PERSONNEL PLACEMENT

POSITIONS WANTED

Immunologist Ph.D. December 1988. Experience: in vitro regulation of and biosynthesis for monokine and lymphokine production of growth factors. biosynthesis receptors; protein purification, column chromatography, SDSPAGE, etc.; theory and experience with DNA and RNA manipulation; radioisotope probes. Seeking a position in productive, innovative lab utilizing molecular genetics in immune system ligand/receptor biology and structure-function; transgenic animal models, retroviral biology and transfection vectors; live viruses; regulated gene expression. Box 181, SCIENCE.


Plant Tissue Culturist, M.S. Research experience in foliage and wood; meristem, callus, and embryo culture, somatic embryogenesis, protoplast culture. Management experience in mass production. Independent research experience in industry/academia. Box 182, SCIENCE.

Thirty-one-year-old recently graduated scientist (Danish degree) with a neuroscience background at Geneva, Oregon, looking for a job as Molecular Biologist. Specialized in genetics and molecular biology techniques. February project involved 17-ethinyl transformation on Drosophila melanogaster. Box 172, SCIENCE.

ACADEMIC POSITION RESEARCH BIOCHEMIST

With background in carbohydrate/protein biochemistry with an emphasis in animal cell adherence relative to developmental biology. Additional skill/knowledge of molecular biology desirable. Individual will participate in teaching science, and research. Salary commensurate with experience. Send curriculum vitae and three letters of reference to: Ms. Teresa Martin, The Ohio State University, Otological Research Laboratories, 456 West 10th Avenue, Room 4331, Columbus, OH 43210.

ASSISTANT PROFESSOR—MOLECULAR ENDOCRINOLOGY—Applications are invited for a tenure-track position. The successful applicant will participate in the Department of Animal Science and Agricultural Biochemistry at the University of Delaware. Applicants must have a Ph.D. and postdoctoral experience in endocrinology and molecular biology. Strong interest and expertise in using molecular approaches to study hormones/receptors that affect growth and/or reproduction of poultry. The individual should have a sincere interest in research and teaching, and be capable of cooperating with other department members. Send curriculum vitae, research interests and four letters of recommendation by 15 January 1989 to: Dr. Larry A. Cogburn, Chair of Faculty Search Committee, Department of Animal Science, Room 940, Townsend Hall, University of Delaware, Newark, DE 19717-1005. The University of Delaware is an Equal Opportunity Employer which encourages applications from qualified minority groups and women.

DEPARTMENT OF BIOLOGY ASSISTANT PROFESSOR POSITION

The Department of Biology, University of Wisconsin Center System, invites applications for a full-time, tenure-track position at the assistant professor level on the Rock County Campus, Janesville, beginning fall 1989. A doctorate is required with emphasis in genetics and bacteriology and ability to teach introductory microbiology, botany, and genetics. Salary commensurate with experience. Send curriculum vitae and three letters of reference to: Dr. John Schwartz, Chair, Department of Biology, University of Wisconsin—Marathon, 518 South 7th Avenue, Wausau, WI 54401 by 15 February 1989. Applicants are encouraged to indicate affiliation with an Equal Opportunity Institution.

PERSONNEL PLACEMENT

POSITIONS OPEN

DEPARTMENT OF BIOLOGY ASSISTANT PROFESSOR POSITION

The Department of Biological Sciences, University of Wisconsin Center System, invites applications for a full-time, tenure-track position at the assistant professor level on the Marathon County Campus, Wausau, WI, anticipated to open in the fall of 1989. Quality teaching and research responsibilities. Additional offsets may be expected. Applicants should have a Ph.D. and be qualified to teach zoology and human physiology and anatomy. Opportunities may become available for additional offsets in candidate's area of interest including ecology, limnology, or genetics. To apply, send curriculum vitae, and three references to: Dr. Koby Crabtree, Chairman, Department of Biological Sciences, University of Wisconsin Center—Marathon County, 518 South 7th Avenue, Wausau, WI 54401. Application deadline: 15 January 1989. The University of Wisconsin Centers particularly encourage applications from women and minorities.

ASSISTANT PROFESSOR OF ANATOMY

The Department of Anatomy, The Ohio State University, is seeking candidates for a tenure-track position at the assistant professor level. The department has strong research programs in neuroscience and cell biology. We seek candidates with a background in cellular or molecular approaches. Candidates must have a Ph.D. or M.D., the ability to establish a strong independent research program, and at least 2 years of postdoctoral experience. Teaching responsibilities will be for neuroscience for professional and graduate students. We especially encourage minority applicants to apply. Send curriculum vitae and three letters of reference to: Dr. James S. King, Ph.D., Professor and Chairman, Department of Anatomy, The Ohio State University, 333 West 10th Avenue, 4034 West, Columbus, OH 43210—1293. The Ohio State University is an Equal Opportunity Employer.

ASSISTANT PROFESSOR—ANATOMY: Full-time tenure-track. Sought interested in the developmental biology of connective tissues in the broadest sense; approaching problems of differentiation and morphogenesis using techniques of molecular and structural biology. Special attention given to candidates who use techniques of high-resolution imaging, image analysis, and contemporary molecular and cell biology in their research. The University of New Mexico enforces applications from minorities and women. Nominations and applications, complete with curriculum vitae and names of three references, should be sent to: Dr. J.A. Kemper, Chairman, Department of Anatomy, University of New Mexico Medical Center, Albuquerque, NM 87131. Affirmative Action/Equal Opportunity Employer.


ASSISTANT PROFESSOR OF BIOLOGY, Tenure-track position, effective 1 September 1989. Ph.D. required. Teach upper-division courses in specialization area(s), as well as a vertebrate physiology; additional interests in development and/or invertebrate zoology desirable. Teaching in interdisciplinary programs possible. We encourage research involving undergraduate research. Send curriculum vitae, summary of academic training, a statement of teaching and research interests and career goals, three letters of reference, and a vita to: Dr. John Shepherd, Biology Department, College of Liberal Arts, Mercer University, Macon, GA 31207. Women are encouraged to apply. Equal Opportunity Employer. Deadline: 20 January 1989.
POSITIONS OPEN

ASSISTANT PROFESSOR

EVOLUTIONARY BIOLOGY

A tenure-track position is available in the newly organized Department of Evolutionary Ecology and Evolutionary Biology at Rice University for an evolutionary biologist with strengths in both theoretical and empirical investigations of field problems. The successful applicant will be expected to develop an internationally competitive research program and to participate in undergraduate and graduate instruction. An interest in interacting with faculty members outside the applicant's specialty is highly desirable. Interests in the department include global ecology, population and community ecology, and evolution of social behavior. A doctoral or postdoctoral experience is required. A resume, a brief outline of research plans, and three letters of recommendation should be sent to: P. A. Harcombe, Chair, Department of Evolutionary Ecology and Evolutionary Biology, Rice University, P.O. Box 1892, Houston, TX 77251. Applications should be received by 15 January 1989. Rice University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR

MOLECULAR BIOLOGY/GENETICS

The Brigham and Women's Hospital and Harvard Medical School are seeking applicants at the level of assistant professor in the Department of Medicine in the general area of genetics, immunology, or another aspect of molecular biology, including development. Candidates should possess an M.D., M.D./Ph.D. or Ph.D. and have demonstrated significant scientific accomplishments and promise. The Medical Department system is interested in making the successful candidate to embark on a vigorous, independent research program. Applicants should have curriculum vitae and bibliography, a brief statement of research interests (less than 500 words), and, three letters of recommendation sent to: William W. Chin, M.D., Head, Department of Medicine, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.

Brigham and Women's Hospital and Harvard Medical School are Equal Opportunity/Affirmative Action Employers.

UNIVERSITY OF WISCONSIN-PARKSIDE

ASSISTANT PROFESSOR

TWO ASSISTANT PROFESSORS

IN BIOLOGICAL SCIENCES

The University of Wisconsin-(UW)–Parkside Biological Sciences Department, Center for Excellence Innovation, Immunology, Infectious Diseases and Molecular Biology and a M.S. program in applied molecular biology with emphasis on biotechnology. The Department of Biological Sciences invites applications for one of its 12-person faculty. The successful candidate to participate in undergraduate and graduate programs and should share our philosophy of excellence in research, teaching, and service.

1. MOLECULAR BIOLOGIST/MICROBIOLOGIST: with proven competence in applying the technical skills of molecular biology and biotechnology. The research program can be in any microbial system.

2. BIOLOGIST: the field of specialization is open (e.g., development, molecular, genetics, immunology, physiology, physiological or molecular ecology, virology) however, research focus is to be at the level of whole organisms. Competence in use and applications of the latest techniques of the subspecialty is expected. Strength in quantitative approaches to biology is desired.

Ph.D. is required. Candidates with postdoctoral experience are preferred. Women and minorities are encouraged to apply. Applications, including a letter of interest, curriculum vitae, a brief summary of research goals, repre sentative list of publications, three letters of recommendation, and the names of three referees should be sent to the address given below. Review of applications will begin on 16 January 1989 and continue until the positions are filled. Drs. S. R. Datta, Chairperson, Biological Sciences Department, University of Wisconsin–Parkside, P.O. Box 2000, Kenosha, WI 53141. Telephone: 414-553-2469/553-2527.

The University of Wisconsin–Parkside is an Equal Opportunity/Affirmative Action Employer.

HARVARD UNIVERSITY

ASSISTANT PROFESSOR

CELLULAR AND DEVELOPMENTAL BIOLOGY

The Department of Cellular and Developmental Biology intends to make an appointment at the assistant professor level effective September 15, 1989. Our department covers a broad range of topics in cellular biology, developmental biology and molecular genetics. We are seeking outstanding candidates in any of these fields. We particularly encourage applications in the areas of vertebrate development, neurobiology, and plant molecular biology. However, we will consider exceptional candidates for any of these areas. We encourage applications from women and minority groups. Applications should include curriculum vitae, reprints of publications, a statement of current research, and statements of research plans. Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than 1 February 1989 by:

Diane Baldwin, Administrator
CDB Search Committee
Cellular and Developmental Biology
The Biological Laboratories
Harvard University
16 Divinity Avenue
Cambridge, MA 02138
Telephone: 617-495-8416

Harvard University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR

PHYSIOLOGY/PEDIATRICS

(CRITICAL CARE MEDICINE)

EASTERN VIRGINIA MEDICAL SCHOOL

The Physiology/Pediatrics program is seeking to fill a faculty position at the assistant/associate professor level beginning July 1989 or sooner. Applicant expected to have an independent research program and to interact with ongoing research in the department of pediatrics. Candidates should have a Ph.D. in physiology, and demonstrated abilities in research and teaching. Send a letter of application, curriculum vitae, statement of research plans, and three names of referees to: Dr. R. De Pepe, Chairman, Department of Physiology, P.O. Box 800, EVMS, Norfolk, VA 23501. EVMS is an Affirmative Action/Equal Opportunity Employer and encourages applications from protected and minority groups.

ASSISTANT OR ASSOCIATE PROFESSOR

PHYSICAL SCIENCES EDUCATION

Teach courses in one of the departments of the Physical Sciences area, engage in scholarly activities, and assist with development and implementation of an interdisciplinary program in Physical Sciences Education. Appointment at rank appropriate to qualifications ($27,588 to $48,204). Applicant must have a Ph.D. in physics, mathematics, computer science, or related sciences, and broad background in the physical sciences and demonstrated emphasis in science education as a primary interest. Applicants are to submit letter of application and curriculum vitae to: Dr. D. G. Crain, Dean, School of Natural Sciences, California State University, San Bernardino, CA 92407. Applications will be accepted until position filled: will not close prior to 1 February 1989. An Equal Opportunity, Affirmative Action Section 504, Title IX Employer.

ASSISTANT/ASSOCIATE PROFESSORS

The Department of Biology at Clarkson University invites applications for two tenure-track positions. Applicants with research interests in (i) quantitative biology or physiology and (ii) neurobiology, biochemistry, cell biology, developmental biology or microbiology at the molecular level will be considered. Clarkson provides competitive salaries and research set-up funds. Clarkson University, a private institution emphasizing engineering and science, is located in a college-town environment of four nearby colleges with a total enrollment of approximately 14,000 students and faculty. Applicants should send a current curriculum vitae, reprints, a statement of research interests, and three letters of recommendation to: A. E. Linkins, Chairman, Department of Biology, Clarkson University, Potsdam, NY 13676. Deadline for application is 20 January 1989 or until positions are filled. Clarkson University is an Affirmative Action/Equal Opportunity Employer.
RESEARCH ASSOCIATE IN DNA SEQUENCING

Amgen, a recognized leader in biotechnology, has an immediate opportunity for a Research Associate in our DNA Sequencing Group. Responsibilities for this position include providing critical support for on-going exploratory research projects.

Candidates for this position must have a BS or MS degree in biochemistry, molecular biology, or a related field. Familiarity with basic laboratory principles related to molecular biology is essential. Experience with DNA sequencing methodologies is highly desirable.

Amgen offer an excellent compensation and benefits package as well as the opportunity to contribute to a team effort in a challenging research environment. If you would like to be a part of a company that places a high priority on human resources please send a resume, in confidence, to:

Recruitment, Dept. #361
Amgen
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

DOW CHEMICAL U.S.A.

The Agricultural Products Department of Dow Chemical U.S.A. has several immediate openings in insecticide discovery research. The successful candidates will join a multidisciplinary team of biochemists, entomologists, molecular biologists and chemists dedicated to the discovery of innovative crop protection practices. This expanding organization is currently located in the San Francisco Bay Area but will relocate in 1991 to larger, newly constructed research facilities in Midland, MI.

BIODIVERSAL CHEMIST: BS or MS in Biochemistry, Organic Chemistry or a related discipline and experience with chromatographic techniques (HPLC and TLC) is required. Prior experience with radioisotopes and personal computers is desirable.

BIOCHEMISTS/PHYSIOLOGISTS: BS or MS in Biochemistry, Pharmacology or a related discipline required. Responsibilities include evaluation of potential crop protection chemicals using biochemical and electrophysiological techniques. Experience with nerve recording techniques, enzyme assays and radioligand binding assays is highly desirable.

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. Employee Relations, Dow Chemical U.S.A., P.O. Box 9002, Walnut Creek, CA 94598-0902. Dow Chemical is an equal opportunity employer.
ASSISTANT/ASSOCIATE PROFESSOR: MOLECULAR BIOLOGY

The Department of Pharmacology at SUNY Health Science Center at Syracuse invites applications for a tenure-track position available from July 1989. Candidates using molecular biological techniques to study cardiovascular cell biology, neurobiology, or membrane transport can be considered. Applicants trained to apply in a research environment with high ethical standards are encouraged. This position is protected for training. Competitive stipends are available. Applications are encouraged from minority and women candidates. Responsibilities include teaching, research, and graduate and undergraduate education. Send a statement of research interests, current vitae, and three letters of recommendation to: Dr. J. Hendrix, Search Committee, Departing Anatomy, University of Arizona, 1501 North Campbell, Tucson, AZ 85724. To ensure consideration, applications should be received by 15 December 1988. Women and minority candidates are encouraged to apply.

ASSISTANT/ASSOCIATE PROFESSORS DEPARTMENT OF ANATOMY UNIVERSITY OF ARIZONA

As part of a University-wide expansion of Biological Sciences and Biotechnology, the Department of Anatomy at the Arizona Health Sciences Center is seeking two new tenure-track faculty members. While preference will be given to applicants with research interests in the cellular or molecular aspects of vertebrate developmental or reproductive processes, candidates interested in other areas also will be seriously considered. Candidates should have pertinent postdoctoral experience. We prefer candidates at the associate level, but the senior appointments may be made for exceptional individuals. Successful candidates will be expected to establish an excellent research program and participate in the instruction of graduate and/or medical students. Submit curriculum vitae, two copies of relevant papers, a detailed description of research goals, and three supporting letters sent to: Dr. Mary C. Hendrix, Search Committee, Department of Anatomy, University of Arizona, 1501 North Campbell, Tucson, AZ 85724. To ensure consideration, applications should be received by 15 December 1988; however, applications will be accepted until the position is filled. The University of Arizona is an Equal Opportunity/Affirmative Action Employer and applications from females and minority groups are strongly encouraged.

BIOCHEMIST UNIVERSITY OF CINCINNATI COLLEGE OF MEDICINE DEPARTMENT OF DERMATOLOGY

Department of Dermatology at the University of Cincinnati College of Medicine seeks Ph.D. as postdoctoral fellow. Experience for isolation and characterization of our natural hormone. Candidate must be knowledgeable about HPLC and similar technologies for purification of prostaglandins and the molecular mechanisms of action and regulation of cellular division. Position immediately available. Submit resume to: James J. Nordlund, M.D., U.C. College of Medicine, Department of Dermatology, 231 Bethesda Avenue, Mail Location #592, Cincinnati, OH 45267-9592. U.C. is an Equal Opportunity Employer.

BIOCHEMIST/MOLECULAR IMMUNOLOGIST

The Department of Biochemistry and Biophysics at Iowa State University invites applications for a tenure- track position. Rank and salary will depend on qualifications. We seek an individual who is highly motivated toward research and shows evidence of a creative research program in molecular aspects of the immune system or other macromolecular recognition systems. Applicants must have a commitment to undergraduate and graduate teaching in general biochemistry/biophysics as well as molecular immunology. Generous start-up funding and space in a new building will be available. Send curriculum vitae, list of publications, two to three representative reprints, a statement of research interests, and three letters of recommendation to: Dr. Jack Horwitz, Department of Biochemistry and Biophysics, Iowa State University, Ames, IA 50011 by 16 January 1989. Iowa State University is an Equal Opportunity/ Affirmative Action Employer, Women, minorities, and other protected groups are encouraged to apply.

