oral and written skills are necessary in order to communicate effectively as well as maintain accurate records and lab notebooks.

To qualify, you must have a PhD with 1-3 years' experience in Biochemistry, Clinical Chemistry, Physiology/Biology or a related field. Specific training in isolation of proteins or coagulation proteins and column chromatography, as well as experience with monoclonal antibodies, protein peptides or HPLC in developing immunoassays, is essential.

Our Raritan, NJ headquarters is conveniently located within an hour's drive of New York and Philadelphia. In addition to a very competitive salary, we offer the outstanding Johnson & Johnson benefits package, including dental plan, tuition reimbursement and an on-site Wellness Center. To help us continue to play a vital role in enhancing world health, send your resume, in confidence, to: Human Resources Dept. JC.
Scientist

Challenging Bacterial Vaccine Research Projects

Lederle Biologicals, a division of the internationally reputed Lederle Laboratories, has an excellent opportunity for a postdoctoral scientist capable of researching the isolation and biochemical/immunological characteristics of bacterial protein antigens. You must have a PhD in Microbiology, Biochemistry or Molecular Biology and training in various biochemical and immunological techniques.

We offer a state-of-the-art facility, competitive salary and excellent benefits. Please forward your resume with salary requirements, in confidence, to:
IGEN Inc. is seeking to appoint post-doctoral and Masters level scientists with experience in any of the following areas to join its expanding program of research and development in catalytic antibodies:

- Synthetic organic chemistry
- Computational chemistry
- Molecular Biology
- Biosensors

Candidates with outstanding qualifications in any of these areas are invited to apply.

*IGEN Inc. is a biotechnology company located in Maryland, close to Washington, DC and specializing in the development of fundamental new diagnostic technologies and in the pharmaceutical and therapeutic applications of catalytic antibodies (Abzymes™).*

For confidential consideration, please send your curriculum vitae to IGEN Inc., Human Resources Manager, 1530 East Jefferson Street, Rockville, MD 20852.

Informal inquiries about any of the above positions should be directed to Dr. Anthony R. Rees, Director of the Catalytic Antibody Program, at 301/984-8000.

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NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036
POSTDOCTORAL POSITION: A postdoctoral position is available immediately to study the role of receptors in morphogenetic growth hormones. Background in one or several of the following areas required: neuropharmacology, neuroendocrinology, car- 
cinogenesis, androgen DNA, or lymphoma. Experience with analytical procedures (HPLC, RIA) 
desired. Starting salary: $17,250 plus benefits, 12-month full-time appointment, annual renewals required. Apply 
to: Dr. H. M. Rutledge, Section Head, Laboratory of Zoology, College of Veterinary Medicine, University of 
Tennessee, P.O. Box 1071, Knoxville, TN 37901-1071. Review of applications begins January 31.

POSTDOCTORAL POSITIONS available immediately in molecular and cellular biology in an environ- 
montion of Dr. Helene S. Smith (gene alterations in human breast cancer; background in molecular biology, 
biochemistry and genetics preferred). Apply to: Dr. Brian K. Davis (effect of HIV infection on hemopoiesis; back- 
ground in molecular virology or hemopoiesis preferred). Send resume, description of relevant experience, and 
names of three references to: Ms. Louise Robe-Stros- 
cchein, Geraldine Brush Cancer Research Institute, 
Medical Research Institute, 2200 Webster Street, San 
Francisco, CA 94115.

POSTDOCTORAL RESEARCH ASSOCIATE 
A position is available for an individual with a Ph.D. and/or M.D. background in molecular biology to 
study genome structure, function, and evolution around the alpha-globin gene complex. The position, under 
the direction of Dr. Charles R. Shiodman of the Department of Molecular Hematology, is in the Department of Pediat- 
rics and the Medical Genetics Birth Defects Center at Cedars-Sinai Medical Center, both of which are under 
the direction of Dr. David F. Reitnouer. Send curriculum vitae and names of three references to: Dr. M. L. 
Lapierre, University of California, Los Angeles, CA 90024.

