Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no abbreviations. Ad copy must be at least 2 weeks after date of issue in which ad appears. Personnel Placement is accepted only on understanding that the advertiser does not discriminate among applicants on the lines of sex, age, color, national origin, handicap, or sexual preference. SCIENCE reserves the right, in its discretion, to decline to publish advertisements submitted to it.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 10 a.m., 2 weeks prior to issue date (mail for display advertising, please contact Scharago Associates).

POSITIONS WANTED: 40¢ per word, plus $4 for use of box number, per week. $10 minimum, per week. Prepayment required. This rate is available only to individuals seeking jobs.

LINE CLASSIFIED POSITIONS OPEN, COURSES, FELLOWSHIPS, MARKETPLACE, and so forth: $40.00 per line, $400 minimum, per week (minimum charge for individual box number equals 10 lines of 52 characters and spaces per line). No charge for use of box number. No agency commission.

To ESTIMATE ad cost: Structure ad copy on a separate page, on lines of 52 characters and spaces. Include any desired heading. Each line of heading, and/or extra line spaces, and all partial lines (including centered reply information) are counted as full lines. All ad titles located within the text are printed in bold typeface and are only 32 characters per line. In ESTIMATING the cost, multiply total line x $4.00 = approximate cost of ad. (This is an approximate cost only. Allow for variation between estimated lines and actual typeset lines and the resulting final cost. Purchase orders must follow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY: NO change in advertisers made after Thursday, two weeks prior to issue date incur a 10% production charge. Final deadline for cancellations is 12 p.m., Tuesday, one week prior to issue date. Cancellations must be in writing.

Send copy for all Positions Wanted ads and Line Classified ads less than 1/8 page in size (30 lines) to:
SCIENCE Classified Advertising
1333 H Street, NW, Room 940
Washington, DC 20005
Telephone: 202-326-6555

Send copy for Fractional Display ads, 1/8 page and larger, and all Marketplace ads to:
Scharago Associates, Inc.
1815 Broadway
New York, NY 10029
Telephone: 212-229-1050

Blind ad replies should be addressed as follows:
Box (give number) SCIENCE
1323 H Street, NW
Washington, DC 20005

POSITIONS WANTED

Immunologist, Ph.D. Senior scientist with extensive background in academic and biotechnology research and development. Expertise in cellular immunology, hybridomas, monoclonal antibodies, and immunotherapy in cancer. Excellent project manager and laboratory director. Seeking a position in biotechnology industry. Box 28, SCIENCE.

Insect Biochemist. Ph.D. Entomology, M.S. Biochemistry; over 14 years experience as expert reviewer, expert Macintosh, antibodies, Polyclonal virus, pheromones, reviewer for Science. Seeks research position. Box 22, SCIENCE.

Medical Computer Specialist, M.D. Board-certified with 15 years of primary care clinical experience in hospital and ambulatory settings. Areas of interest include enhancement of health care productivity, quality assessment, database utilization and application. Seeks industry, government, or academic position in research, management consulting, or teaching. Prefer Arizona, Southwest. Box 187, SCIENCE.

ADVANCED POSTDOCTORAL OR JUNIOR FACULTY PATHOLOGIST with research on cancer immune responses in cancer patients immunized with anti-idiotypic antibodies. The studies so far have been very successful in the human cancer research level [Proc. Nat. Acad. Sci. U.S.A. 84, 8055 (1987)]. Experience in cellular immunology desirable. Send curriculum vitae and the letters of three recommendations (including telephone numbers of respondents) to: Dr. Debrae Herlyn, Associate Professor, The Wistar Institute, 36th and Spruce Streets, Philadelphia, PA 19104, or fax information to 215-899-3868. Equal Opportunity Employer, M/F.

DEPARTMENT OF BIOLOGY
SAN DIEGO STATE UNIVERSITY

Two tenure-track positions to begin August 1989 at the earliest. Assistant or associate professor level preferred. Candidates are expected to have postdoctoral experience and to develop externally funded research.

ALGAL ECOTOLOGIST/PHYSIOLOGIST to research in lacustrine, estuarine, or marine systems. Teaching responsibilities flexible, may include phycology, aquatic ecology, biological oceanography, limnology, or algal physiology and ecology.