BEHAVIORAL NEUROSCIENTIST—UNIVERSITY OF WASHINGTON

Tenure-track faculty position for a person with background and specializations including depression, with specialization in any relevant area, including sensory/perceptual processes, learning/memory, and other fields. The person should be broadly trained in modern neurosciences. The position is targeted for training and as assistant professor appointment. Applications are encouraged particularly from minority and women applicants. Responsibilities include teaching, research, and graduate and undergraduate level research and research in areas appropriate to the individual's field of specialization. Applications, including curriculum vitae, list of publications, research and teaching interests, and four letters of recommendation, should be sent to: Irvin G. Sarason, Chair, Department of Psychology NI-13, University of Washington, Seattle, WA 98105. Priority will be given to applications received before 15 January 1989. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

BIOLOGISTS, Stetson University. Assistant professors. Two tenure-track positions. Begin September 1989. An Associate Professor trained in comparative anatomy and developmental biology. ECOLOGIST with skills in quantitative methods and experimentation. An Independent University of 2000 students committed to excellence in undergraduate education. Both positions provide for inventive course development for non-science majors. Send curriculum vitae, three examples of recent publications, and names and addresses of three references to: Dr. F. M. Knapp, Head, Department of Biology, Stetson University, DeLand, FL 32720.

BIOLGY FACULTY—Lake Forest College. Two positions as assistant or associate professor will be available beginning August 1989 for highly qualified Ph.D.'s interested in teaching and conducting research with undergraduates in the area of cell biology. Research activities should apply molecular and/or cellular approaches to questions in genetics, evolution, or ecology. Teaching responsibilities will include introductory, introductory, nonmajor, or advanced subjects to complement research interests. Start-up support will be available; new research facilities are being constructed. A letter stating teaching and research plans, curriculum vitae, and three letters of reference should be sent by 16 January 1989 to: David Towle, Chairperson, Department of Biology, Lake Forest College, Lake Forest, IL 60045. Applications from minorities and women are encouraged.

Michigan—BIOMATERIALS. Two tenure-track positions are available, at the ASSISTANT and ASSOCIATE PROFESSOR level, in the Department of Biological and Materials Sciences, School of Dentistry. Applicants must have a Ph.D. in materials science or biomaterials science, or in biological science with a strong background in materials science. A strong interest in teaching and research, and experience in teaching and research in dental or biomaterials is preferred, and demonstrated research capabilities are essential. Responsibilities will include teaching biomaterials, interactions with faculty and graduate students in clinical departments, research, and service. Excellent opportunities for interdisciplinary research exist. Rank and salary commensurate with experience. The University is an Equal Opportunity/Affirmative Action Employer and specifically invites women and minority candidates to apply. Send curriculum vitae by 30 January 1989 to: The Biomaterials Search Committee, 2217 School of Dentistry, The University of Michigan, Ann Arbor, MI 48109-1078.

CELL BIOLOGIST, ASSISTANT PROFESSOR. Tenure-track position. To start September 1989. Ph.D. and experience in plant tissue culture and genetic engineering required. Experience in the development of plant tissue culture will be available. Send curriculum vitae, list of publications, two to three representative reprints, a statement of research interests, and three letters of recommendation to: Dr. Jack Horwitz, Department of Biochemistry and Biophysics, Iowa State University, Ames, IA 50011 by 16 January 1989. Iowa State University is an Equal Opportunity/ Affirmative Action Employer, Women, minorities, and other protected groups are encouraged to apply.

CELL BIOLOGIST. The Division of Cardiovascular Disease of the University of Alabama at Birmingham invites applications for a faculty member to direct an investigational research group. Must be expert in cell biology and culture of smooth muscle and endothelial cells. Apply to: Hyper- tension Program of the Division of Cardiovascular Disease, University of Alabama at Birmingham, 145 16th Street Station, Birmingham, AL 35294, Attention: Donna Cline. An Equal Opportunity/Affirmative Action Employer.

CELL PHYSIOLOGIST—BIOMATERIALS ASSISTANT PROFESSOR

The Biology Department at Williams College anticipates opening for a broadly trained cellular physiologist with background in biochemistry to teach courses in professional, biologic, and biochemistry. Interest in endocrino- porinology particularly desirable, but not essential. Ph.D. required. Postdoctoral experience desirable. Faculty are expected to conduct active research programs in which qualified undergraduates may be involved. Start-up funds for research are provided. Position available 1 July 1989. Please send curriculum vitae, statement of research interests, and three letters of recommendation by 31 January 1989 to: Chair, Department of Biology, Williams College, Williamstown, MA 01267. An Equal Opportunity/Affirmative Action Employer. Williams College especially welcomes applications from women and minority candidates.

CHAIR—MICROBIOLOGY AND IMMUNOLOGY

The Oregon Health Sciences University School of Medicine is seeking applicants for the position of Chair of the Department of Microbiology and Immunology. The faculty of this university-based department are engaged in research and in the instruction of medical students, graduate students and fellows. The position requires strong scientific, organizational and administrative skills. Inquiries and applications may be directed to: Bruce Magun, Ph.D., Chairman, Microbiology Search Committee, L 215, Oregon Health Sciences University, Portland. OR 97201. An Affirmative Action/ Equal Opportunity Employer.

CHAIRPERSON, DEPARTMENT OF FORESTRY MICHIGAN STATE UNIVERSITY EAST LANSING, MI 48824

Responsibilities: The Chairperson is the chief administrative officer of the Department of Forestry and reports directly to the Vice Provost and Dean of the College of Agriculture and Natural Resources. The major responsibility of the chairperson is to provide a creative and scholarly environment for faculty, staff and students. The chairperson is responsible for all major programs within the Department of Forestry. (ii) Provide academic leadership to faculty, staff and students in the development and strengthening of departmental programs. (iii) Serve as principal departmental liaison with other units of the university, agencies of government, industry, professional societies and public service groups. Qualifications: (i) Earned doctoral degree, and at least one degree in forestry from an accredited institution. (ii) An established record of academic achievement in teaching, research, extension, international, or public service programs in forestry. (iii) Demonstrated administrative ability, strong leadership qualities and a record of activity in professional and/or public service organizations. (iv) Familiarity with the philosophy and functions of a land-grant university.

Salary: Commensurate with the qualifications. In addi- tion, Michigan State University offers a competitive fringe benefit program. Available: 1 February 1989, or as soon thereafter as possible. Application deadline: 1 January 1989. Women, minority, and other protected groups are encouraged to apply.

Dr. Daniel E. Keithley
Search Committee Chairperson
Department of Forestry
126 Natural Resources Building
Michigan State University
East Lansing, MI 48824
Telephone: 517-383-9640

MSU is an Affirmative Action/Equal Opportunity Institution.
As an industry leader approaching $5 billion in sales, Abbott Laboratories has consistently proven itself capable of meeting the toughest challenges in the healthcare products market. We were the first with a test for the detection of AIDS. And led the way with new products to treat cancer, epilepsy, and cardiovascular ailments. Our commitment to quality research and development makes 1988 another in a long line of record years for Abbott Laboratories. As a result of this consistent growth, we currently seek the following professionals to help us maintain a competitive edge in our Pharmaceutical Products Division.

POSTDOCTORAL FELLOWS (PhD) AND RESEARCH ASSISTANTS (MSc, BS) — As a result of a recent NIAID grant, our National Cooperative Drug Discovery Group requires qualified applicants for AIDS research in the areas of:

Molecular Biology and Protein Biochemistry of HIV — experience in one or more areas of recombinant DNA techniques, expression, protein purification, characterization and refolding, or large scale purification enzymology.

Synthesis of HIV Inhibitors — experience in peptide analog design, peptidomimetics and peptide delivery systems.

Molecular Virology — experience in virus purification, viral component isolation, virus assembly, tissue culture-based virus propagation and inhibitor assays.

X-Ray Crystallography of HIV Proteins — experience in all aspects of protein structure determination by x-ray crystallography.

NMR Studies of HIV Proteins — experience in 2-D NMR techniques.

The Postdoctoral Fellowship program provides advanced research training in state-of-the-art techniques of drug design in a highly integrated and cooperative multidisciplinary research environment. Fellows are expected to publish their results and to attend scientific meetings.

BIOCHEMISTS (PhD) — Experience required in enzyme isolation, purification and characterization, enzyme kinetics, electrophoresis, and study of the interaction of small molecules with proteins. Both regular and postdoctoral positions are available.

CARDIOVASCULAR PHARMACOLOGISTS (PhD) — Will set up pathophysiologic in vivo models. Experience is required in the physiology of the cardiovascular system, conducting original research in systemic hemodynamics and cardiac dynamics. Strong computer and communication skills are required. Both regular and postdoctoral positions are available.

MOLECULAR PHARMACOLOGISTS (PhD/MD) — Will contribute toward making molecular approaches to drug discovery as members of interdisciplinary teams in the areas of virology/infectious disease, oncology, immunology, cardiovascular biology, or neuroscience. Qualifications include a PhD or MD, 3-4 years postdoctoral training, a substantial publication record, and proven research productivity.

BIOCHEMISTS (MS/BS) — Will carry out basic research on the structure and function of enzymes which are candidates for human therapeutic use. BS or MS required in Chemistry, Biology, or Biochemistry along with at least 2-6 years laboratory research experience in three or more of the following areas: enzyme purification, immunology, spectrophotometric assays, electrophoresis, HPLC, peptide mapping, or peptide synthesis.

Headquartered in an attractive suburban location just 30 miles north of Chicago, Abbott provides outstanding corporate backing and a widely recognized scientific environment. We also provide you with an excellent salary and benefits package including profit sharing and stock retirement plans. For consideration, please send a resume indicating position desired and salary history, in confidence to: Patricia Handy, Corporate Placement, Dept. SCI/12-9, Abbott Laboratories, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

ABBOTT LABORATORIES

Quality Health Care Worldwide

1888-1988
POSITIONS OPEN

CHAIRPERSON—BIOLOGY

The Department of Biology, St. Louis University, is seeking a person with a proven record of achievement in research, teaching, and administrative leadership to chair a Ph.D. granting department of eleven faculty. Although we especially encourage applicants in cellular and molecular biology, applications from other areas are open. Appointment will be at the senior level effective 1 July 1989. Send curriculum vitae and the names and addresses of three references to: Chair, Search Committee, Department of Biology, St. Louis University, 3507 Laclede Avenue, St. Louis, MO 63103. Closing date is 15 January 1989, or until position is filled. Affirmative Action/Equal Opportunity Employer M/F/V/H/U.

CYSTIC FIBROSIS RESEARCH RECOMBINANT DNA LABORATORY

The Cystic Fibrosis Research Program is seeking an individual with experience in recombinant DNA and molecular biology techniques to serve as the COORDINATOR of the activities of a Core Laboratory. This individual would provide technical support for research related to cystic fibrosis. The applicant should have an M.S. degree in a health science related field. Requirements include understanding of molecular biology and laboratory experience with gel electrophoresis, basic recombinant DNA technology, construction of libraries and DNA sequencing. If not experienced in all techniques, some on-the-job training is possible. Salary depends on previous experience. Send curriculum vitae and three references to:

Dr. Richard A. Maurer
Department of Physiology and Biophysics
Room 5512 Bowen Science Building
University of Iowa College of Medicine
Iowa City, IA 52242

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

DEAN, COLLEGE OF PHARMACY, University of Utah. A distinguished educator/scientist is sought to provide educational, scientific and fiscal leadership for the College. The Dean is the chief administrator of the College, reporting directly to the Vice President for Health Sciences. The College of Pharmacy is research-intensive and committed to excellence in professional and graduate education. Applications will be accepted until 6 January 1989 or until a suitable candidate has been identified. Please send curriculum vitae and names, addresses, and telephone numbers of three or more references to: Dr. Douglas E. Rollins, Chairman of the Search Committee, Center for Human Toxicology, College of Pharmacy, University of Utah, Salt Lake City, UT 84112. A Ph.D. degree and a record of success as a faculty member or administrator at a major university is required. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

DEVELOPMENTAL BIOLOGIST, ASSOCIATE PROFESSOR, Nontenure track. Position renewable up to six years. To start September 1989. Contingent upon state funding, Ph.D. required. Salary negotiable (probable range: $23,000 to $32,000). Duties include teaching embryology, human anatomy and physiology, human biology, general biology and a graduate course in developmental biology and advising undergraduate and graduate students. Research is encouraged. Send curriculum vitae, official undergraduate and graduate transcripts, three letters of recommendation, and a brief statement of professional goals to: R. Smoes, Hiring Committee, Biology Department, Towson State University, Baltimore, MD 21252. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

ENDOCRINOLOGY AND METABOLISM—Two positions are available immediately to join a multidisciplinary research group in diabetes and obesity. Research interests include in vitro and in vivo studies in diabetes and obesity and the effects of diabetes on cardiovascular parameters. A M.D. degree is required. Send curriculum vitae, letter of intent, and list of three references to: Dr. Robert L. Cord, Department of Physiology and Biophysics, University of Massachusetts Medical School, Worcester, MA 01655. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

DIRECTOR SCHOOL OF BIOLOGICAL SCIENCES UNIVERSE OF NEBRASKA—LINCOLN

The University of Nebraska-Lincoln invites nominations and applications of highly qualified individuals for the position of Director, School of Biological Sciences, and Professor with tenure. The School has a broad range of active research programs from cell and organism biology to ecology and evolution and, at the molecular level, studies in molecular biology, genetics, and cell biology. The School's research programs are particularly dynamic period of growth and development, and we are seeking to expand the faculty, maintain state-of-the-art laboratories, and establish new research areas. We have a long tradition of high quality research and teaching environment, and the School's success is partly due to the strong commitment of the faculty to research and teaching. The School has a current enrollment of approximately 1500 students, including nearly 400 graduate students. Salary is based on experience and qualifications. Send curriculum vitae and three or more letters of reference to: Dr. Walter K. Finn, Dean, College of Agriculture and Natural Resources, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. Telephone: 402-472-2724. Affirmative Action/Equal Opportunity Employer.

ENDOCRINOLOGIST AND METABOLISM—Two positions are available immediately to join a multidisciplinary research group in diabetes and obesity. Research interests include in vitro and in vivo studies in diabetes and obesity and the effects of diabetes on cardiovascular parameters. A M.D. degree is required. Send curriculum vitae, letter of intent, and list of three references to: Dr. Robert L. Cord, Department of Physiology and Biophysics, University of Massachusetts Medical School, Worcester, MA 01655. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

DIRECTOR, School of Biological Sciences, University of Nebraska—Lincoln. The University of Nebraska—Lincoln invites nominations and applications of highly qualified individuals for the position of Director, School of Biological Sciences, and Professor with tenure. The School has a broad range of active research programs from cell and organism biology to ecology and evolution and, at the molecular level, studies in molecular biology, genetics, and cell biology. The School's research programs are particularly dynamic period of growth and development, and we are seeking to expand the faculty, maintain state-of-the-art laboratories, and establish new research areas. We have a long tradition of high quality research and teaching environment, and the School's success is partly due to the strong commitment of the faculty to research and teaching. The School has a current enrollment of approximately 1500 students, including nearly 400 graduate students. Salary is based on experience and qualifications. Send curriculum vitae and three or more letters of reference to: Dr. Walter K. Finn, Dean, College of Agriculture and Natural Resources, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. Telephone: 402-472-2724. Affirmative Action/Equal Opportunity Employer.

ENDOCRINOLOGIST AND METABOLISM—Two positions are available immediately to join a multidisciplinary research group in diabetes and obesity. Research interests include in vitro and in vivo studies in diabetes and obesity and the effects of diabetes on cardiovascular parameters. A M.D. degree is required. Send curriculum vitae, letter of intent, and list of three references to: Dr. Robert L. Cord, Department of Physiology and Biophysics, University of Massachusetts Medical School, Worcester, MA 01655. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

DIRECTOR, School of Biological Sciences, University of Nebraska—Lincoln. The University of Nebraska—Lincoln invites nominations and applications of highly qualified individuals for the position of Director, School of Biological Sciences, and Professor with tenure. The School has a broad range of active research programs from cell and organism biology to ecology and evolution and, at the molecular level, studies in molecular biology, genetics, and cell biology. The School's research programs are particularly dynamic period of growth and development, and we are seeking to expand the faculty, maintain state-of-the-art laboratories, and establish new research areas. We have a long tradition of high quality research and teaching environment, and the School's success is partly due to the strong commitment of the faculty to research and teaching. The School has a current enrollment of approximately 1500 students, including nearly 400 graduate students. Salary is based on experience and qualifications. Send curriculum vitae and three or more letters of reference to: Dr. Walter K. Finn, Dean, College of Agriculture and Natural Resources, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. Telephone: 402-472-2724. Affirmative Action/Equal Opportunity Employer.

ENDOCRINOLOGIST AND METABOLISM—Two positions are available immediately to join a multidisciplinary research group in diabetes and obesity. Research interests include in vitro and in vivo studies in diabetes and obesity and the effects of diabetes on cardiovascular parameters. A M.D. degree is required. Send curriculum vitae, letter of intent, and list of three references to: Dr. Robert L. Cord, Department of Physiology and Biophysics, University of Massachusetts Medical School, Worcester, MA 01655. Affirmative Action Employer; applications from qualified female/male candidates are encouraged.

DIRECTOR, School of Biological Sciences, University of Nebraska—Lincoln. The University of Nebraska—Lincoln invites nominations and applications of highly qualified individuals for the position of Director, School of Biological Sciences, and Professor with tenure. The School has a broad range of active research programs from cell and organism biology to ecology and evolution and, at the molecular level, studies in molecular biology, genetics, and cell biology. The School's research programs are particularly dynamic period of growth and development, and we are seeking to expand the faculty, maintain state-of-the-art laboratories, and establish new research areas. We have a long tradition of high quality research and teaching environment, and the School's success is partly due to the strong commitment of the faculty to research and teaching. The School has a current enrollment of approximately 1500 students, including nearly 400 graduate students. Salary is based on experience and qualifications. Send curriculum vitae and three or more letters of reference to: Dr. Walter K. Finn, Dean, College of Agriculture and Natural Resources, University of Nebraska-Lincoln, Lincoln, NE 68588-0312. Telephone: 402-472-2724. Affirmative Action/Equal Opportunity Employer.
Post-Doctoral Fellowship In Microbial Ecology

The SAVANNAH RIVER SITE offers three clear advantages:
CAREER CHALLENGES, CAREER OPPORTUNITY, AND LOCATION NEAR AIKEN, SOUTH CAROLINA

A Post-doctoral fellowship position at the Department of Energy’s Savannah River Laboratory is available immediately in Microbial Ecology. The 2-year fellowship is for a researcher interested in serving on a research team effort on the Microbiology of the Deep Subsurface Program at Savannah River Laboratory. Applicants must have a Ph.D. in Microbial Ecology, Soil Microbiology, or Geomicrobiology. Desirable skills would include ecological immunofluorescent investigations, nucleic acid probes, xenobiotic degradation, anaerobic techniques, and geological familiarity. The position offers applicants an opportunity for innovative research in a well-equipped laboratory on basic and applied microbial ecology projects.