POSTDOCTORAL RESEARCH ASSOCIATE 
PITUITARY IRRADIATION FOR THE TREATMENT OF 
CANCER: The Department of Radiation Oncology of 
the University of Wisconsin Medical School, Madison, 
WISCONSIN, invites applications for the position of 
POSTDOCTORAL RESEARCH ASSOCIATE. 
Applicants should have a Ph.D. or M.D. degree and research experience in the field of cell culture and 
cancer. The appointment will be for one year, beginning in June or later of 1989, and is renewable. 
Salary is $27,834. Interested individuals should send curriculum vitae and names of three references 
to: Dr. R. W. Beck, University of Wisconsin, Madison, WI 53792. 

POSITIONS OPEN

POSTDOCTORAL POSITION: Investigate the role of 
peptide hormones, androgens, and ovarian steroids 
in the control of estrous cycle and pregnancy in the 
woodpecker woodpecker. The position is available 
January 1, 1989, and is open to women and men.

APPRENTICESHIP PROGRAM: The Apprentice 
Program is an opportunity for individuals who 
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in a skilled trade while earning a wage.

POSTDOCTORAL POSTDOCTORAL POSTDOCTORAL POSTDOCTORAL POSTDOCTORAL POSTDOCTORAL POSITIONS

POSTDOCTORAL RESEARCH ASSOCIATE: Full-time postdoctoral research position is immediately 
available in the Orthopedic Research Laboratory/Bow- 
man Gray School of Medicine of Wake Forest Universi- 
ty. Applicant should hold a Ph.D. and have background and experience in analyzing lymphocytes. Send 
curriculum vitae and names of three references to: Dr. George A. Gristina, M.D., D.Sc., Orthopaedic Surgery Res- 
earch Institute, Bowman Gray School of Medicine, Winston-Salem, NC 27103.

POSTDOCTORAL RESEARCH ASSOCIATE: Full-time position available, GS-11/12, U.S. Department of Agri- 
culture National Soil Research Laboratory, Soil 
Science Division, National Soil Research Laboratory, 
Ames, Iowa. Duties will be to conduct research on 
microbial diversity and function in soil environments. 
Salary range is $26,860 to $40,580. Applications should 
be submitted to: Mr. Dennis A. Kennedy, Office of Resource Conservation, PO Box 1001, U.S. 
Department of Agriculture, Washington, DC 20250.

POSTDOCTORAL RESEARCH ASSOCIATE: U.S. Department of 
Agriculture, ARS, Animal Disease Research Laboratory, 
Beltsville, Maryland. The position is available immediately to carry out research on the biology and 
epidemiology of exotic animal diseases. Salary is negotiable. Interested individuals should 
send their curriculum vitae to: Dr. Robert J. Meyer, 
Animal Disease Research Laboratory, Beltsville, 
Maryland 20705.

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Maryland 20705.
EnSys Inc.

EnSys Inc. is developing novel immunoassay test kits for the environmental industry. Situated in Research Triangle Park, North Carolina we offer competitive salaries, benefits, and equity participation. EnSys is currently seeking to fill the following senior technical positions:

GROUP LEADERS

Analytical Chemistry

Responsible for the development of immunoassay-compatible sample extraction methods. Requires a Ph.D. in Analytical Chemistry or related field and experience in developing environmental testing methods.

Serology

Responsible for the development of anti-hapten polyclonal and monoclonal antibody reagents. Requires a Ph.D. in Immunology or a related field, experience with ELISA and/or other immunoassay techniques and characterization of anti-hapten immunoblotting.

BioOrganic Chemistry

Responsible for the synthesis and characterization of hapten-conjugates for immunoassay development. Requires experience in the synthesis of immunogens and enzyme conjugates.

SENIOR SCIENTIST

Product Development

Responsible for the development of immunoassay technology for environmental ligands. Requires a Ph.D. in Biochemistry or a related field and immunoassay development experience. Familiarity with CAELUSA, immobilization chemistry, and affinity chromatography is desirable.

Forward resumes to: Dr. S. Friedman, EnSys Inc., P.O. Box 14083, Research Triangle Park, North Carolina 27709.