DEVELOPMENTAL VERTEBRATE MORPHOLOGIST with research at the organ level, especially systematic or evolutionary problems; should be able to interact with faculty working in whole animal biology, systematics, and cell biology. Start date is fall 1989. Applications and publications expected to show capability of teaching in his/her specialty and sharing responsibilities for introductory human anatomy.

By 5 April 1989, send applications, including curriculum vitae, brief description of research interests, and three letters of recommendation to: Dr. Joseph D. Brain, Search Committee, Department of Biology, San Diego State University, San Diego, CA 92182-0057. Applications from women, ethnic minorities, and disabled individuals are encouraged. SDSU is an Affirmative Action/Equal Opportunity Employer.

HARVARD UNIVERSITY
ASSISTANT PROFESSOR OF PHYSIOLOGY

Applications are invited from individuals with expertise in molecular biology and protein chemistry and a potential interest in respiratory biology, especially macromolecular biology or fibrogenesis. Competence and publications required in some of the following areas: recombinant DNA technology, DNA probe hybridization, regulation of gene expression, isolation and characterization of antigens, and other aspects of teaching, but research predominates. Requirements: Doctorate and 2 to 3 years of experience. Send resume and names of three recommenders to: Professor D. Brain, Respiratory Biology Program, Department of Environmental Science and Physiology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

Women and minority candidates are particularly invited.

POSITIONS OPEN

Tennessee Technological University (TTU) invites applications for tenure-track positions at the ASSISTANT PROFESSOR level in chemistry. The position is available 1 July 1989. Candidates are expected to teach upper level courses and establish an externally funded program relating to environmental water quality. A Ph.D. in chemistry with postdoctoral experience, an environmental chemistry research record, and a U.S. citizen or permanent resident are required. The successful candidate will conduct research in the Center for the Management, Utilization and Protection of Water Resources and teach in association with the chemistry department. Review of applications begins 15 April 1989. Position remains open until filled. Send résumé, three references, list of publications and statement of research interests to: Dr. Michael Cooke, Chair, CMUPW, Box 5082, Tennessee Technological University, Cookeville, TN 38505. TTU, an Affirmative Action/Equal Opportunity University.

ASSISTANT RESEARCH BIOCHEMIST AND POSTDOCTORAL FELLOW. Two full-time academic research appointments: connective tissue research in caseous wound repair, scar formation and synthetic skin. Ph.D., mammalian cell culture experience, and familiarity with carbohydrate and/or protein biochemistry required. The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer. Women and minorities encouraged to apply. Send letter of intent, curriculum vitae, and names of three references to: Dr. Charles N. Bertolami, Chair, Oral and Maxillofacial Surgery, UCLA School of Dentistry, Center for Health Sciences, Los Angeles, CA 90024-1668.

ASSISTANT RESEARCH SCIENTIST to collaborate in NIH-funded electrophysiological, anatomical and behavioral studies of altered spinal cord function following spinal or peripheral nerve injury, and tissue transplantation. Ideal candidate would have an M.D. or Ph.D. degree and some postdoctoral experience. Anticipated start date is 1 September 1989. Send curriculum vitae, and the names of three references by 22 May 1989 to: J. B. Munson, Ph.D., Department of Neurosciences, University of California, San Diego, School of Medicine, P.O. Box J-244, JHMHC, Gainesville, FL 32610-0244. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT RESEARCHER, PHYSIOLOGY. Isolation, identification, and cultivation of blue-green algae (cyanobacteria) for determination of antinociceptive activity. Applicants must have a Ph.D. in physiology or equivalent and equivalent experience. Start date is fall 1989 and applications will be accepted until 30 June 1989. Send curriculum vitae, and names of three references to: Dr. Gregory M. L. Patterson, Department of Chemistry, 2216 Duke University of Hawaii at Manoa, Honolulu, HI 96822. Telephone: 808-948-0631. Closing date: 1 May 1989.