Operated for the United States Department of Energy, the Savannah River Site produces radioactive isotopes for national defense, medicine, and America’s space program. While the outstanding professional environment broadens your career horizons, our geographical location offers a mild climate with access to some of the Southeast’s most attractive cultural and recreational resources.

Salary is commensurate with your training and experience. Our highly regarded benefits program includes relocation assistance. For confidential consideration, applicants should submit curriculum vitae, reprints and the names, addresses, and telephone numbers of three references to Dr. Carl B. Flermans, Savannah River Laboratory, Environmental Sciences Division, Aiken, SC 29808.
POSITIONS OPEN

ENVIRONMENTAL SCIENTIST

The National Research Council (NRC) is seeking a program officer for its Board on Environmental Studies and Toxicology (BEST). Will direct projects in environmental contamination with emphasis on methods for assessment of lead in critical populations and national monitoring of human tissues. Responsibilities include working with coordinating and providing intellectual overview and guidance. Ph.D. or equivalent in environmental chemistry or toxicology, or related field required. At least 3 years experience with environmental and/or toxicological issues; practice and/or research also required. Demonstrated ability to understand the use of scientific information, make decisions and to integrate data from a wide variety of disciplines. Please submit curriculum vitae, a recent publication or writing sample, and names of references in confidence to:

NRC/BEST/344 KH
2101 Constitution Avenue, N.W.
Washington, D.C. 20418

Equal Opportunity Employer.

FACULTY

The Department of Internal Medicine, Wayne State University is seeking candidates for a faculty position in the Division of Hematology/Oncology to supervise research in an alcoholic evaluation laboratory. Candidates must possess a Ph.D. or M.D. degree, have research experience in anticancer agent drug and development, and have established the ability to conduct independent research projects. Responsibilities will include establishing a variety of assays to define the mechanism of action of biochemical, cellular and pharmacological agents, developing collaborative research projects, and assisting in the professional and educational commitments of the Division.

Send curriculum vitae to:
Department of Internal Medicine
PAR #07094
3800 Woodward, #218
Detroit, MI 48201

Wayne State University is an Equal Opportunity/Affirmative Action Employer.

Emory University, Department of Radiology, seeks a Ph.D. or M.D. with either NMR spectroscopy or imaging experience for a full-time FACULTY POSITION. The candidate must be able to originate fundable research projects using NMR and collaborate with other faculty members (in or out of radiology) on NMR research. Knowledge of spin behavior is essential, and medicine, biology, or biochemistry, analog electronics, and computer skills are required. Two 1-meter clinical imagers operating at 0.5 and 1.5 T and a 30 cm 200-MHz instrument, all fully programmable, are available. The department is part of an 800-bed tertiary care hospital giving ample opportunities for collaborations requiring clinical material. Seven Ph.D. scientists in the radiology department are currently involved full-time in NMR. Qualified candidates please contact:

Dr. Thomas Dixon, Director
Prits Phillips Magnetic Resonance Research Center
419 Woodruff Memorial Building
Emory University
Atlanta, GA 30322

Emory University is an Equal Opportunity/Affirmative Action Employer.

MAYO CLINIC

FACULTY POSITIONS IN CANCER RESEARCH

The Department of Oncology invites applications for two faculty members open at any rank. Candidates with expertise in cell molecular biology, biophysics, or immuno- pathology interested in work directed toward the molecular characterization, detection, and control of human cancers. Joint appointments in other departments are appropriate. Please send curriculum vitae and names of addresses of three references to: Dr. Matthew M. Ames, Oncology Search Committee, Department of Oncology, Mayo Clinic, Guggenheim 4, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSITIONS OPEN

FACULTY POSITION

MOLECULAR PHARMACOLOGY

The Department of Pharmacology, Medical College of Ohio, seeks an outstanding individual with research interests in drug action and signal transduction mechanisms in the cell membrane. The appointment is expected to be made at the assistant professor level, though exceptional senior candidates for a tenured position will also be considered. Excellent facilities, competitive salary, and generous start-up funds are available. Please contact: Dr. Amir Askari, Department of Pharmacology, Medical College of Ohio, Toledo, OH 43699. Medical College of Ohio is an Equal Opportunity Employer.

FACULTY POSITION IN BIOCHEMISTRY AT THE UNIVERSITY OF NEBRASKA MEDICAL CENTER

The Department of Biochemistry of the University of Nebraska Medical Center at Omaha is seeking a qualified individual to fill a tenure-leading assistant professor position. All applicants should hold a Ph.D. in biochemistry or a related discipline and should have postdoctoral experience in structural biology. Salary will be commensurate with education and experience. The successful applicant will be expected to develop an independently-funded research program in the areas of protein structure and contribute to building a strong graduate educational program. Please forward curriculum vitae, a statement of research accomplishments and three letters of recommendation by 31 December 1988, to: Dr. Edward Bresnick, Department of Biochemistry, The University of Nebraska Medical Center, 42nd and Dewey Avenue, Omaha, NE 68105. Please refer to Position No. 8-6169. The University of Nebraska is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION—NUCLEAR CHEMISTRY

The Department of Chemistry at Indiana University invites applications for a tenure-track position in nuclear chemistry beginning in September 1989. Applicants should have demonstrated outstanding potential for leading a vigorous research program and for teaching at the undergraduate and graduate level. Research in nuclear chemistry at Indiana University is carried out at the Indiana University Cyclotron Facility (IUCF) and other user facilities. IUCF is a national accelerator laboratory which provides variable-energy, light-ion beams up to 500 MeV. A dossier including curriculum vitae, list of publications, three letters of reference, and a brief statement of research interests should be sent to: Professor Paul A. Greco, Department of Chemistry, Indiana University, Bloomington, IN 47405. Deadline for receipt of materials is 1 January 1989. Indiana University is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION—ORGANIC CHEMISTRY

The University of Minnesota, Morris, invites applications for a tenure-track professor position to begin September 1989. Candidates must have a Ph.D. in organic chemistry by September 1989 and have teaching experience. Highest consideration given to candidates who demonstrate an excellence or promise of excellence in teaching. Candidates must show promise of being able to establish a research program suitable to a small undergraduate liberal arts college. Special consideration given to women and minority candidates and to candidates with some background in biochemistry or bio-organic chemistry. The successful candidate will be teaching undergraduate organic chemistry courses, lecture and lab, to chemistry and biology majors, and to pre-professionals in the health sciences. Other responsibilities include supervising and providing direction of the chemistry program and serving the wider activities of the college with other faculty. Candidates should submit complete resumes and three letters of reference by 3 January 1989 to: Dr. James M. Olson, Chair, Division of Science and Mathematics, University of Minnesota, Morris, MN 56270. The University of Minnesota, Morris, is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

SENIOR SCIENTIST

The Growth Factor Research Department of the Merck Research Laboratories has an opening for a senior scientist to study the interaction between protein growth factors and steroid hormones at the cell biological, biochemical and/or molecular biological level. Candidates should have a Ph.D. degree in Biochemistry or a related area and a minimum of 1 to 2 years of postdoctoral training. Experience in growth factor or steroid hormone research is desirable but not essential.

Merck Sharp and Dohme Research Laboratories are located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested candidates should submit their resume with the names of three references and salary requirements to Ms. Jacqueline A. Ebermann, Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey 07065.

EQUAL OPPORTUNITY EMPLOYER
U.S. ENVIRONMENTAL PROTECTION AGENCY’S
1989 VISITING SCIENTISTS AND ENGINEERS PROGRAM

The Environmental Protection Agency’s (EPA) Office of Research and Development is accepting applications to its 1989 Visiting Scientists and Engineers Program. Individuals with at least five years experience beyond the Ph.D. are eligible to apply. Those selected will conduct research at an EPA laboratory for one to three years on a full or part-time basis. Applications will be accepted through April 30, 1989, on the following topics:

Environmental Research Laboratory, Corvallis, Oregon
- Implication of the loss of biological and genetic diversity in a regulatory context
- Ecological effects of global climate change, stratospheric ozone depletion, tropospheric ozone, acidic deposition and air toxics
- Effects of pollutants on plant populations
- Applied molecular biology of plants

Environmental Research Laboratory, Athens, Georgia
- Spectroscopies of transient processes in natural water systems
- Characterization of redox transformation of inorganic pollutants in aqueous environments
- Analysis of uncertainty in environmental simulation

Robert S. Kerr Environmental Research Laboratory, Ada, Oklahoma
- Microbial transport of hydrophobic neutral organic compounds
- Solute transport in subsurface systems, particularly with respect to macromolecules
- Modeling of the transport of hazardous materials through structured soils

Environmental Monitoring Systems Laboratory, Cincinnati, Ohio
- Development of methods to detect and measure biomarkers of environmental exposure
- Development of recombinant DNA methods for measuring bacteria, viruses and protozoa in environmental samples
- Investigation into the application of advanced analytical techniques to current problems in microbial ecology
- Identification and adaptation of biomarkers for use in establishing ecosystem status and trends
- Enhanced, short-term methods for measuring chronic, aquatic toxicity of wastes and water
- Development of analytical methods for organic disinfection by-products in drinking water

Environmental Monitoring Systems Laboratory, Las Vegas, Nevada
- Development of immunochemical methods for monitoring environmental contaminants: sample preparation techniques, new immunoassay formats, portable assay kits
- Use of remote sensing digital imagery in conjunction with geographical information systems (GIS), to delineate, map, and monitor wetlands ecosystems
- Advanced instrumentation for analysis of environmental and biological samples
- Mathematical methods such as statistical approaches (including multivariate techniques and pattern recognition) for the improvement of the assessment of large analytical chemistry data bases
- Free product monitoring in the vadose zone
- Development and application of advanced analytical methods for measurement and monitoring of toxic chemicals at or around hazardous waste sites

Atmospheric Research and Exposure Assessment Laboratory, RTP, North Carolina
- Development of human exposure models to accurately predict exposures to environmental pollutants
- Management and assessment of quality assurance data from large air pollution monitoring programs
- Laboratory simulation of buoyant plume penetration of elevated inversions

Environmental Criteria and Assessment Office, Cincinnati, Ohio
- Statistical problems in the application of probabilistic simulation methods to existing EPA risk assessment models
- Development of models to describe interactions between agents in binary mixture

For detailed instructions and other information, write to:

Alvin Edwards
1989 Visiting Scientists and Engineers Program
Office of Exploratory Research, RD-675
U.S. Environmental Protection Agency
401 M Street, S.W., Room NE300
Washington, D.C. 20460
Phone: (202) 382-7663

EPA is an equal opportunity employer

Research Manager
Neuropharmacology
Madrid

Laboratorios Liade SA is a subsidiary of The Boots Company PLC with modern, well-equipped laboratories in the Madrid area.

An experienced Research Scientist is required to lead and direct a 25 strong research department which is focusing primarily on the discovery and development of new drugs for the treatment of epilepsy. You will report to the local Scientific Director, but for corporate project purposes will work closely with the Mental Illness Project Leader in the UK.

You must have a PhD and an established research record in the pharmacology or biochemistry of the central nervous system. Experience in industry is required. The ability to communicate effectively with non-specialists is essential.

Salary is negotiable and generous assistance will be given with the cost of relocation to Spain.

Please write with a full c.v. to:-
R.J.N. O’Callaghan, The Boots Company PLC, Nottingham NG2 3AA. UK.

THE BOOTS COMPANY PLC
HEMATOPATHOLOGIST

Junior staff position in hematology/blood bank is available now in Laboratory Service, West Los Angeles Medical Center. Qualifications: M.D. degree, certification in clinical or specialty pathology or equivalent experience; interest in teaching, demonstrating and measuring performance in an independent research program, administrative skills in developing and managing computerized laboratories to fulfill current requirements. Application with curriculum vitae and three letters of recommendation should be sent to: U. Tomiyasu, M.D., Chairman, Search Committee for Hematology/Blood Bank, Laboratory Service, 691113, VA Medical Center, Los Angeles, CA 90073. Veterans Administration is an Equal Opportunity/Affirmative Action Employer. U.S. Citizenship is required.

INORGANIC CHEMISTRY AND ANALYTICAL BIOCHEMISTRY—The Chemistry Department of Williams College invites applications for two tenure-track positions at the ASSISTANT PROFESSOR level for fall 1989. Candidates should have a Ph.D. (postdoctoral experience is preferred) and a strong commitment to teaching at the undergraduate level and developing a productive research program. The teaching assignments for the inorganic chemist will include inorganic chemical analysis, and the analyst will include biochemistry and instrumental methods of analysis. Additional assignments for both will be from other courses in the curriculum and from the Department's background and interests and the needs of the Department. A semester teaching load normally includes course responsibility for both laboratory and supervision of student research projects. Authorization for one position has been granted and authorization for the second is pending. Appointment at a lower level is possible under the circumstances. Williams College is a highly selective, coeducational liberal arts institution of approximately 260 faculty and 1950 undergraduate students, located in northwestern Massachusetts. The Chemistry Department, with nine faculty members and 25 to 35 majors each year, is accredited by the ACS and has excellent facilities for teaching and research. Send resume, undergraduate and graduate transcripts, description of research projects for undergraduates, and three letters of recommendation to: Dr. Lawrence J. Kaplan, Chairman, Department of Chemistry, Williams College, Williamstown, MA 01267, by 30 December 1988. Equal Opportunity/Affirmative Action Employer. We are particularly interested in identifying minority and women candidates.

MIBIOLOGIST—The Department of Biology of the University of North Carolina at Greensboro (UNCG) has a 9-month tenure-track position for an assistant professor of biology to be filled by August 1, 1989. UNCG seeks an individual to develop a program to teach microbiology and advanced courses at the undergraduate and graduate level, and to develop a research program. Applicants should submit, by 10 January 1989, a statement of research and teaching interests, curriculum vitae, representative reprints, a list of science courses completed, and three letters of reference to: Dr. Robert Cannon, Search Committee, Department of Biology, UNCG, Greensboro NC 27412-5001. An Equal Opportunity/Affirmative Action, Title IX, 504 Employer.

MOLECULAR VIROLOGY DEPARTMENT OF MICROBIOLOGY UNIVERSITY OF VIRGINIA

Applications are invited for a tenure-track position in molecular virology in the Department of Microbiology. The position is available at the ASSOCIATE PROFESSOR level. Position will include joint appointment in the Cancer Center. Candidates will be expected to maintain an active, independent research program to engage in graduate and medical students. The department offers a stimulating environment, including well-equipped facilities, and full faculty status and postdoctoral training programs. Applicants should submit curriculum vitae, a statement of current research activities and future plans, and the names of three letters of recommendation to: Dr. Robert R. Wagner, Chairman, Department of Microbiology, University of Virginia School of Medicine, Box 441, Charlottesville, VA 22908.

An Equal Opportunity/Affirmative Action Employer
THE HONG KONG UNIVERSITY OF SCIENCE AND TECHNOLOGY
seek candidates for

Heads/Professors of Academic Departments

Vice-Chancellor: Professor Chia-We! Woo

The Hong Kong University of Science and Technology was established in 1988. Its mission is to educate men and women who will contribute to the territory’s economic well-being, and to promote research, development, and entrepreneurship in the Asian-Pacific region.

Student intake will begin in 1991-92, at both undergraduate and postgraduate levels including the doctoral degree. Enrollment is expected to grow to 7,000 FTE within 5 years, and possibly to 10,000 by 1998-99. Students’ sex ratio will begin at 7 to 1, leveling off to 11 to 1 in the steady state. While students are expected to be bilingual, all professional instruction will be in English.

The University will set up a research centre, a number of research institutes, and a technology transfer centre, the latter in the form of a limited corporation, to facilitate collaboration among members of different Departments, as well as partnership between members of the University and industry and commerce. Major efforts will be directed toward biotechnology, advanced materials, CAD/CAM: mathematics and statistics for applications to engineering, manufacturing, and finance, risk management and environmental studies, etc.

SCHOOL OF SCIENCE

DEPARTMENT OF BIOLOGY

The Department will provide undergraduate education in a wide range of biological sciences that cover biological systems at all levels of organization. It will also offer postgraduate education for in-depth study and research into major areas of modern biology: animal physiology, biochemistry, biophysics, cell biology, developmental biology, ecology, population genetics and evolution, molecular genetics, microbiology, neurobiology, and plant physiology. There will be strong emphases on all aspects of biotechnology that meet Hong Kong’s economic development needs. Student population is expected to grow to 400 FTE by 1998-99. The Department will have an academic staff establishment of 40 by 1998-99, and appropriate administrative and technical staff as well-equipped laboratories. A Department of Biochemistry with about 30 staff and 300 student FTE will be established a year after the inauguration of the Department of Biology.

QUALIFICATIONS AND EXPERIENCE

In general, applicants should have appropriate high academic and/or professional qualifications together with successful, relevant experience in universities, research laboratories, and/or industry. The successful candidates for the posts of Departmental Head will also be required to demonstrate the personal qualities necessary to lead the department in its diverse functions and to interact strongly with industry and commerce.

SALARY AND FRINGE BENEFITS

The salary will be within the professorial range, averaging HK$45,820 per month (not less than HK$37,045 per month), corresponding to approximately $70,492 per annum (and approximately $35,992 per annum) at the current exchange rate of HK$8.0 = US$1.0. Excellent fringe benefits including medical and dental benefits, and welfare, air passages, and children’s education allowances are provided. Housing or tenancy allowances are also provided at a charge of 7.5% of salary. A gratuity at an amount equal to 25% of the basic salary drawn will be payable upon successful completion of contract. When a supernumerary scheme is introduced, eligible staff will be given an option to join the scheme. Sabbatical leave, if approved, will be at full salary.