The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug Inc., announces an opening for a Research Biologist in the Drug Metabolism & Pharmacokinetics Department at its Rensselaer, New York facility.

An important responsibility of this position will be to conduct in vitro microsomal enzyme transformation studies to elucidate rates of metabolism and metabolic profiles of discovery compounds. Additional responsibilities will include the development and application of chromatographic and enzymatic assays and the chromatographic separation of metabolic products.

The successful candidate must have a BS and/or MS degree in Chemistry, Biology or Biochemistry. A minimum of two years experience with enzyme assay techniques and chromatography (HPLC) is required. Experience with tissue culture and/or organ perfusion is desirable.

Sterling Drug Inc. offers competitive salaries and a comprehensive benefits program, along with outstanding career opportunities for personal and professional growth. For confidential consideration, please forward your resume with salary history/requirements to:

Jo Ann Fitzgerald
Employee Relations Administrator

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A Division of Sterling Drug Inc.
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Equal Opportunity Employer M/F/H/V

The Roche Institute of Molecular Biology invites applications and nominations for Head—Department of Biochemistry. This department is one of four in the Institute: the others are Neurosciences, Cell and Developmental Biology and Molecular Oncology and Virology. When fully staffed, this department will consist of 9 independent investigators, 25 postdoctoral fellows and a support staff of approximately 15.

Applicants should have internationally recognized research programs in biochemistry and molecular biology. The major role of this individual is to carry on a vigorous and meritorious research program. This will be fully supported by the Institute, including laboratory assistants and several postdoctoral fellows. As Department Head, the individual will also be responsible for the administrative affairs of the Department. The position is ideally suited for a scientist whose primary goal is to carry out innovative research in a stimulating environment with minimal administrative duties and no grant or teaching responsibilities.

Our convenient location facilitates participation in New York City's rich cultural and intellectual life. Adjunct appointments at metropolitan area universities are encouraged. For consideration, please submit your curriculum vitae and bibliography, statement of research interests and names of three professional references, to Dr. Nathan Brat, Biochemistry Search Committee, Roche Institute of Molecular Biology, Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Institute of Molecular Biology
Hoffmann-La Roche Inc.

DEPARTMENT HEAD

DEPARTMENT OF BIOCHEMISTRY

The Roche Institute of Molecular Biology invites applications and nominations for Head—Department of Biochemistry. This department is one of four in the Institute: the others are Neurosciences, Cell and Developmental Biology and Molecular Oncology and Virology. When fully staffed, this department will consist of 9 independent investigators, 25 postdoctoral fellows and a support staff of approximately 15.

Applicants should have internationally recognized research programs in biochemistry and molecular biology. The major role of this individual is to carry on a vigorous and meritorious research program. This will be fully supported by the Institute, including laboratory assistants and several postdoctoral fellows. As Department Head, the individual will also be responsible for the administrative affairs of the Department. The position is ideally suited for a scientist whose primary goal is to carry out innovative research in a stimulating environment with minimal administrative duties and no grant or teaching responsibilities.

Our convenient location facilitates participation in New York City's rich cultural and intellectual life. Adjunct appointments at metropolitan area universities are encouraged. For consideration, please submit your curriculum vitae and bibliography, statement of research interests and names of three professional references, to Dr. Nathan Brat, Biochemistry Search Committee, Roche Institute of Molecular Biology, Nutley, New Jersey 07110. We are an equal opportunity employer.

Roche Institute of Molecular Biology
Hoffmann-La Roche Inc.

RESEARCH CHEMIST

(Molecular Immunologist)

Biological Resources Branch
National Institute of Allergy and Infectious Diseases
National Institutes of Health

Position available immediately for qualified Research Chemist (Molecular Immunologist) to work in the Biological Resources Branch, NIAID, NIH. Candidate should be interested in studies on molecular mechanisms in immunology such as recognition/activation and antigen processing/presentation. Administrative duties include responsibility for peptide synthesis unit for which no experience is required. Support staff for research and peptide synthesis will be provided.