APPLICATIONS

Applications providing a detailed curriculum vitae together with the names and addresses of three referees should be sent to the Acting Pro-Vice-Chancellor (Administration and Business), The Hong Kong University of Science and Technology, B.F. St. John’s Building, 33 Garden Road, Hong Kong. Applicants should also send a copy of their application to the Appointments Officer, The Association of Commonwealth Universities, 36 Gordon Square, London WC1H 0DP. Application forms and further information are obtainable from these two offices. Full consideration will be given to applications received before 13 January 1989, but the search will continue until suitable appointments are made.

THE UNIVERSITY OF MICHIGAN

Director-Center for Great Lakes and Aquatic Sciences

The University of Michigan, Ann Arbor

The University of Michigan is searching for a Director for the Center for Great Lakes and Aquatic Sciences (CGLAS). The Center is the focus of a broad variety of research efforts both on the Laurentian Great Lakes and on other aquatic systems worldwide. CGLAS is an independent research unit within the University’s College of Literature, Science, and the Arts and has substantial facilities including laboratories, libraries, and an 80-foot UNOLS research vessel. Forty persons are affiliated with the Center, including 14 primary and associated researchers, and an administrative staff of 5. The Director will be responsible for the overall research directions and growth of the Center, and will represent CGLAS and the University at local, state, national, and international levels. Ann Arbor is the location of several state and federal research laboratories that focus on the Great Lakes in addition to the University programs. Appointment to the Directorship will be on a half-time basis and will be made in conjunction with an appointment as a tenured associate or full professor in the appropriate university department.

We are searching for an outstanding aquatic scientist who has a strong record of external funding and is familiar with the agencies that fund aquatic science, is capable of enhancing a program based on external funding, and, preferably, has some administrative experience. The successful candidate should hold a Ph.D. degree and must demonstrate a record of scholarship that will qualify for a tenured position in the University’s College of Literature, Science, and the Arts.

Applications and nominations will be accepted until February 15, 1989, although the search will remain open if suitable candidates are not found by then. Interested persons should submit curriculum vitae and the names of five persons who can be contacted as references to: Prof. David K. Reiss, Chair, Search Committee, Center for Great Lakes and Aquatic Sciences, The University of Michigan, 2200 Bonsteel Boulevard, Ann Arbor, Michigan 48109-2099.

The University of Michigan
A non-discriminatory, affirmative action employer

SENIOR INFORMATION SCIENTIST

As one of the world’s largest and most prestigious pharmaceutical and medical research organizations, Hoffmann-La Roche understands the importance of effective Scientific Information Services Department.

To maintain our high level of excellence in this function, we are seeking an individual to conduct literature searches and write critical reviews; initiate and prepare evaluative literature surveys in the biochemical and biomedical fields; maintain comprehensive bibliographies on Roche products; and abstract/index scientific articles and patents in English and other languages.

To qualify, you must possess a Ph.D. in a Biomedical Science, with emphasis on biochemical therapeutics and molecular biology. In addition, laboratory research experience and the proven ability to write in-depth literature reviews are essential. Reading ability in German and French, course work in Organic Chemistry and knowledge of commercially available data bases are desirable.

In return, we offer a very competitive salary, an attractive benefits program, and the professional satisfaction of supporting an organization with a strong commitment to health. For consideration, please send your resume with salary history/requirements (those without this information will not be acknowledged), to: Mr. John G. Nathan, Department L.C., Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.

Hoffmann-La Roche
Working Today For A Healthier Tomorrow.
**POSITIONS OPEN**

**MARINE SCIENTIST C #060**

Will serve as database manager and design, develop and maintain comprehensive fisheries data storage and retrieval system in computer science, fisheries or marine science or equivalent combination of experience and training required. Demonstrated ability to develop and manage database, ability to conduct independent research and strong communications skills required. Familiarity with major software packages required. Demonstrated knowledge of fisheries or aquatic ecology preferred. Application must be received no later than 16 December 1988 in: The Office of Personnel Services, College of William and Mary, Williamsburg, VA 23185. An Equal Opportunity/Affirmative Action Employer.

**MICROBIOLOGIST, PH.D., ASSISTANT PROFESSOR.** Responsibilities include teaching the broad spectrum of medical school microbiology and research. Interested qualified candidates send curriculum vitae, salary, and three letters of recommendation to: Dr. Gloria L. Santorelli, New York College of Osteopathic Medicine, Old Westbury, NY 11568.

**MOLECULAR BIOLOGY TWO FACULTY POSITIONS**

The Department of Biological Sciences at the State University of New York at Albany seeks to fill two tenure-track positions. Salary: Ph.D. at assistant/associate professor level. Candidates should have research interests in (i) the use of molecular genetic techniques to study protein and/or DNA structure/function relationships, and (ii) molecular aspects of eukaryotic gene expression in developmental, neuro-, or cell biology, are encouraged to apply. Applicants should submit curriculum vitae, statement of research interests, and three reference letters before 31 January 1989 to:

**Chair, Molecular Biology Search Committee**

Department of Biological Sciences

State University of New York at Albany

1400 Washington Avenue,

Albany, NY 12222.

The department has strong Ph.D. programs in molecular biology, developmental biology, ecology, and genetics, and participates in an interdepartmental center for Molecular Genetics.

SUNY at Albany is an Equal Opportunity/Affirmative Action Employer. Applications from women, minority persons, handicapped persons, and special disabled or Vietnam veterans are especially welcome.

**MOLECULAR/GENETICS**

**INDIANA UNIVERSITY, NEW ALBANY**

Natural Sciences (biology) at Indiana University Southeast seeks qualified Ph.D. applicants with a molecular biology/genetics specialty for a tenure-track position as ASSISTANT PROFESSOR. The person selected is expected to reinforce our commitment to excellence in undergraduate teaching. Teaching responsibilities include molecular biology, genetics, and cell biology, and developing laboratories in each. Additional teaching responsibilities may include other major/non-major courses.

Candidates must also demonstrate strong potential for independent research, and will be expected to apply for extramural research funding. Space will be provided for a teaching/research laboratory. Start-up equipment and some continuing support for research will be available. Submit curriculum vitae, reference, curriculum vitae, research statement with a description of projects future research activities, and official transcripts to:

**Dr. M. C. Richardson**

Molecular/Genetics Search Committee

Division of Natural Sciences

Indiana University Southeast

4201 Grant Line Road

New Albany, IN 47150

Indiana University is an Affirmative Action/Equal Opportunity Employer. The search committee will begin screening of applicants on 1 February 1989 and will continue until the position is filled.

**POSITIONS OPEN**

**MOLECULAR BIOLOGIST**

**ASSISTANT PROFESSOR: TENURE-TRACK:** to begin September 1989 subject to availability of funds. Ph.D., postdoctoral experience, and independent research experience. Application of publication indicating ability to establish an active, independent research program are required. Research should involve the development of molecular genetics in plants, Drosophila or other test systems of molecular biologists currently on faculty. Plant virologists experienced in use of plant viruses or Ti plasmid as vectors for study of gene expression in plants are particularly encouraged. Application (a letter of recommendation, a curriculum vitae, a concise summary of research interests, and three letters of reference) should be received no later than 16 December 1988 in: The Office of Personnel Services, College of Arts and Sciences, University of Massachusetts Boston Harbor Campus Boston, MA 02125—3393


**MOLECULAR BIOLOGIST POSITION AVAILABLE**

The Department of Physiology of the University of Maryland School of Medicine invites applications for a postdoctoral position at the assistant-professor level. We seek candidates with training in molecular biology as applied to neurobiology. We seek candidates with experience in a genetic methodology. Applicants must have a Ph.D. or M.D. with at least 2 years experience and the potential to develop a strong and independent research program. The Department of Physiology, the Medical School, and the Medical Biotechnology Center provide a stimulating environment for research with ample opportunities to interact with other faculty members. Send curriculum vitae, statement of research interests, reprint of key publications, and names of three references by 1 February 1989 to:

**Phyllis M. Wise, Ph.D., Chair**

Molecular Biology Search Committee

Department of Physiology

University of Maryland School of Medicine

655 West Baltimore Street

Baltimore, MD 21201

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

**NEUROSCIENTIST/COMPUTER SCIENTIST/BIOLOGIST**

Individual with background in neurosciences, computer graphics/image processing, and/or optical recording technology, to manage a newly formed 400+ person group. Send resource for large multidisciplinary neuroscience research laboratory. Own research encouraged. Please send curriculum vitae and bibliography to: D. J. Reis/K. Koenig, Division of Neurobiology, Cornell University Medical College, 411 East 69th Street—KB410, New York, NY 10021. Equal Opportunity Employer/Affirmative Action M/F/H/V.

**PHARMACEUTICALS/PHARMACEUTICAL CHEMISTRY**

Applications are invited for a TENURED OR TENURE-TRACK POSITION in pharmaceuticals/pharmaceutical chemistry at the University of Colorado School of Pharmacy. The position requires a Ph.D. in pharmaceuticals, pharmaceutical chemistry, chemistry, chemical engineering, or closely related field. The successful applicant will be expected to develop a strong extramurally-funded research program in his/her area of interest. Other responsibilities will include teaching pharmaceuticals and/or pharmaceutical chemistry at the undergraduate and graduate levels. Candidates at all ranks will be considered. Salary and rank will be commensurate with qualifications and experience. The closing date for receipt of applications is 15 January 1989. Submit curriculum vitae, a brief description of research plans, and the names, addresses, and telephone numbers of three references to: Dean Louis Diamond, School of Pharmacy, University of Colorado, Boulder, CO 80309—0297. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

**PHARMACOLOGIST**

Applications are invited for a full-time faculty position available July 1989 comprising both teaching and research opportunities. Candidates should have a Ph.D. in pharmacology. Expertise in physiology desirable. Candidates should possess a strong commitment to teaching and have demonstrated excellence in research. Send curriculum vitae and three letters of recommendation to: Douglas H. Poorman, Ph.D., Vice President of Academic Affairs, Southern College of Optometry, 1245 Madison Avenue, Memphis, TN 38104. Equal Opportunity Employer.

**PHARMACOLOGY—Tufts University School of Medicine and School of Veterinary Medicine.** The Department of Pharmacology invites applications for a postdoctoral position at the assistant/associate professor level. Candidates are sought with research expertise in in vivo chemical or molecular pharmacology such as drug metabolism, cellular transport, or the mechanism of action of cytotoxic agents. The successful candidate will be expected to develop an independent research program with outside funding. The responsibilities of the position include directing a basic veterinary pharmacology course, and teaching part in the teaching part of the other pharmacology courses. Please submit a resume and concise statement of research interests, and arrange for three letters of recommendation to be sent to: Faculty Resources Committee, Department of Pharmacology, Tufts University School of Medicine, 156 Harrison Avenue, Boston, MA 02111. Tufts University is an Affirmative Action/Equal Opportunity Employer.

**PLANT MOLECULAR BIOLOGY**

One POSTDOCTORAL POSITION available in January 1989 for mutation mapping and expression in transgenic rice plants. A Ph.D. in molecular biology, biochemistry or genetics. Experience in recombinant DNA techniques and rice genetics desirable. Send resume to: Dr. Norimoto Murai, Department of Plant Pathology and Crop Physiology, Louisiana State University, Baton Rouge, LA 70803. Telephone: 504-385-1380. An Equal Opportunity Employer.

**PLANT TISSUE CULTURE/GENETIC ENGINEERING**

Tenure-track appointment available 15 March 1989 at the ASSISTANT OR ASSOCIATE PROFESSOR level to conduct research aimed at developing strategies to bridge cellular and molecular approaches to plant improvement using tissue/cell culture, protoplast fusion, haploid culture, and/or genetic engineering techniques. Program development is expected to follow interests of the successful candidate, and basic as well as applied investigations will be encouraged. Teaching a graduate level course, collaboration with other investigators who wish to utilize tissue culture techniques in plant breeding and micropropagation, and advising graduate students will be encouraged. Applicants must have a Ph.D. with genetics, molecular biology or plant physiology. Deadline for receipt of application is 15 February 1989 or until a suitable candidate is located. Interested persons should send curriculum vitae, transcripts, and have three letters of reference sent to: 1. I. Blackinton, Department of Horticulture, 137 Julian C. Miller Hall, Louisiana State University, Baton Rouge, LA 70803.

Louisiana State University is an Equal Opportunity/Affirmative Action Employer.
MAKE AN IMPACT

Applied Biosystems Incorporated, the leading international manufacturer of instrument/reagent systems for biotechnology research, is seeking accomplished professionals to be located at our facilities in the San Francisco Bay Area.

ASSOCIATE SCIENTIST

Use your expertise in molecular biology and biochemistry to support R&D for our DNA sequencer project. This will involve developing new approaches and applications for fluorescent dye-labelled DNA sequencing. To qualify, you'll need a strong background in DNA sequencing and/or DNA polymerases with a PhD in a related field or a BS/MS with 2-5 years of relevant experience. (Ref. #88-340)

ASSOCIATE SCIENTIST

Your primary focus will be to develop novel, automatable chemistries. You'll investigate new chemical methodologies for the analysis of peptides and proteins, design and run new reactions and characterize the reaction products. We require a BS/MS in Organic Chemistry with 1-5 years laboratory experience and strong knowledge of HPLC. Excellent analytical and synthetic skills essential. (Ref. #88-226)

ASSOCIATE SCIENTIST

You'll develop methodology and applications for protein sequencing instrumentation, help design hardware and software for the product line and participate in user training and user meetings. To qualify, you'll need a BS in Chemistry or Biochemistry with 1+ years experience operating and maintaining protein sequencers. We also require expertise in preparing protein/peptide samples for sequence analysis, applications protocol development, and methods troubleshooting. Excellent communication skills essential. MS preferred. (Ref. #88-269)

RESEARCH ASSOCIATE

You will conduct automated synthesis, purification, and analysis of oligonucleotide analogues and assist in the development of related new methodologies. You'll need to be a self starter with demonstrated initiative. A BS in Chemistry and 2-4 years of related experience are also required. (Ref. #88-251)

Make an impact at Applied Biosystems. Qualified candidates may send their resumes, indicating the reference code, to Human Resources, Applied Biosystems Incorporated, 850 Lincoln Centre Drive, Foster City, CA 94404. We are an equal opportunity employer.

MOLECULAR BIOLOGY

Advance your career ON THE CUTTING EDGE of AGRICULTURAL BIOTECHNOLOGY

Crop Genetics International, a leading agricultural biotechnology company located in Maryland close to Washington D.C. and Baltimore, is expanding its efforts in bacterial molecular biology to develop novel delivery systems for microbial biopesticides. We are seeking talented and energetic individuals who will contribute to our new applications of molecular biology. With excellent laboratory facilities and scientific staff, the company provides an ideal environment in which successful candidates will pursue answers to challenging questions concerning regulation of gene expression in novel, non-conventional bacteria. We are seeking the best scientists for advancing our proprietary technology to improve crop protection. The efforts of our molecular biology team have a direct effect on increasing the world's food supply while decreasing the environmental impact of widely used chemical pesticides. The specific positions being filled include the following:

Senior Scientists - Ph.D in Molecular Biology, Microbiology or Biochemistry. A minimum of five years experience in the biotechnology industry, with proven expertise in cloning and gene expression. The Senior Scientist will organize and manage his/her scientific group, establish financial requirements and report to the Department Director.

Research Scientists - Ph.D in Molecular Biology, Microbiology or Biochemistry. Scientists with recombinant DNA technology skills will have academic and/or industrial experience in gene cloning and expression, preferably but not necessarily in non-model systems. A fundamental understanding of gene regulation and bacterial physiology is necessary. Scientists with protein biochemistry skills should have academic and/or industrial experience in protein purification and characterization.

Associate Scientists - A Masters degree or equivalent experience in Molecular Biology, Microbiology or Biochemistry with a minimum of one year of biotechnology experience; or a bachelor's degree in an appropriate field with three years of relevant molecular biology experience. Successful candidates must have skills in recombinant DNA technology and/or protein biochemistry; immunochemical experience is desirable.

Successful candidates will be offered attractive compensation commensurate with qualification, generous benefits and excellent opportunity for interaction with leading scientists in the academic community. Resumes with the names of 3 references should be forwarded to the Vice President for Research & Development.

Crop Genetics International
7170 Standard Drive
Hanover, MD 21076
An equal opportunity employer.
**RESEARCH ASSOCIATE**

Kaiser Permanente in Los Angeles has an excellent career opportunity available in our Research Laboratory. Qualified candidates will have experience in cellular immunology/or immunoochemistry including cell culture techniques, immunofluorescence, leukocyte function and RIA. Good verbal and written communication skills, the ability to work with minimal supervision and an advanced degree in a related area are also required. Previous research publication record is preferred.

As part of one of the nation's oldest, largest and leading health care organizations, we offer competitive salaries and a comprehensive benefits package.

Qualified candidates should submit resumes to: Kaiser Permanente, Personnel Department, J99-12/88, 1515 N. Vermont Ave., 2nd Floor, Los Angeles, CA 90027. Equal Opportunity Employer.

---

**SCIENTIFIC EXCHANGES**

NAS Scientific Exchange Program with the U.S.S.R. and Eastern Europe

The National Academy of Sciences (NAS) invites applications from American scientists who wish to make visits beginning during the period January 1, 1990 through December 31, 1990 to the U.S.S.R., Bulgaria, Czechoslovakia, the German Democratic Republic, Hungary, Poland, Romania, and Yugoslavia. Long-term research visits of 3 to 12 months duration are encouraged, particularly if contact with colleagues in the other country has already been established. The minimum length of visits is one month in one country.

Applicants must be U.S. citizens and have a doctoral degree or its equivalent by June 1989 in physics, chemistry, mathematics and computer science, earth, atmospheric, and oceanographic sciences, agricultural, forestry, fisheries, and plant sciences; biological sciences; environmental sciences; engineering, archaeology and anthropology; geography, or psychology. Also included are science and technology policy and those aspects of the economic and social sciences that involve quantitative analysis as a primary consideration. Other scientific disciplines not explicitly mentioned will be considered on a case-by-case basis. Necessary expenses will be met by the NAS and the foreign academy, including reimbursement for long-term visits for salary lost up to a predetermined maximum and expenses for accompanying family members for visits exceeding five months.

Requests for applications should reach the National Academy of Sciences not later than February 14, 1989. Applications must be postmarked by February 28, 1989. Address application requests to:

National Academy of Sciences
Office of International Affairs
Soviet and East European Affairs (NA-186)
2101 Constitution Avenue, NW
Washington, D.C. 20418
Telephone: (202) 334-2644

---

**RESEARCH FELLOWSHIPS IN NUTRITION FOR MEDICAL STUDENTS**

**THE ROCKEFELLER UNIVERSITY**

A program for one year research fellowships has been made available by the Pew Charitable Trusts. Medical students will be selected to join the Pew Center of Nutritional Excellence at Rockefeller University in New York City. The core activity of fellows will be investigative work in basic biomedical laboratories at Rockefeller University on projects relevant to human nutrition. Applicants should currently be in the junior year of any medical school in the U.S.A. A generous stipend and housing allowance will be offered to those selected for the fellowship year to begin July 1, 1989.

Applications must be completed no later than February 1, 1989 to allow for full consideration. A small number of applicants will be invited to New York City for interviews in March, 1989 and final selection will be made early in April. For application forms and further details write to:

Dr. Jules Hirsch
The Rockefeller University
1230 York Avenue
New York, New York 10021-6399

---

**BIOCHEMIST**

Merck Sharp & Dohme Research Laboratories, a world leader in the development of ethical pharmaceuticals for human health, has an opening in a multidisciplinary project investigating the biochemistry, molecular biology and in vivo role of novel immunosuppressive agents.

The position will require proficiency in standard protein biochemistry techniques. A background and working knowledge of molecular biology is desirable. Qualified applicants should have a B.S. or M.S. degree or equivalent with at least three years of experience.

Merck Sharp & Dohme Research Laboratories are located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent.

Interested candidates should submit their resumes with the names of three references and salary requirements to Ms. Lonnie Deetz, Merck & Co., Inc., P.O. Box 2000, Rahway, New Jersey 07065.

EQUAL OPPORTUNITY EMPLOYER

---

**FACULTY RESEARCH PARTICIPATION (FRP)**

Argonne National Laboratory, a major U.S. Department of Energy research and development center for peacetime energy, invites applications to its summer research participation program for college and university faculty. Additional resources have been made available for support of collaboration in any of our basic research programs in Biology, Chemistry, Mathematics, Computer Science, Materials Science, Neutron Physics, High Energy, Reactor and Nuclear Physics, Chemical Technology, Reactor Safety, Environmental Science and Engineering. Stipends are $650/week for Assistant Professors and $750/week for those of higher rank. Eligible are faculty from U.S. colleges and universities.

Additional information on the FRP program as well as our semester program for students and our sabbatical program for faculty can be obtained from:

- Faculty Programs
- Educational Programs
- Argonne National Laboratory
- 9700 South Cass Avenue
- Argonne, IL 60439
- Argonne is an equal opportunity/affirmative action employer.

---

**Organogenesis, Inc.**

Project Director, Living Organ Equivalent Program

Candidates must have a Ph.D or M.D. degree with a proven record of scientific achievement and industrial experience. The person will be required to coordinate a multi-disciplinary program and have a strong scientific background in dermatology and connective tissue cell biology. At least 5 years of product development work in a senior capacity in industry is needed. A fine package of salary-bonus options will be provided by a company that already has an exceptional start and a unique technology.

Please send resumes with references to: Human Resources, Organogenesis Inc., 83 Rogers Street, Cambridge, MA 02142

An Equal Opportunity Employer
Applications are invited for teaching appointments in the Department of Botany.
Candidates should have a PhD degree and who are trained in one or more of the following areas in plant sciences: molecular biology, biotechnology, recombinant DNA-technology, gene transfer systems, molecular genetics, biochemistry, physiology, developmental botany, morphogenesis, tropical ecology and mycology/plant pathology.

Gross annual emoluments range as follows:

- Lecturer: S$44,870 – 58,680
- Senior Lecturer: S$53,160 – 94,090
- Associate Professor: S$82,430 – 113,530

(US$1 = S$2.03 approximately)

The commencing salary will depend on the candidate’s qualifications, experience and the level of appointment offered.

Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settlment-in allowance of SR1,000 or SR2,000, subsidized housing at nominal rentals ranging from SR100 to SR216 p.m., education allowance for up to three children subject to a maximum of SR10,000 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore. Staff members may undertake consultation work, subject to the approval of the University, and retain consultation fees up to a maximum of 60% of their gross annual emoluments in a calendar year.

The Department of Botany is a department in the Faculty of Science. There are 8 faculties in the National University of Singapore with a current student enrollment of some 14,000. The Department is well-equipped with a wide range of facilities to enhance the teaching and research activities of staff members. The University is linked to BITNET, an international network that interconnects almost 500 mainframe computers at 200 institutions of higher learning and research centres around the world.

Application forms and further information on terms and conditions of service may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

Enquiries may also be sent through BITNET to: PERSDEPT @ NUSVM

**Opportunities in Molecular Genetics**

As part of our expanding research activities, we seek several innovative scientists to join our Molecular Genetics Department at our Central Research Facilities in Groton, Connecticut. These positions offer an opportunity to join a group of highly motivated researchers developing biotechnology applications for the advancement of our drug discovery and medicinal research programs.

**Research Scientist:** You must have a PhD in Molecular Biology or related field with at least two years postdoctoral experience. Strong scientific credentials and a documented record of productivity are essential. In addition, candidates should have experience in one or more of the following areas:

- mammalian tissue culture and molecular biology techniques
- molecular cloning and DNA sequencing
- construction of prokaryotic and eukaryotic expression vectors
- analysis of heterologous gene expression

**Assistant Scientist:** Candidates should possess a BS or MS in Microbiology or related discipline and relevant laboratory experience involving recombinant DNA techniques.

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Qualified applicants should submit their resume and names of three references, indicating position of interest, in confidence, to Jerry K. Larson, PhD, Manager of Employment, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. Please make reference to “Science B” in your application. An equal opportunity employer.
PHOTOSYNTHESIS FACULTY POSITIONS—ARIZONA STATE UNIVERSITY

The Department of Botany at Arizona State University (ASU) seeks a plant cell and a plant molecular biologist to fill two new, tenure-track faculty positions pending final budgetary approval. These positions will strengthen research efforts in the newly established ASU Center for the Study of Early Events in Photosynthesis. A Ph.D. degree is required and postdoctoral experience is preferred. The successful applicants will be released from teaching obligations for up to 3 years, and will be expected to develop vigorous independent research programs. In addition, collaborative projects with other members of the Center will also be encouraged. Appointees will be at the assistant professor level.

Preference will be given to individuals with broad expertise in the area of photosynthesis, including the biochemistry of the plant photosynthetic apparatus. The interest of the plant molecular biologist should be in the area of protein synthesis, assembly, transport or regulation.

Applicants should submit their curriculum vitae, a statement of research goals, and have three letters of recommendation sent to: Wim Vermaas, Search Committee Chair, Department of Botany, Arizona State University, Tempe AZ 85287-1601.

Review of applications will begin 30 January 1989 and continue until a suitable candidate is selected. ASU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL: To study peptide-receptor interactions involving plant proteins and lipids using NMR methods. $21,000 to $24,000 plus benefits. New bruker AM 500 spectrometer Eternetted to a VAX 8550 computer. Applicants should have experience with NMR. Send application letter, résumé, and three references to: Dr. Edward Dratz, Department of Chemistry, Montana State University, Bozeman, MT 59717.

POSTDOCTORAL ASSOCIATE to investigate virulence determinants in potato virus X. A position is available for a postdoctoral associate to work on the above named project. The experimental approach is essentially molecular, involving the creation of directed mutations in the PVX genome and hybrid genotypes, incorporating components from different strains of PVX. The appointee will be seconded to Trinity College Dublin from the Sainsbury Laboratory and it is anticipated that he or she will work in Dublin, although it may be necessary to work in Norwich from time to time.

Further details can be obtained from: Dr. Tony Kavanagh, Department of Genetics, Trinity College, Lincoln Place Gate, Dublin 2, Eire, who will provide details of the project and the application procedure. The salary will be in £ sterling on the IA scale for British Universities, in the range £9,865 to £15,720 per annum (levels effective 1 March 1988).

POSTDOCTORAL ASSOCIATE—HARVARD MEDICAL SCHOOL

Join multidisciplinary team investigating novel immunotherapeutic approaches to cancer treatment involving radio-labeled monoclonal antibodies (see Science 240, 1024 (1988)) in experimental and human leukemias, lymphomas, myelomas, melanomas, and other malignancies. Experience in immunochemistry, immunochemistry or radiobiology useful. Salary: $25,000 to $30,000 per year. Send curriculum vitae to: Dr. Roger Macklin, Box 1100, Children's Hospital, Boston, MA 02115. Telephone: 617-782-6310. Equal Opportunity Employer.

POSTDOCTORAL FELLOW

Postdoctoral position available immediately at the University of Pennsylvania to study the PDGF-receptor. Familiarity with molecular biological and/or cell biological techniques required. Send curriculum vitae and three references to: Dr. C. D. Scher, Children's Hospital of Philadelphia, 34th and Civic Center Boulevard, Philadelphia, PA 19104. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP—UNIVERSITY OF MIAMI

ROSENSTEEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE

MARINE AND ATMOSPHERIC CHEMISTRY

A postdoctoral fellowship is available for up to 2 years, starting 1 June 1989. Applications are welcome in areas related to marine and atmospheric chemistry. Areas of current research include: global atmospheric transport, including sulfur and nitrogen species; analysis and turnover of trace metals and organics in the atmosphere and on ocean surfaces; and laser-based phase reaction kinetics; volatile sulfur compounds in atmosphere and oceans; biotransformations of aromatics and sulfur compounds; aqueous and gas phase photochemistry, the chemical and kinetic processes in seawater; tracer studies for modeling ocean circulation and mixing processes.

This fellowship could lead to a permanent faculty position. The Division occupies a new building with excellent laboratory facilities, including laser and fast kinetic instrumentation. We pursue vigorous field research program and we provide a good environment of cooperation and interaction among the faculty.

Salary: $26,000. Applications from J. M. Prospero, Chairman, Division of Marine and Atmospheric Chemistry, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149-1098.

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

POSTDOCTORAL FELLOWSHIPS—THE Lineberger Cancer Research Center of the University of North Carolina at Chapel Hill will have openings in 1989 to 1990 for persons completing graduate studies to train with excellent investigators in basic cancer-related research in tumor virology, chemical carcinogenesis, drug development, immunology and tumor immunology. Training is available in recombinant DNA technology, gene expression, DNA replication, mutagenesis, molecular enzymology, regulation of cellular proliferation, growth factors, immunogenetics, protein phosphorilation, and combined programs. Unique training resources and core facilities housed in the Lineberger Cancer Research Center. Candidates must be U.S. citizens or permanent residents. Send for brochure listing faculty and with application and three letters of recommendation, a statement of research interests, and graduate school records to: Director, CB# 7295 Lineberger Cancer Research Center, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599. UNC's Cancer Research Center is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Available immediately for work on redox proteins. The candidate should have considerable experience in bacterial growth, enzyme purification and characterization. Since this research will be performed at the Center for the Study of Early Events in Photosynthesis and involves radioactive techniques, the candidate must have knowledge in molecular biology, spectrophotometric and computer methods. However, this remains a position for a microbial enzymologist, provided such a discipline still exists.

Send curriculum vitae and letters of recommendation by 16 December 1988 to: Jean LeGall, Professor of Biochemistry and Microbiology, Department of Biochemistry, The University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Available immediately for work on redox proteins. The candidate should have considerable experience in bacterial growth, enzyme purification and characterization. Since this research will be performed at the Center for the Study of Early Events in Photosynthesis and involves radioactive techniques, the candidate must have knowledge in molecular biology, spectrophotometric and computer methods. However, this remains a position for a microbial enzymologist, provided such a discipline still exists.

Send curriculum vitae and letters of recommendation by 16 December 1988 to: Jean LeGall, Professor of Biochemistry and Microbiology, Department of Biochemistry, The University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP—POSTDOCTORAL POSITION—A postdoctoral position in organic chemistry is available immediately to conduct research on the use of free radicals in synthetic applications or organic chemistry and in the study of the mechanism of action of vitamin B12. A Ph.D. in organic chemistry is required, and prior postdoctoral experience is desirable. The title of the position will be research assistant professor of chemistry. Salary will be commensurate with experience, and prior postdoctoral experience is desirable. Please send résumé and names and addresses of references to: Dr. Paul Dowd, Department of Chemistry, University of Pittsburgh, Pittsburgh, PA 15260 by 31 December 1988. The University of Pittsburgh is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—Northwestern University in Chicago, Illinois, for experiments in molecular genetics and embryology. Experience in molecular biology desired. Salary negotiable, competitive and based on level of training. Inquiries should be sent to: Philip Iannaccone, M.D., Ph.D., Department of Pathology, Northwestern University, 303 East Chicago Avenue, Chicago, IL 60611.

POSTDOCTORAL POSITION

Opportunity available after 1 January 1989 for Ph.D. or M.D./Ph.D. postdoctoral person to work on molecular mechanisms of insulin action. Research will focus on the use of polyclonal and monoclonal antibodies to help characterize the composition, location and biologically active region of insulin-sensitive glycoprophospholipids which are involved in insulin mediator action. The research group which seems to function as a mediator of some of insulin's action. We already have some antibodies in use and numerous monoclonals to characterize. Applicant should have background in biochemistry with knowledge of phospholipid and carbohydrate chemistry as well as ability to develop and characterize antibodies. Send curriculum vitae and names of the references to: Dr. Leonard Jarett, Department of Pathology and Laboratory Medicine, Hospital University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104. The Hospital University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

Postdoctoral position within a multidisciplinary research group for the purification and characterization of enzymes of the chlorophyll biosynthetic pathway. Address curriculum vitae and three letters of recommendation to: Professor C. A. Rebeiz, University of Illinois, Laboratory of Plant Pigment Biochemistry and Photobiology, 1302 West University, Urbana, IL 61801.

POSTDOCTORAL POSITION

The Department of Biology announces a teaching-research postdoctoral position. Applications must be received by 15 January 1989. The successful applicant will be expected to teach a one-semester undergraduate course, with the remaining time devoted to research in the laboratory of a faculty sponsor. Applicants' research interests should be in one of the areas of ecological, evolutionary, and organismal biology, microbiology, or plant sciences. Applications should include a description of research interests and arrange for three letters of recommendation to be sent to: Dr. José Bonner, Department of Biology, Indiana University, Bloomington, IN 47408. Candidates whose applications are received prior to 15 March 1989 will be assured of consideration. Applications from women and minority group members are especially encouraged. Indiana University is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION—UNIVERSITY OF MASSACHUSETTS—BOSTON

Immediate opening to study translational regulation in the testis. Background in biochemistry, physiology, molecular biology, or monoclonal antibodies. Salary competitive. Send curriculum vitae, a brief description of research experience, copies of publications and names of three references by 2 January 1989 to: Dr. Kenneth C. Kleene, Department of Biology, University of Massachusetts, Boston, MA 02125. An Affirmative Action/Equal Opportunity/Title IX Employer.

SCIENCE, VOL. 242
SCIENCE, ENGINEERING, AND DIPLOMACY FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the U.S. Agency for International Development (AID) and the Department of State (STATE) is seeking applicants for approximately 12 Science, Engineering, and Diplomacy Fellows. Fellows will spend 1 year, beginning 1 September 1989, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the Department of State or in one of several bureaus and offices of the Agency for International Development. Other assignments may also be possible.

Prospective Fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work on scientific and technical subjects in international affairs; foreign policy for STATE and international development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: food and agriculture; health and population; nuclear nonproliferation; scientific exchange; forestry, natural resources and ecology; oceans and fisheries; communications; national security; and human resources and education, among others.

The Fellows will serve a 1-year appointment at a salary consistent with education level and experience, if possible, but not exceeding the GS-12 level (beginning at about $34,000). A security clearance process will be initiated after selection. The clearance must be obtained before a selectee can begin work in STATE or AID and the fellowship award is contingent upon the selectee obtaining this clearance.

Deadline for receipt of applications is 15 January 1989. For more information and application details write:

Science, Engineering, and Diplomacy Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600

BUILDING A NEW LAB?

LET THE SCIENCE FREE PRODUCT INFORMATION SERVICE PUT YOU IN TOUCH WITH THE VENDORS WHOSE PRODUCTS YOU WILL NEED.

SIMPLY WRITE US A LETTER STATING THE SPECIFICS ABOUT YOUR PROPOSED LAB AND WE WILL DO THE REST.

WRITE TO:

SCIENCE MAGAZINE
NEW LAB SERVICE DEPT.
1515 BROADWAY
NEW YORK, N.Y. 10036

EXECUTIVE BRANCH SCIENCE AND ENGINEERING FELLOWSHIP

Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for a 1-year Executive Branch Science and Engineering Fellowship to begin in early September, 1989. The fellowship program provides an opportunity for an accomplished and societally aware postdoctoral to mid-career scientist to participate in and contribute to the public policymaking processes within one of several agencies in the Executive Branch of the Federal government. Placement will be made at an appropriate Federal agency, based upon the agency's needs and the interests and expertise of the Fellow. Included in the fellowship program is an intensive science policy orientation and a year-long seminar series dealing with a wide array of science and technology issues.

Prospective Fellows may apply from any physical, biological, or behavioral science or any field of engineering. Qualified applicants must demonstrate exceptional competence in some area of science or engineering, be flexible, and have some experience and/or a strong interest in applying knowledge toward the solution of societal problems.