Salary: $41,121 +

Qualified and interested candidates should send Curriculum Vitae, Application for Federal Employment (SF-171), and names and addresses of three (3) references to:

John E. Coligan, Ph.D.
Chief, Biological Resources Branch
NIAID, NIH
Bldg. 4, Room 413
9000 Rockville Pike
Bethesda, MD 20892
301-496-8247

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Positions Open

Senior Scientist to perform as technical specialist for research and development programs, including substrates, molecular genetics and materials technology in Thin Film Division. Duties include: work from previously initiated studies or propose new ideas for investigation; develop briefs and present proposed same to management; plan and conduct analytical and/or experimental studies for validity of ideas and develop new theories; develop complex procedures and prepare criteria for special test equipment; coordinate and direct tests conducted by subordinates; evaluate data for significance and recommend term of study, if appropriate; prepare periodic and final reports; consult with organizations in interpretation and application of technology; advise others and guidance to other organizations; confer with recognized specialists; participate in symposia. Ph.D. in physics required as well as 1 year of experience in job offered or 1 year of experience as research assistant. Must have conducted original research in amorphous semiconductor materials and interfaces as demonstrated through at least one patent or publication in one professional journal. Forty hours, 8:00 a.m. to 5:00 p.m., $40,000 per year. Send résumé to: The Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123. Ref #4273244. Employer-paid ad.

University of Maryland School of Medicine Department of Microbiology and Immunology Tenure-track Position available for a Ph.D. or M.D. with interest in molecular biology of the immune system, particularly in the fields of regulation of gene expression and molecular genetics of lymphocyte receptors. The appointee is expected to establish an independent research program within an expanding academic department which is research active in molecular and cellular immunology, immunopathology of viral infections including HIV, and pathogenesis of rickettsial and parasitic diseases. Send curriculum vitae, description of research interests, and references to: Dr. Jan Cerny, Department of Microbiology and Immunology, University of Maryland School of Medicine, 660 West Redwood Street, Baltimore, MD 21201.

University of Minnesota Vice President for Institute of Agriculture, Forestry and Home Economics and Director, Agricultural Experiment Station The University of Minnesota invites nominations and applications for the position of Vice President and Vice Provost for the Institute of Agriculture, Forestry and Home Economics (IAHFHE) and Director of the Agricultural Experiment Station. The Vice President serves as the Chief Executive Officer of the Institute and as the Director of the Agricultural Experiment Station (AES). Candidates for this position should meet the following requirements: an earned doctorate; a recognized record of productive research, teaching, and scholarly activity which merits appointment as a tenured professor in an academic department of the University; a demonstrated commitment to equal opportunity and affirmative action; a demonstrated commitment to the mission of a modern land-grant university; administrative and fiscal management experience, including research program administration, preferably in an academic institution; strong oral and written skills; the ability to develop and maintain effective relations with related units within the University, with private and federal research funding agencies, and with a diverse cross section of people from rural and urban Minnesota; and an ability to delegate and work effectively in a decentralized administrative structure.

Nominations must be postmarked by 30 June 1989; applications consisting of a letter expressing interest, curriculum vitae, and names and addresses of at least three references, must be postmarked by 21 July 1989. Send to: Dr. P. T. Magec, Chair, Search Committee for the Vice President, Institute of Agriculture, Forestry and Home Economics, University of Minnesota, 428 Morrill Hall, 100 Church Street SE, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Education and Employer and specifically invites and encourages applications from women and minorities.

Wetlands Ecologists: Duke University School of Forestry and Environmental Studies invites applications for two full-time research positions beginning 1 July 1989. Candidates should have a Ph.D. with postdoctoral experience. One researcher will study cattail invasions in the Everglades. Another position focuses on phosphorus cycling in the Everglades. Send curriculum vitae, selected reprints, and at least three letters of recommendation to: Dr. Curtis J. Richardson, Director Wetland Center, School of Forestry and Environmental Studies, Duke University, Durham, NC 27706. Duke University is an Equal Opportunity/Affirmative Action Employer.