The 1989–1990 AAAS Executive Branch Science and Engineering Fellow will receive a stipend of $30,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

Applications must be submitted by 15 January 1989, with the award to be announced about 1 May 1989. For detailed program information and specific application requirements, write:

Executive Branch Science and Engineering Fellowship Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600

CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS

Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for two 1-year Congressional Science and Engineering Fellowships it will offer for the period beginning 1 September 1989. The fellowship program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policymaking processes within Congress. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological or behavioral science or any field of engineering. The term "science" is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. The AAAS runs a year-long seminar program for both its own Congressional Science and Engineering Fellows and those selected by the participating societies. Addresses of all participating societies are available from the address listed below.

The 1989–1990 AAAS Congressional Science and Engineering Fellows will receive a stipend of $30,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

The deadline for submission of application materials is 15 January 1989. The award will be announced about 1 May 1989. For detailed information on the program and specific application requirements, write:

Congressional Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600
POSITIONS OPEN

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL RESEARCH SERVICE

POSTDOCTORAL POSITION, available immediately at the Northern Regional Research Center, Peoria, Illinois, to study the molecular biology of linear plasmids in fungi. Applicants must have a Ph.D. and a background in molecular biology and microbiology or biochemistry. Previous experience with nucleic acids is essential. Ap- pointment is for up to 3 years with a starting salary of $28,852 (GS-11). Moving expense will be paid. Send curriculum vitae and names and telephone numbers of three references to: Dr. Paul L. Bolen, USDA–Agricultural Research Service, NRR, 1815 North University, IL 60640. Applications in response to this advertisement should be marked 8N043. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for x-ray diffraction analysis and computer simulation of semisynthetic enzymes. Experience in small or large molecule crystallography required. Send curriculum vitae and names and addresses of three references to: Dr. Brian P. Edwards, Department of Biochemistry, Wayne State University, 540 East Canfield Avenue, Detroit, MI 48201. An Equal Opportunity/Affirmative Action Employer.

CENTER FOR ADVANCED RESEARCH IN BIOTECHNOLOGY (CARB) UNIVERSITY OF MARYLAND POSTDOCTORAL POSITION
To carry out crystallographic studies of β-lactamase. Candidates should have experience in crystallography and keen interest in the structure and function of macro- molecules. State-of-the-art equipment is available. Send application including curriculum vitae and the names and addresses of three references to: Dr. Onnat Herzberg, CARB, 9600 Gudelsky Drive, Rockville, MD 20850.

POSTDOCTORAL POSITION available in protein chemistry to study the structure and function of noncollagenous bone proteins, particularly proteins which contain the vitamin K-dependent Ca2+ binding amino acid, V-carboxyglutamic acid. Send curriculum vitae and the names and telephone numbers of three references to: Dr. Paul A. Price, Department of Biology, B-022, University of California at San Diego, La Jolla, CA 92039. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available in programs investigating glial and neuronal responses in CNS/immunological diseases (Dr. S. Griffin) and CNS development and trauma (Drs. S. A. Gilmore and T. J. Sims). Applicants should have a recent Ph.D. in molecular biology and anatomy (electron microscopy). Send inquiries and curriculum vitae to: Dr. Sue Griffin, University of Arkansas for Medical Science, Department of Neurology, 430, West Markham, 5218, Little Rock, AR 72205. An Affirmative Action Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITIONS available for participation in a multiple-disciplinary approach to a study of the mechanism and structure of enzymes of polyol pre biosynthesis. The project, sponsored by NSF's Chemistry of Life Sciences Program, will involve techniques in enzymology, microbial genetics, and synthetic and physical organic chemistry. The Departments of Chemistry (W. W. Epstein and C. D. Foulter) and Biochemistry (H. C. Rilling) at the University of Utah and the Biochemistry Division of Amoco Corporation are participating.

Send research interests, curriculum vitae, and names of three references to: H. C. Rilling, Department of Biochemistry, University of Utah, Salt Lake City, UT 84132.

POSTDOCTORAL POSITIONS available immediately for microbial geneticists to join active DNA Repair Group using molecular biological, enzymatic and immunological techniques. Good salary, entertainment group, well-funded program, great environment. Quali- fied candidates should submit curriculum vitae and the names of three references to: W. V. characterization of nucleic acids and proteins is desirable. Send resume and three references to: Dr. T. J. Bardos, Olds-Hovey Hall, SUNY, Buffalo, NY 14260. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION IN BIOCHEMISTRY/IMMUNOLOGY Haskell Laboratory for Toxicology and Industrial Medicine, E. i. du Pont de Nemours & Co., Inc., an equal opportunity employer, has an open postdoctoral position for research in molecular mechanisms of lethal effects of industrial chemicals. The successful candidate should have a Ph.D. in biochemistry, with a background in molecular biology. Start date is available as soon as possible. Send curriculum vitae and names and addresses of three references to: Dr. Paul L. Bolen, USDA–Agricultural Research Service, NRR, 1815 North University, IL 60640. Applications in response to this advertisement should be marked 8N043. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS CLINICAL CHEMISTRY WASHINGTON UNIVERSITY
We are recruiting individuals with the M.D. and/or Ph.D. degree with a strong motivation for training in clinical chemistry. This is our first position. Our unique program, now in its 12th year, provides the opportunity for academic clinical chemistry training in one of the largest Laboratory Medicine Divisions in the country. In addition to clinical training, candidates will actively participate in an area of active research. Current areas of faculty interest include: antibody response to carbohydrate and protein antigens, effect of lymphokines on B cell development, mechanisms(s) of insulin action, rapid diagnosis of myocardial infarction, mechanisms(s) of the action of nutrients and electrolytes, and association behavior of multi-subunit proteins. Two to three candidates are generally accepted per year. For further information please contact: Jack ten Degen, Ph.D., Division of Laboratory Medicine, Washington University School of Medicine, 660 South Euclid Avenue, Box 8118, St. Louis, MO 63110.

POSTDOCTORAL POSITIONS IN MOLECULAR NEUROBIOLOGY for individuals interested in an interdisciplinary approach to the study of receptor-operated ion channels, with emphasis on GABA and excitatory amino acid receptors. Techniques include molecular biology, radioligand binding, photolabeling, ligand-stimulated ion flux, monoclonal antibodies, patch-clamp electrophysiology, and fluorescence digital imaging microscopy. Salary is $30,000. Send curriculum vitae to: Dr. David Farb, Department of Anatomy and Cell Biology, SUNY Health Science Center, 450 Clarkson Avenue, Brooklyn, NY 11203. Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF AGRICULTURE AGRICULTURAL RESEARCH SERVICE

POSTDOCTORAL RESEARCH AFFILIATE, phytosystem research, Urbana, Illinois. Temporary position not to exceed 2 years is available to investigate a proton–ammon amino acid symport recently identified in plant plasma membrane vesicles. A recent Ph.D. with considerable experience in membrane biochemistry or biophysic- ian is required. Knowledge of molecular techniques is desirable. The annual salary is $19,493 to $23,846 with fringe benefits. Please submit curriculum vitae, names and addresses of three references, and copies of relevant papers or pre- prints to: Dr. Daniel R. Bush, USDA/ARS, University of Illinois, 289 Morrill Hall, 505 South Goodwin Avenue, Urbana, IL 61801; Telephone: 217-333-6109. Applications should be marked 8N042. USDA is an Equal Opportunity Employer. Women and minorities are urged to apply.

POSTDOCTORAL RESEARCH POSITION for Ph.D./M.D. is available immediately to work on Hormone Metabolism and Action to study molecular mechanisms of hormone action including gene expression, protein–DNA interactions and thyroid hormone receptors. Inter- ested applicants should submit curriculum vitae, names and names of three references to: V. Nikodem, Ph.D., National Institute of Diabetes and Digestive and Kidney Diseases, Building 10, Room 9N317, 9000 Rockville Pike, Bethesda, MD 20892. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH POSITION, immediately available immediately for study of structural modifications on the biological activities of nucleic acids, synthetic oligo- and polynucleotides, using enzyme and cell culture systems. Experience in the isolation and characterization of nucleic acids or proteins is desirable. Send resume and three references to: Dr. T. J. Bardos, Olds-Hovey Hall, SUNY, Buffalo, NY 14260. An Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

SAINSBURY LABORATORY—NORWICH POSTDOCTORAL RESEARCH ASSOCIATE TO INVESTIGATE GENE REGULATION IN PLANTS
Applications are invited from suitably qualified applicants to work on a project entitled 'Hormonal and Developmental Control of Plant Growth.' The aim of the project is to examine gene regulatory mechanisms affecting expression of a amylose carbohydrate-binding lectin of a salt-tolerant H-like genus of wheat. This will involve detailed dissection of its action elements using transient expression systems and transgenic plants and analysis of new acting factors. Applicants should have an interest and experience in molecular biology in plant, animal, or microbial systems.

The current posts are funded for up to 3 years by the EPSRC. The salary will be in the range £29,865 to £31,876 per annum on the research assistant 1A grade (levels effective 1 March 1988). Applications should be made to: Dr. David Saulscombe, The Sainsbury Lab- oratory, John Innes Institute, Colney Lane, Norwich NR4 7UH, UK, from whom further details can be obtained.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITION available 1 January 1989 for a qualified individual (position ii) telephone 307-721-1501 for both intellectual and recreational pursuits. Federal law re- quires proper documentation of identity and employability at the time of employment. Send curriculum vitae and names and addresses of at least three references by 31 December 1988 to: Jonathan Nyce, Ph.D., Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE to participate in NCI-funded study on molecular mecha- nisms of drug resistance. East Carolina University is a constituent institution of the University of North Carolina, is situated on the beautiful coastal plain of Eastern North Carolina, and offers excellent facilities for both intellectual and recreational pursuits. Federal law re- quires proper documentation of identity and employability at the time of employment. Send curriculum vitae and names and addresses of at least three references by 31 December 1988 to: Jonathan Nyce, Ph.D., Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858. An Equal Opportunity Employer.

UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) AGRICULTURAL RESEARCH SERVICE

ARS is seeking the following for POSTDOCTORAL RESEARCH ASSOCIATE appointments at its facili- ties on the University of Wyoming Campus: (i) Geneti- cist to work in the arctic tundra studying the genet- ics of insect disease vectors using recombinant DNA technology. Experience in eukaryotic genetics and molec- ular biology desirable; (ii) Molecular virologist to char- acterize neutralizing epitopes on the proteins of blue- tongue virus. Experience in molecular virology and immunology desired. Salary $27,716 to $35,218 depending on experience. For additional information on the research project contact Dr. Walter J. Tabachnick (position i) telephone: 307-721-0313 or Dr. James O. Poss (position ii) telephone: 307-721-1501. For information on application procedures, contact: Julia A. Murchison, 301-344-3138. Applications in re- ceptio...
The University Corporation for Atmospheric Research
Seeks Nominations and Applications for the
DIRECTOR
NATIONAL CENTER FOR ATMOSPHERIC RESEARCH

NCAR is a research laboratory based in Boulder, Colorado and operated by the 58-university consortium UCAR under contract with the National Science Foundation. In concert with the university community, the Center carries out research on fundamental problems in atmospheric and oceanic sciences, and develops and operates major research facilities. NCAR's research includes large-scale dynamics, cloud and mesoscale phenomena, climate, atmospheric chemistry, the sun and interplanetary medium and the interactions between the atmosphere and the oceans, the biosphere, and human activities. Current facilities are in computing, aviation, field observations, and global atmospheric measurement techniques.

The Director is the executive and scientific leader of NCAR, and reports to the President of UCAR. To be considered, candidates must be able to lead on a broad intellectual front, and must possess a significant record of scientific or technical achievement, and a demonstrated ability for the successful planning, management, and administration of complex research activities.

UCAR intends to fill the position by the summer, 1989. To receive full consideration, applications and nominations should be directed to the address below by 31 January 1989. A full job description may be requested from Ms. Harriet B. Crowe or Ms. Dianne J. Bernier at the address below. Inquiries for other information may also be addressed to Ms. Crowe (303) 497-1657 or Ms. Bernier (303) 497-1655 at UCAR.

SEND APPLICATIONS AND NOMINATIONS TO: Dr. C. E. Leith, Chairman, NCAR Director Search Committee, c/o H. B. Crowe, University Corporation for Atmospheric Research, P.O. Box 3000, Boulder, CO 80307. UCAR is an Equal Opportunity/Affirmative Action Employer.

RJR-LEON GOLBERG
MEMORIAL FELLOWSHIPS
Postdoctoral Training Opportunities in Integrated Toxicology

Duke University and RJR Tobacco Company now have established training fellowships honoring the eminent toxicologist, the late Dr. Leon Golberg. The program consists of over 50 faculty members representing a wide variety of disciplines including chemistry, ecotoxicology, biochemistry, cell biology, molecular biology, pathology and pharmacology. Emphasis is placed on molecular mechanisms of toxicity, in which this Program is pre-eminent. A competitive stipend will be offered. Fellows will have the opportunity to spend at least 2 years at Duke or RJR, under the guidance of one faculty member and to interact extensively with other faculty members. Interested individuals should send a C.V., a description of their current research project, and the name and addresses of 3 references to:

Doyle G. Graham, M.D., Ph.D.
Integrated Toxicology Program
Box 3712
Duke University Medical Center
Durham, N.C. 27710

Duke University and RJR Tobacco Company are Equal Opportunity Employers
POSTDOCTORAL/RESEARCH ASSOCIATE
POSITION available now. Biochemistry/cell biology/ pharmacology. Research involves the role of a natural purine and its analogues on cell development, malignant expression, and cell surface carbohydrates. Salary negotiable. One reference. Send curriculum vitae, reprints and names of three references to: Dr. Douglas Armstrong, Cancer Research Center, Box 10010, North Torrey Pines Road, La Jolla, CA 92037.

An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE
POSITION available now. Molecular biology. Research involves the role of protein phosphorylation in the infection of CD4+ T-cells by HIV-1. A reasonable candidate should have available developing immunogenic vaccines to HIV-1 utilizing genetic engineering. Experience in molecular biology and/or cellular immunology is desirable. Send curriculum vitae and three letters of reference to: Dr. Stephen E. Wright, Texas Tech University School of Medicine, Department of Internal Medicine, 1400 Wallace Boulevard, Amarillo, TX 79106–1797.

NEW YORK UNIVERSITY MEDICAL SCHOOL
POSTDOCTORAL/RESEARCH OPPORTUNITIES
Applications are invited for postdoctoral research beginning in winter/spring 1989 to study: (i) Mechanisms of signal transduction and induction of gene transcription through cell surface receptor activation of mammalian cells by cytokines; and (ii) Role of interferons and other cytokines in the regulation of cell growth. Experience in eukaryotic molecular biology and/or biochemistry is desirable. Applications must be eligible for funding from the NIH (U.S. citizens and permanent residents). Send letters of application, curriculum vitae, and names and addresses of three references to: Dr. David E. Levy, Department of Pathology, NYU Medical Center, 550 First Avenue, New York, NY 10016. Minorities are particularly encouraged to apply.

The University of California, San Diego is seeking a Ph.D. applicant for a POSTGRADUATE RESEARCHER (PGR). Candidates should have experience in molecular biology and retrovirology or herpesvirology to conduct research in AIDS pathogenesis and the role of viral cofactors. Position available immediately for at least 2 years. Salary range based on University of California policy. Interested individuals should send curriculum vitae with a list of three references no later than 28 February 1989 to: Stephen A. Spector, M.D., Associate Professor, Department of Pediatrics, UCSD Medical Center, 225 Dickinson Street (H 811A), San Diego, CA 92103. Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF ZOOLOGY
UNIVERSITY OF HAWAII
PROFESSOR IN MOLECULAR BIOLOGY
We seek a senior faculty member with research interests in the biology of nucleic acids, proteins, carbohydrates or lipids. Applicants should: (i) have an active research program focused on basic biological questions at the molecular level such as gene action and regulation, molecular evolution, or adaptive metabolism, and (ii) have an outstanding undergraduate program in the area of molecular biology. The successful applicant will be selected on the basis of leadership potential to serve as Department Chair, outstanding research accomplishments, and commitment to teaching excellence. We are particularly interested in individuals who enjoy interacting with students, who have an active research interests, and whose research will thrive in the unique environment of the Hawaiian archipelago. The position is available as early as 1 August 1989. Send curriculum vitae, reprints and names of three references to: Dr. Robert A. Kinzie III, Chair, Search Committee, Department of Zoology, University of Hawaii, Honolulu, HI 96822. Deadline for applications is 1 February 1989. The University of Hawaii is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH POSITION
MOLECULAR GENETICS OF MAMMALIAN CELL GROWTH CONTROL
MAYO CLINIC/MAYO FOUNDATION
Postdoctoral position available 1 January 1989 to study the molecular and cellular biology of peptide growth factors. Research involves the identification and cloning of growth factor-regulated genes and the delineation of specific protein–DNA interactions involved in transcriptional control. Applicants should possess a strong background in one or more of the following areas: recombinant DNA methodology; protein biochemistry; mammalian cell culture techniques. Send curriculum vitae, reprints and names of three references to: Dr. Michael J. Getts, Department of Biochemistry and Molecular Biology, Mayo Clinic/Mayo Foundation, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL/RESEARCH SCIENTISTS are being recruited for undertaking cellular and molecular studies on the role of growth factors in development and differentiation of the male reproductive system. Research will include: (i) mechanisms of growth factor signal transduction and pleiotropic responses in somatic cells, (ii) role of secreted proteins in promoting the differentiation of germ cells. Send curriculum vitae to: Dr. Anthony R. Bellve, Center for Reproductive Sciences, F.S.C. Bldg., Columbia University, 650 West 168th Street, New York, NY 10032.

RESEARCH ASSISTANT PROFESSOR
Department of Physiology and Biophysics is seeking candidates for a position of research assistant professor to conduct research and teach in cellular neurophysiology. Applicants should possess a Ph.D. in neuropharmacology or neuroscience, and at least 4 years of postdoctoral experience. In particular we are seeking candidates with major area of interest and research experience in cellular neuropharmacology and cellular neurophysiology as well as publications in professional journals. Also advantageous will be previous experience in neuronal tissue culture and co-cultures. Send resume to: Dr. Nicholas Sperelakis, Physiology and Biophysics Department, College of Medicine, University of Cincinnati, Cincinnati, OH 45267–0576.