Positions Open

Tenure/tenure-track faculty positions in molecular and cell biology at the University of Minnesota Applications are invited for positions of Assistant Professor (tenure-track) in the Department of Pharmacology and Medical Sciences. Interested candidates are expected to establish an outstanding independent research program in the area of molecular and cellular pharmacology and to participate in departmental teaching responsibilities. Ph.D. or M.D. in pharmacology, biochemistry, cell biology, or related field, or an M.D., and have 2 years of postdoctoral experience. Candidates with a strong research background and experience using recombinant DNA technology for studying pharmacological and molecular biology of the CNS are preferred. Applicants must have demonstrated involvement in research quality published in peer-reviewed journals. Appointment as associate professor (tenured) may be considered for applicants with professional distinction in published research and ability to attract extramural grant support, and who have demonstrated effectiveness in teaching.

Applications should send curriculum vitae, significant reprints, a statement of research plans, and three names for reference purposes, to Dr. William A. Regehr, Chairperson of Search Committee, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 425 Delaware Street S.E., Minneapolis, MN 55455. Deadline for receipt of applications is 31 August 1989. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

Vice President and Vice Provost for the Health Sciences University of Minnesota The University of Minnesota invites applications and nominations for the position of Vice President and Vice Provost for the Health Sciences (VPHFS). The Vice Provost is a member of the University's central administration, and is the chief academic and planning officer for the health sciences academic units on the Twin Cities Campus, the University Hospital and Clinic, and the School of Medicine on the Duluth Campus. Candidates for this position should have the following attributes: a requisite terminal degree in a health sciences related field; qualifications that merit appointment as a tenured professor in an academic department within the health sciences; a distinguished record of scientific and administrative achievement in a health sciences field; a demonstrated commitment to research and instruction in the health sciences; an understanding of the political issues and processes necessary at state and federal levels to achieve success in obtaining fiscal support; a demonstrated commitment to affirmative action; effective communication and the interpersonal skills necessary to achieve the tasks outlined above; an appreciation of community concerns relating to health care issues; sensitivity to major issues confronting multidisciplinary health sciences units, and a willingness to work with the University Administration to effect their outcome.

Nominations must be postmarked by 30 June 1989; applications, consisting of a letter expressing interest, curriculum vitae, and names and addresses of at least three references, must be postmarked by 30 July 1989. Send to: Richard S. Caldecott, Chair, Search Committee for Vice President for Health Sciences, University of Minnesota, 428 Morrill Hall, 100 Church Street SE, Minneapolis, MN 55455. Telephone: 612-624-9699. The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

Systems Ecologist Oceanographic Research Facility's Division of Applied Biology is seeking an experimentally oriented wetland/estuarine ecologist with primary interests in productivity, as related to marine and/or succession as it relates to environmental restoration. The position is open at the assistant scientist level. A current curriculum vitae, names of three references, and one to two pertinent publications should be sent to: Dr. Kimon Bird, Harbinger Oceanographic Institute, Inc., 5600 Old Dixie Highway, Fort Pierce, FL 34946. Equal Opportunity Employer/Affirmative Action. Resumes will be accepted until 30 June 1989.

Research Grants

Alzheimer's disease Research Grant applications are being accepted by the American Health Assistance Foundation. Grants are for 2 years, $100,000 maximum per year, renewable. Deadline date: 31 October 1989. Write to: American Health Assistance Foundation Alice Massa, Research Grants Coordinator 15825 Shady Grove Road, Suite 140 Rockville, MD 20850

Coronary Heart Disease Research Grant applications are being accepted by the American Health Assistance Foundation. Grants are for 1 year, $25,000 maximum, renewable. Deadline date: 31 October 1989. Write to: American Health Assistance Foundation Alice Massa, Research Grants Coordinator 15825 Shady Grove Road, Suite 140 Rockville, MD 20850

Glaucoma Research Grants applications are being accepted by the American Health Assistance Foundation. Grants are for 1 year, $25,000 maximum, renewable. Deadline date: 30 November 1989. Write to: American Health Assistance Foundation Alice Massa, Research Grants Coordinator 15825 Shady Grove Road, Suite 140 Rockville, MD 20850

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