The University of Cincinnati is an Equal Opportunity Employer.

RESEARCH ASSOCIATE for a university in north-east Ohio to prepare and characterization of novel liquid crystal substances. Involves the use of thermal and light scattering studies to augment understanding of liquid crystal phases and phase transitions and to reveal their relationship to the broader scheme of condensed matter physics. Requirements are Ph.D. in organic chemistry or physics, and 4 years of experience in advanced research on liquid crystals. Forty hours per week, 8 a.m. to 5 p.m., $22,000 per year. Qualified applicants reply by resume to: C. Bussard, J06 0007871, Ohio Bureau of Employment Services, 150 South High Street, P.O. Box 1618, Columbus, OH 43216.

RESEARCH ASSOCIATE, POSTDOCTORAL, OR MASTER'S DEGREE WITH EXPERIENCE to study theoretical (evolutionary biology, ecology) and applied (invertebrate biology) populations genetics of marine vertebrates and invertebrates. Experience in techniques of obtaining, and analysis of, mitochondrial DNA and somatic DNA variation patterns is required. Knowledge of DNA sequencing techniques and proven publication ability is desirable. Position is located in a state-of-the-art genetics laboratory and salary is $22,000 to $25,000 per annum, benefits not included. Send curriculum vitae, names of three references, recent publications and a description of your research experience to: Dr. Barry Getz, 7105 East Ave., B.0. 1, Department of Biology, University of Hawaii, Honolulu, HI 96822. Attn: Dr. Max Costa, 1 January 1989. Our laboratory is located on the island of Oahu, and we are seeking individuals with a Ph.D. in molecular biology or related fields. Send curriculum vitae and letters of reference to: Dr. Max Costa, Professor and Deputy Director, Institute of Medicine, New York University Medical Center, 550 First Avenue, New York, NY 10016. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT, UROLOGY
The Division of Urology at Rhode Island Hospital, the primary affiliate of the Brown University Program in Medicine, has a full-time position available for a molecular biologist/urologist who has expertise in molecular cloning and bacterial expression systems. The person will be responsible for cloning DNA sequences which code for urinary proteins, and for understanding the regulation and production of these proteins. The division has a strong research program in molecular urology, and is interested in understanding the role of genetic and environmental factors in the development of bladder cancer and kidney disease. The position is available immediately. Excellent salary and benefits are available. Send curriculum vitae and three letters of recommendation to: Dr. Barry Stein, M.D., Chairman, Division of Urology, Brown University, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903. The University of Rhode Island and Brown University are Equal Opportunity Employers.
University of Nebraska—Lincoln
Department of Geology

Applications for two, full time, tenure-track positions in organic or inorganic geochemistry, microanalytical techniques and/or sedimentary geochemistry are invited. Ph.D.'s required. Successful candidates will be expected to teach introductory and advanced undergraduate and graduate courses; supervise masters and doctoral research; develop appropriate courses in research specialty; interact with current faculty and develop a vigorous, externally-funded research program that complements current departmental strengths in groundwater geochemistry, carbonaceous nannofossils, Cenozoic stratigraphy, and vertebrate paleontology. Position descriptions are broad and general because our first priority is to hire two highly qualified, excellent scientists.

The organic or inorganic geochemist must be interested in developing a program in aqueous, low-temperature geochemistry. The microanalyticalist must be experienced in Cenozoic and Mesozoic geology with research interests in high productivity areas or high latitudes and/or evolutionary tempo and mode. The sedimentary geochemist must have, or be interested in developing, strengths in waterrock interaction as related to diagnosis and contaminant movement and must be able to teach a course in process-oriented sedimentology.

The department has 14 faculty, including qualified staff from the State Museum and State Geological Survey who also teach and directing the work of graduate students, and three technicians. It is housed in modern, newly-renovated quarters and is equipped with extensive instrumentation including a new JEOL T-330 SEM with KEVEX Delta 4 Quantum EDS, a fully equipped microanalytical preparation laboratory, a wet chemistry laboratory, an A.A. unit and an automated, computer-driven particle-size analyzer. Computer facilities include a VAX 750 and a broad array of IBM PC's, printers and software for faculty and student use. Graduate student and faculty research emphasizes the integration of field and laboratory studies, primarily in soft-rock geology and hydrogeology.

Applicants should send a current curriculum vitae, copies of transcripts, lists of publications and courses taught, description of research and the names and addresses of three references to: Chairman, Geology Search Committee, 214 Bessey Hall, Department of Geology, University of Nebraska-Lincoln, Lincoln, NE 68588-0340. Additional information available at (402) 472-2863. The evaluation of applications will begin on January 16, 1989, and continue until both positions are filled.

Affirmative Action/Equal Opportunity Employer

Senior Development Scientist
Plasma Products

A prestigious leader in the pharmaceuticals industry, we've recently earned a reputation for breakthrough research in the area of biotechnology. As a result of strong and continued growth, we currently seek a creative and experienced professional to join us at our state-of-the-art Midwestern production facility.

Responsibilities include supervision of projects involving large-scale use of monoclonal antibodies and the industrial application of affinity chromatography. Candidate will also provide technical support for manufacturing departments, pilot plant, and outside suppliers of ascites or monoclonal antibodies, while assisting in the introduction of new biotechnology processes through creative and innovative techniques. For this demanding supervisory position, we require a Ph.D. in Biochemistry or closely related discipline, with a degree in Bioengineering. Supervisory experience is essential.

If your qualifications meet our needs, we can offer you an excellent salary, medical/dental/life insurance, 401(k), bonus plan and relocation program. So come and discover the possibilities. You'll like what we have to offer. Please send your resume to:

Box 176, Science
1515 Broadway
New York, NY 10036

Equal Opportunity Employer

Research Scientists
Pharmacology of Inflammation

Two positions are available within the Department of Biochemical and Molecular Pathology of Merck Sharp & Dohme Research Laboratories which is engaged in multidisciplinary studies aimed at developing novel therapeutic agents for treatment of inflammatory diseases. For both positions we seek creative and enthusiastic scientists with excellent communication skills and with post-doctoral experience.

Position 1 - Cardiovascular/Pulmonary Pharmacologist, will involve the design and execution of experiments to evaluate novel agents of potential therapeutic importance in animal models of shock and inflammation. Qualified candidates will have expertise in the measurement and evaluation of cardiovascular and/or pulmonary function in vitro and in laboratory animals (eg. rodents, dogs, sheep, swine, non-human primates).

Position 2 - Cellular Pharmacologist/Electrophysiologist, will involve the investigation of the inter-relationships between transmembrane ion flux and ligand-mediated activation of inflammatory and immune cells. Qualified candidates will have expertise in electrophysiological and/or other techniques that can be applied to probe ionic aspects of signal-transduction processes.

Merck Sharp & Dohme Research Laboratories are located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. Interested candidates should submit their curriculum vitae with the names of three references and salary requirements to: Ms. Lonnie Deetz, R80M-TL1, Merck & Co., Inc., P.O. Box 2000, Rahway, NJ 07065.

An equal opportunity employer.

Merck & Co., Inc.
Ph.D.-LEVEL SCIENTIST with experience/intest in physiology and/or cell biology of healing epidemias, especially with respect to ocular tissues, needed for growing biotech company in La Jolla area. Start immediately.

POSTDOCTORAL POSITION to study the pathology/histology or physiology of some aspect of wound healing also available. Approximate starting date mid-1989. Send resume to: Telios Pharmaceuticals, 2909 Science Park Road, San Diego, CA 92121. Attention: WH.

RESEARCH FACULTY POSITION

The Public Health Research Institute (PHRI) invites applications for a position in the research faculty at either the junior or senior level. Candidates must have training and experience in the highest quality and an exciting research program addressing fundamental questions in eukaryotic or prokaryotic cell biology, virology, or molecular genetics. The research program must be funded or, in the case of a junior applicant, eminently fundable.

The PHRI is an independent, not-for-profit research organization founded in 1942. Its current programs center on basic molecular biology and molecular genetics.

The PHRI offers an excellent research environment and laboratory facilities, start-up funds, and a generous benefits package.

Candidates should submit curriculum vitae, a statement of research interests and accomplishments, and a list of five references. Review of applications will begin on 11 December 1988, but applications will be accepted until the position has been filled. Applications should be sent to: Leonard Heldrich, Chair, Recruiting Committee, Public Health Research Institute, 455 First Avenue, New York, NY 10016.

The PHRI is an Equal Employment Opportunity Employer.

RESEARCH OPPORTUNITIES at the National Center for Toxicological Research (NCTR)—Opportunities for faculty and postgraduates to conduct collaborative research at NCTR, a Food and Drug Administration laboratory in central Arkansas. Research efforts focus on testing the assumption used in assessing risks posed by toxic chemicals emphasizing studies in biomarkers, modulators of toxicity, and extrapolation/risk assessment. U.S. citizenship or FRA status required. For more information contact: Research Participation Program at NCTR, University Programs Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117, telephone: 615-767-3190. Please indicate interest in faculty and/or postgraduate program.

SCIENCE EDUCATION—ASSISTANT PROFESSOR position at Southern Connecticut State University, Department of Oceanography—tenure-track). Doctorate, an interest in science education, and research potential in science education required; strong background in basic and school teaching experience preferred. Responsibilities include conducting research and directing graduate programs in science education, service, obligations and teaching undergraduate courses in elementary science education and graduate courses in science education for prospective and current elementary and secondary teachers. Available 1 September 1989. Send a letter of application, a brief description of research interests, available publication samples, curriculum vitae, and three letters of reference to: Dr. William B. Stanley, Chair, Department of Education—American Studies, 119 Hill, College of Education, University of Delaware, Newark, DE 19716. Applications received by 6 February 1989 will be given first consideration. Tenure-track appointments will be accepted until position is filled. Inquiries about the position should be made to: Dr. Nancy W. Brickhouse, Search Committee Chair. The University of Delaware is an Equal Opportunity Employer which encourages applications from qualified minority groups and women.

Louisiana State University (LSU) Eye Center is looking for a SENIOR PHARMACOLOGIST. Applicant should be interested in drug delivery systems, although other areas of research will be considered.


RESEARCH SPECIALIST, MOLECULAR BIOLOGY, ARIZONA STATE UNIVERSITY

A Ph.D.-level research specialist in molecular biology is sought by the Department of Botany for the newly established ASU Center for the Study of Early Events in Photosynthesis. Expertise in oligonucleotide synthesis, DNA sequencing and site-directed mutagenesis is required. Preference will be given to individuals with experience in photosynthesis research. The successful candidate will be involved in collaborative research and will be encouraged to develop an independent research program.

The position, pending final budgetary approval, is initially funded for 4 years (12-month appointment). Applicants should submit their curriculum vitae, a statement of research interests and history, and letters of reference to: Wim Vermaas, Search Committee Chair, Department of Botany, Arizona State University, Tempe, AZ 85287-1061.

Review of applications will begin 30 January 1989 and continue until a suitable applicant is selected. ASU is an Equal Opportunity/Affirmative Action Employer.

SENIOR PROFESSORSHIP IN THE SPACE SCIENCES UNIVERSITY OF CALIFORNIA, LOS ANGELES

UCLA seeks an outstanding scientist, theoretical or experimental, in the space sciences, broadly construed as any physical science dependent upon, or stimulated by, data collected by space techniques. The appointment may be singly in any one of the Department of Astronomy, Atmospheric and Space Science, Earth and Space Sciences, or Physics, or jointly between departments and/or the Institute of Geophysics and Planetary Physics.

Strengths of UCLA that the appointment might complement include: space plasma physics, solar-planetary relationships, climate dynamics, star formation, cosmochemistry, and planetary sciences.

Interested individuals should contact: Professor William M. Kaula, Department of Earth and Space Sciences, University of California, Los Angeles, CA 90024—1567. Telephone: 213-825-4365. UCLA is an Affirmative Action/Equal Opportunity Employer.

SENIOR RESEARCH FACULTY.

(i) Biomaterials/Bioengineering, (ii) Craniofacial Growth & Development, (iii) Epidemiology, (iv) Immunology/Microbiology.

The University of Southern California (USC) School of Dentistry has opened searches to identify up to four experienced scientists in the above disciplines. Tenured or tenure-track appointments will be made at the associate professor or professor level as appropriate. Individuals must have demonstrated the ability to establish and maintain a well-established research funding and have well-established programs that could link with the research interests of the clinical faculty. Individuals would also be expected to maintain an involvement with headquarters and in the teaching programs of the school. The University of Southern California is an AAU member and offers many exciting opportunities for interdisciplinary collaborative efforts. USC is an Equal Opportunity/Affirmative Action Employer. For further information or for consideration, contact: Howard M. Landenson, D.D.S., M.Ed., Executive Associate Dean, USC School of Dentistry, University Park, Los Angeles, CA 90089—0641.

STATISTICIANS (TWO) EVALUATIONS DEPARTMENT

We are looking for two statisticians (M.S. or B.S. with 2 to 5 years experience). We need two positions in Ciba Corning Diagnostics’ Department of Clinical Evaluations and Statistics (one opening in Oberlin, Ohio and one in Tarrytown, New York). The candidate will work with scientists and engineers in all phases of evaluations by coordinating laboratory experiments, providing data analysis using computer and SAS programs, analyzing data using SAS, and managing external clinical trials. Experience with data management, statistics, and clinical chemistry is desired as well as an interest in working intensely with data. Please send your resume and salary requirements to: Ciba-Corning Diagnostics, Human Resources Department, 132 Artino Street, Tarrytown, NY 10591. Ciba-Corning Diagnostics is an Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH PROGRAM DIRECTORS

California Institute of Biological Research (CIBR), a non-profit institute, has recently been established with financial support from Stratagenthe La Jolla, CA. The Institute will encourage the growth of basic research in the Department of Pharmacology at the Salk Institute, Institute of Scripps Clinic, Medical Biology Institute, La Jolla Cancer Research Center and the University of California, San Diego. CIBR will consist of laboratories with research interests in eukaryotic gene regulation, oncogenes, cellular and molecular transformation, control of immune responses, molecular biology of differentiation, and mammalian development. CIBR research programs are funded by extramural granting agencies and aided by significant core supplementation. Its research laboratory directors may also serve as consultants to Stratagenenthe opportunity to engage in collaborative projects. Investigators with appropriate research interests are encouraged to apply.

Send curriculum vitae to: Personnel, California Institute of Biological Research, 11099 North Torrey Pines Road, La Jolla, CA 92037.

STAFF TOXICOLOGIST: Responsible for Quality Assurance Unit for preclinical testing programs involving small mammal testing and for coons watch of cemopment of safety, industrial hygiene and environmental safety monitoring and training programs. Assists design of testing protocols, audits facilities, and reviews data collection procedures and final reports to ensure compliance with good laboratory practice regulation. Participates in desing of experiments, management laboratory analysis and with federal, state, and local regulations governing industrial safety and hygiene and environmental safety and in design and implementation of training programs for hazardous material and hazard waste. Requires Ph.D. biology, veterinary science or animal science with specific coursework in toxicology, experimental biology and experimental animal science. One year’s graduate or postgraduate research experience in biochemical research, environmental toxicology, regulations governing toxic substances, good laboratory practice, and industrial safety. Salary: $32,500 per year. Job site and interview: Irvine, California. Send this ad and curriculum vitae to: Kendall McGowen, P.C., P.O. Box 25080, Santa Ana, CA 92799—5080, Attention: Pat Correa no later than 2 January 1989.

TWO TENURE-TRACK FACULTY POSITIONS IN NEUROSCIENCE are available at Florida Atlantic University assigned to a new multidisciplinary program in Complex Systems and the Brain Sciences (neurophysiology). Level of appointment is open. We seek outstanding individuals capable of generating strong extramural support wishing to work in an explicitly interdisciplinary environment that includes physics (nonlinear dynamics), computer science and psychology. The broad aim of this program is to further our understanding of pattern generation/formation in the nervous system and its relation to behavior through a synergy among theory, computation, and experiment at different levels of description. Among the areas of research interest are: integrative neurobiology, with emphasis on sensorimotor systems; cellular/molecular processes in neuronal growth and development; neuromodulatory influences on neuronal circuits and functional regeneration/plasticity in the vertebrate nervous system; studies of so-called mid-range neural networks and their relation to behavioral function; neurobiology of sleep and/or circadian behavior using multiple electrode recording techniques.

Salary, start-up funds, and teaching load are attractive. Institute is in a beautiful, coastal location in close proximuty to the Salk Institute, Institute of Scripps Clinic, Medical Biology Institute, La Jolla Cancer Research Center and the University of California, San Diego. CIBR. Please send curriculum vitae to: J. A. Selkow, Center for Complex Systems, Building MT-9, Florida Atlantic University, Boca Raton, FL 33431. CIBR is an Equal Employment Opportunity/Affirmative Action Employer.
GENEX CORPORATION
A leader in Protein Engineering
is looking for people to work as part of an innovative research and marketing team in the development of novel protein products.

PROFESSIONAL RESEARCH POSITIONS
Candidates with a Ph.D. and at least two years of postdoctoral experience are required for the following positions. Successful candidates will have good communication skills and the ability to supervise the research of junior staff.

Molecular Geneticist: Individual to direct and participate in the genetic engineering of novel proteins. Hands-on experience in techniques of gene cloning and expression of heterologous proteins is required, and a background in gram-positive molecular genetics is preferred.

Protein Crystallographer: Candidates with expertise in crystallography, protein engineering, graphics, and related disciplines are invited to apply. This individual will participate in applying three-dimensional structural data to the alteration of protein stability properties and enzyme active sites.

Protein Chemist: Candidates with expertise in the isolation and physical characterization of proteins and a background in protein modification, immobilization, and protein-protein interactions are sought. Experience in HPLC, affinity chromatography, and related methods of purification is preferred.

Analytical Biochemist: Individual to manage and participate in the development of HPLC methods for the purification and characterization of proteins and provide HPLC services to various research programs. Practical experience in protein analytical methods and instrumentation is essential.

RESEARCH ASSOCIATE POSITIONS
Bachelor’s or Master’s degree holders in the above areas are also required. Candidates should have experience in one or more of the following areas: molecular genetics, protein chemistry, biophysical chemistry, immunochemistry, and enzymology. Skills in HPLC purification, computer programming, and/or the growing of macromolecular crystals are especially desired.

PRODUCT DEVELOPMENT POSITIONS
Candidates should have Bachelor’s or Master’s degrees in biology, chemistry, or a related field, along with experience in relevant disciplines and good organization and communication skills.

Product Development Manager: Candidate should have experience in the development of laboratory separation products. Individuals with experience in LC, electrophoresis, and ELISA and an understanding of immunochemicals and their applications are preferred.

Applications Biochemist: Candidate will have hands-on experience in protein purification, HPLC and immunoassays. To assist in market development of Genex products by developing product-based applications and providing technical service to customers.

Field Sales Representatives: Candidates should have experience in selling to the biochemistry and analytical chemistry marketplace. Products will include affinity proteins, chromatography separations media, purifications devices and sample preparation devices.

GENEX provides an outstanding research environment, competitive salaries, comprehensive benefits, and the chance to excel with a fast-growing industry leader. We invite you to forward your resume, including salary requirements and an indication of which position you are applying for, to: Ms. Trisha Whelan, Genex Corporation, 16020 Industrial Drive, Gaithersburg, MD 20877. Genex is an Equal Opportunity Employer.
University seeks a SENIOR RADIOBIOLOGY/BIOPHYSICIST for a tenured appointment as a Professor of Medical Sciences. Individuals at Brown University who may be candidates have been identified. Should have at least 10 years of experience and demonstrated success in teaching undergraduate, graduate and thesis supervision for Ph.D. candidates. Should have demonstrable ability to interact with other investigators in Oncology, Pathobiology, Pharmacology. Will supervise a cell sorting facility. Applications should be received by 15 January 1989. Addressed to: Arvin S. Glickman, M.D., Department of Radiation Medicine, Brown University, Box G, Providence, RI 02912.

Brown University is an Equal Opportunity/Affirmative Action Employer and actively solicits applications from qualified protected and minority groups.

SENIOR RESEARCH ASSOCIATE in forensic toxicology. Includes research, development, and teaching, specifically in areas addressing functions of a working forensic toxicology service laboratory providing analytical and interpretive information to the medical examiner and law enforcement communities. Specific areas of work are determination of drugs and poisons in biological fluids to both refuging laboratories and in tissue samples submitted under law enforcement. Teaching in related area such as pharmacokinetics. Must be able to write and make presentations well. Publication expected. Applications received by January 15, 1989. Two years of experience in a forensic toxicology laboratory required. Salary: $22,932. Send résumé to: Jack Hilsheim, Tennessee Job Service, 1309 Poplar, Memphis, TN 38104. An Equal Opportunity/Affirmative Action Employer.

NORTHERN ARIZONA UNIVERSITY DEPARTMENT OF BIOLOGICAL SCIENCES TWO TENURE-TRACK POSITIONS VERTEBRATE BIOLOGIST: We invite applications and nominations for a tenure-track position to be filled at the assistant/associate professor level beginning 1 July 1989. Applicants must exhibit proven research productivity and be prepared to develop an independent research program. Postdoctoral research experience is desirable. Individuals with research interests in areas such as behavior, biogeography, ecology, evolution, physiological ecology, population genetics, or systematics are especially encouraged to apply. The successful candidate will contribute to both undergraduate and graduate curricula. We particularly seek applications from women and minorities.

CELL/MOLECULAR/MICROBIAL BIOLOGIST: We anticipate an additional opening for a tenure-track position in the area of cell/molecular/microbial biology at the assistant professor level to begin 1 July 1989. Applicants should exhibit proven research productivity and be prepared to teach undergraduate microbiology as well as to contribute to the graduate curriculum. Postdoctoral research experience is desirable. Women and minorities are strongly encouraged to apply.

Curriculum vitae, a statement of research plans, representative reprints, and four letters of recommendation should be submitted by 15 January 1989 to: Chairman, Department of Biological Sciences, Box 5640, Northern Arizona University, Flagstaff, AZ 86011. Northern Arizona University is an Affirmative Action/Equal Opportunity Employer.

Sharon Marston, Chair, Department of Biological Sciences, Box 5640, Northern Arizona University, Flagstaff, AZ 86011.

VIROLOGIST The Department of Biology of The University of Akron has a tenure-track assistant professor position open for September 1989. Applicants must have a Ph.D. with experience in molecular virology and cell culture and have held a postdoctoral fellowship. Responsibilities include maintaining an active research program and teaching virology and animal tissue culture to undergraduates and graduate students. Send curriculum vitae, publications and proposed research interests, and three letters of reference to: Dr. Dale Jackson, Chairman, Department of Biology, The University of Akron, Akron, OH 44325 by 15 January 1989. Affirmative Action/Equal Opportunity Employer.
AAAS MASS MEDIA SCIENCE AND ENGINEERING FELLOWS PROGRAM

The American Association for the Advancement of Science (AAAS) invites outstanding students in the natural and social sciences and engineering, preferably those at the graduate level, to apply for the 1989 Mass Media Science and Engineering Fellows Program. Students majoring in English, journalism, or other nontechnical fields are not eligible for these fellowships.

Fellows will work as reporters, researchers, production assistants, and script consultants for 10 weeks during the summer at newspapers, news magazines, and radio and television stations across the country. Fellows will have the opportunity to participate in the news making process, to increase their understanding of editorial decision making, and to develop skills in conveying to the public a better understanding and appreciation of science and technology.

AAAS pays a $300 weekly stipend and travel expenses. Deadline for receipt of applications is 1 February 1989. Minorities and persons with disabilities are especially encouraged to apply.

For further information and applications, write:
Mass Media Science and Engineering Fellows Program
AAAS
1333 H Street, NW
Washington, D.C. 20005

RESEARCH TECHNICIAN

The Biotechnology Division at the Amoco Research Center in Naperville, IL, is currently seeking applications for a Research Technician. The selected candidate's research will be focused on basic and applied aspects of yeast and bacterial molecular biology and gene expression. This position requires a Bachelor's or Master's degree in Molecular Biology, Biochemistry, or a related field. Experience with library screening, vector construction, DNA and RNA purification, DNA sequencing, hybridization, and protein biochemistry is desirable.

The Amoco Research Center offers a salary commensurate with education and experience, exceptional benefits and a convenient suburban Chicago location. Please forward your curriculum vitae and three letters of reference to:

Support Staff Recruiter
AMOCO RESEARCH CENTER
P.O. Box 400/Dept. JP/12-68
Naperville, IL 60566

Scientist

We are seeking a scientist with a Ph.D. in Cell Biology, Biochemistry, or Immunology with several years' post-doctoral experience in coagulation/fibrinolysis or endothelial cell biology. You will work in a small team on studies related to modulation of fibrinolytic/coagulation components of endothelial cells in culture as a function of extracellular matrix/growth factors. The demonstrated ability to develop a competitive research program is essential as is the ability to supervise a research team.

The Society offers a comprehensive compensation package which includes relocation assistance where required.

Please submit your résumé, in confidence no later than December 31, 1988 to: Director, Human Resources.

The Canadian Red Cross Society
1800 Alta Vista Drive, Ottawa, Ontario K1G 4J5

Scientist
Drug Metabolism

Smith Kline & French Laboratories, a leader in Pharmaceutical research, is seeking an experienced scientist with a background in Pharmacology or Biochemistry for its drug metabolism unit located in suburban Philadelphia.

While supervising a small laboratory group, the scientist will design, conduct and report on the investigations of the disposition of new drug candidates in humans and animals. A working knowledge of pharmacokinetics is essential. Also, the scientist will work as part of several multi-disciplinary teams, providing the drug metabolism perspective and data leading to the discovery and development of new therapeutic agents, and publish these findings in leading scientific journals. Highly developed interpersonal and communication skills will be important.

The successful candidate will possess a Ph.D. in pharmacology, biochemistry or related field with 3-5 years of relevant experience, preferably in drug development. Practical experience in bioanalytical methods and animal experimentation is also required.

We offer an attractive compensation/benefits/relocation package and a stimulating, highly supportive research environment. For confidential review, please forward your C.V. and names of three references to: Liz McKendry, Assoc. Employment Administrator — L0014, Smith Kline & French Laboratories, Research & Development, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.
ASSISTANTSHIPS

GRADUATE RESEARCH ASSISTANTSHIPS
in marine ecosystem studies, environmental chemistry and toxicology, fisheries science, and geochemistry for highly qualified students. Emphasis on Ph.D. degree. For information contact: Dr. G. Roseijalidi, Chesapeake Biological Laboratory for Environmental and Estuarine Studies, University of Maryland, Solomons, MD 20688. The University of Maryland is an Affirmative Action/Equal Opportunity Employer.

COURSE

MOLECULAR ENDOCRINOLOGY
AND TECHNIQUES FOR
ACTION/EQUAL OPPORTUNITY
20 to 25 February 1989

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, mRNA and protein, genetics, recombinant DNA, protein hormones, and cyclic nucleotides. Co-Directors: M. R. Hughes and B. W. O’Malley Fee: $565 ($245: fellows and students). For further information, contact: Bonnie Cutberth Department of Cell Biology Baylor College of Medicine Telephone: 713-799-0200 Deadline: 29 January 1989

FELLOWSHIPS

FELLOWSHIPS—American Museum of Natural History Research/Museum Fellowships are available to postdoctoral researchers and established scholars starting in summer and fall 1989. Areas include vertebrate and invertebrate zoology, paleontology, anthropology, mineral sciences, and the field of museum education as it relates to natural history museums or planetariums. Deadline for applications (including Chairman Fellowships (ornithology), is 15 January 1989. Request information booklet and application from: Office of Grants and Fellowships, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024.

FELLOWSHIPS IN BASIC MECHANISMS
OF LUNG DISEASE

Pre- and post-doctoral traineeships available immediately in Basic Mechanisms of Lung Diseases at the University of Alabama at Birmingham supported by the National Heart, Lung and Blood Institute. Preceptors include scientists in the departments of Microbiology, Biochemistry, Cell Biology and Anatomy, Comparative Medicine, Physiology and Biophysics, Pathology, Medicine, Anesthesiology, and Pediatrics. They have active research programs in basic mechanisms of acute and chronic parenchymal lung diseases and chronic obstructive airway diseases; basic mechanisms of cellular and humoral defenses; diseases implicated by the inflammatory response and free radicals; and the pathogenesis, immunologic response and treatment of infectious respiratory disease. Courses available in Pathologically and Physiopathologically Relevant Pulmonary Anatomy and Physiology; and research symposia. Fellowships available on a competitive basis to applicants (U.S. citizens and permanent residents) only with a recent Ph.D., M.D., or D.V.M. Send: 1) curriculum vitae, ii) three letters of reference, and iii) a statement of research and career goals to: Gill E. Gribbin, Chairman of Microbiology and Director, Lung Diseases Training Program, University of Alabama at Birmingham, UAB Station, Birmingham, AL 35294.

Two P.H.D. DOCTORAL FELLOWSHIPS IN PHARMACOLOGY—Training available in molecular pharmacology, cardiovascular and neuropharmacology in well-funded modern laboratories. Competitive stipends ($95000 per year). Attractive setting on the coastal plain of North Carolina. Federal law requires proper documentation of identity and employability at the time of employment. It is requested that such information be included with your application. Contact: Dr. Brian A. McMillen, Department of Pharmacology, School of Medicine, East Carolina University, Mail Stop 2275, Greenville, NC 27858. Affirmative Action/Equal Opportunity Employer.

MCDONELL SCHOLAR IN MOLECULAR ONCOLOGY
AT WASHINGTON UNIVERSITY
SCHOOL OF MEDICINE

The Division of Hematology/Oncology announces an endowed new program for physician investigators who want to apply the newer advances in basic sciences to oncology. The purpose of the program is to serve as a bridge between postdoctoral training and independent faculty status. The awardee will be able to devote all of his/her time to the development of an independent research program in an environment where outstanding senior investigators are available for encouragement and support. The awardee will receive $375,000 payable over 3 years, including a stipend of $50,000 per year. The balance of the award is to be used for supplies and technical support at the discretion of the awardee. Candidates must have an M.D. degree or M.D./Ph.D. degrees and have demonstrated outstanding potential for creative investigation. Applicants should submit curriculum vitae, a statement of research experience and specific interests and have three letters of recommendation sent to: Stuart Kornfeld, M.D. Washington University School of Medicine P.O. Box 8125 660 South Euclid Avenue St. Louis, MO 63110

FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP—The Philip E. Scott Memorial Fellowship is available immediately at the G. C. Smith Institute of Medical Research to work in the following disciplines: environmental mutagenesis, mycoplasma infections, biological response modifiers, endotoxin, reticuloendothelial cell biology, control of viral gene expression in human genetics, genetic mutant diseases and aging. The fellowship is available for 2 years, and includes salary, fringe benefits and supplies. Send including statement of research interests and references to: Dr. Gerard J. McGarity, Coriell Institute for Medical Research, Copewood Street, Camden, NJ 08103. Equal Employment Opportunity/Affirmative Action Employer.

FELLOWSHIPS IN BASIC MECHANISMS
OF LUNG DISEASE

The Medical Genetics Birth Defects Center, Division of Medical Genetics at Cedars-Sinai Medical Center in Los Angeles, has a postdoctoral fellowship position available.

The primary focus of the laboratory is the understanding of the molecular basis of human genetic diseases and the structural and functional consequences of collagen gene mutations.

Ph.D. with experience in molecular biology, protein chemistry, and cell culture preferred. Please submit résumés with references to: Mark W. Schnitz Cedars-Sinai Medical Center Employee Relations Department Brown Building, 1st Floor 8700 Beverly Boulevard Los Angeles, CA 90048

DREXEL FELLOWSHIPS IN BIOMEDICAL ENGINEERING AND SCIENCE. These fellowships are supported by the Calhoun Endowment. Students can specialize in the following areas: artificial organs, bioinstrumentation, biomedical imaging and signal processing, biomedicine, biometrics, biophysical control and systems, cardiovascular dynamics, diagnostic ultrasound, sensors and electrode, electromechanics and rehabilitation. Each fellowship includes a minimum stipend of $9,500 for a 12-month appointment beginning fall 1989. With a waiver of all tuition and fees, this award is approximately $20,000. Deadline for applications: 28 February 1989. For application write: Dr. David McArthur, Director, Biomedical Engineering and Science Institute, Drexel University, Philadelphia, PA 19104.

MARKETPLACE

Custom DNA Purified and Delivered in 48 hours.

$10.90 a base for the first 15 bases, $7.50 for each additional base. No additional charges.

Research Genetics
1 800 553 4363

Circle No. 145 on Readers’ Service Card

DIRECT MAIL FUNDRAISING

We are specialists in raising funds for medical research projects and public health education in the USA.

Call C. Hughley 703-549-8977

T-CELL GROWTH FACTOR (NATURAL IL-2)

Pan-Data Systems, Inc. (PDS) produces large quantities of PHA-free IL-2 (TCSF) from simulated peripheral blood mononuclear cells. Our IL-2 induces growth of IL-2 dependent leukocytes and favorably compares with other commercial products in both quality and price. Large lots are available for wholesale.

Cat. # 70205 $90.00/50 ml

13 Tarnt Court, Rockville, Md, 20850
301-294-2297 (fax)
1 (800) 543-6059

"powerful and easy to use...

Ask for our free 16 page brochure that includes complete program descriptions and detailed technical application notes.

2034 East Forth Union Blvd Salt Lake City, Ut 84121
(801) 943-0090

Circle No. 26 on Readers’ Service Card
When You Need It Now...

Pierce Delivers!

Now you can get the quality Pierce products you need. When you need them.

Extended Ordering Hours
You can call us any time from 7:00 a.m. - 7:00 p.m. Rockford time, Monday through Friday, to place your Pierce order.

97% In-Stock
When you place your Pierce order, it will be shipped complete — almost 100% of the time.

FREE Federal Express Delivery
Your orders placed by 7:00 p.m. Rockford time, Monday through Friday, are guaranteed by Pierce to reach you in two working days or less* — in most cases they will be there the very next day! And it’s Free for Pierce customers.

*Contiguous U.S. only for orders weighing less than 15 lbs.

Charge It
For those times when cash (or your purchasing department) is not available, now you can use MasterCard or Visa to charge your Pierce order.

With a complete new program for ordering, stocking, delivery, and convenient payment, now there’s no better source than Pierce for chromatography, sample handling, biotechnology, and immunochemical products.

Call 1-800-8-PIERCE today. You’ve known our quality for 37 years. Now we deliver more.

Call Toll-Free 1-800-8-PIERCE today. Ask for your copy of the 1988 Pierce Handbook and General Catalog, featuring products for Chromatography, Sample Handling, Biotechnology and Immunology.

P.O. Box 117/Rockford, IL U.S.A. 61105

Outside U.S.: 815-968-0747
In Europe: *31-1860-19277
Analyze and make measurements from nearly any video image—with JAVA™—Jandel's new Video Analysis Software.

JAVA™ features a powerful assortment of image processing and measurement functions at a surprisingly reasonable cost. Prepare an image for study with contrast enhancement, histogram equalization, and user-defined convolutions. Determine densities at points, along lines, or from vertically averaged strips in seconds. JAVA’s automatic line and edge tracking allows strip-charts and perimeters of complex objects to be digitized without hand tracing. Automatic object or grain counting is standard.

Direct measurements to JAVA's 64,000 row by 16,000 column worksheet. From there, use JAVA's descriptive statistics. JAVA™ accepts standard output from video cameras and VCRs (RS-170/NTSC composite video), and many pre-digitized images (e.g. CAT, MRI, ultrasound).

An IBM XT, AT or compatible, mouse and video digitizing board (frame grabber) will put JAVA to work for you. As with all Jandel products, it comes with a money-back guarantee.

For a FREE brochure, complete features and price list, call us today—800-874-1888. In CA or Canada call 415-924-8640.

Circle No. 212 on Readers’ Service Card