ASSISTANT/ASSOCIATE PROFESSOR IN PHARMACOLOGY

Applications and nominations are invited for a tenure-track faculty position in the rank of assistant or associate professor. Applicants should have earned a Ph.D. degree. Postdoctoral research training, teaching potential and good interpersonal and communication skills are desirable. Candidates are expected to develop an externally funded innovative research program and participate in professional and graduate education. All qualified applicants are encouraged to apply. Send letter of interest, curriculum vitae, and names of three referees, research statement and teaching statement to: Dr. S. S. Opara, Search Committee Chair, School of Pharmacy and Pharmaceutical Sciences, College of Pharmacy, University of Minnesota, 741 Delaware Street, South, Room 222, Minneapolis, MN 55455. Search will continue until position is filled. Equal Opportunity/Affirmative Action Employer.

1382

SCIENCE, VOL. 243
BIONETICS IS REALIZING ITS POTENTIAL IN BIOMEDICAL RESEARCH.

You can realize your potential at Bionetics.

Founded in 1961, the Bionetics Research family was acquired in 1985 by Akzo, N.V. of the Netherlands. Akzo is active in chemicals, fibers, coatings, and health-care products. It operates in 300 locations in 50 countries with 70,000 employees.

Under the Akzo Pharma Division, Bionetics Research in the greater Washington, D.C. area is pursuing a program of cancer and AIDS research and diagnostic product development. Positions in this group offer opportunities for collaboration with academic, industrial, and government investigators throughout the scientific community.

Director, Molecular Biology Research and Development — You will direct a group of scientists developing recombinant proteins for cancer and viral therapeutic and diagnostic use. You will also interact with other laboratory directors to coordinate research projects on cytokines, human tumor antigens, human monoclonal antibodies, immunotoxins, and recombinant viral proteins. Experience should include 5+ years of research in gene cloning and procaryotic and eucaryotic expression with sound supervisory and interpersonal skills.

Postdoctoral Fellow/Research Scientist — Biochemistry — You will be involved in the isolation and characterization of recombinant DNA products. Antigens to be targeted involve recombinant viral proteins from HIV I and HIV II. Experience in the purification of recombinant proteins in both soluble and insoluble forms is required. Some experience in bacterial fermentation is helpful.

Research Scientist — Molecular Virology — You will lead research in retroviruses and related pathogenic elements aimed at understanding mechanisms of viral infection and pathogenesis, and regulation of viral gene expression. These studies should contribute to development of vaccine and therapy for retrovirus infections. Experience in recombinant DNA techniques and expression of retroviral genes in bacterial and eucaryotic systems, is required.

Senior Research Scientist — Immunology — You will develop and characterize new murine monoclonal antibodies for use in commercial immunoassay development and supervise the hybridoma laboratory staff of four. Duties will be performed in cooperation with the animal resources and product development laboratories.

Research Scientist — Molecular Biology — You will lead a small technical staff in basic research for diagnostic test development. Antigens to be targeted include human retroviruses. Expertise in the generation of cDNA libraries; manipulation of plasmids and vectors; expression in procaryotic and eucaryotic cells; assay development; and DNA sequencing, are requirements.

Postdoctoral Fellow — Cellular Biology — You will characterize T cell responses to human tumor antigens and participate in studies on leukoregulin. Experience in T cell cloning, and surface marker antigen analysis, required.

All Scientist positions require a Ph.D. in an appropriate scientific discipline, 2-4 years' postdoctoral experience, and proven writing skills through publications in scientific journals.

Additional opportunities immediately available:
• Associate Patent Attorney
• Research Specialists — retrovirus research, radiolodination, animal resources, biochemistry
• Regulatory Affairs Manager
• Contract Specialist

We offer excellent benefits including health, life and dental insurance and a generous, company-matched savings plan. For consideration, please submit a C.V., including salary requirements to: S. Bushwaller.

BIONETICS RESEARCH 1330-A Piccard Drive, Rockville, MD 20850. BR is an equal opportunity employer, M/F/HV. Principals Only.
ASSISTANT OR ASSOCIATE PROFESSOR—Penn State: The Bioengineering Program of The Pennsylvania State University seeks an individual with doctorate in the engineering or physical sciences to expand the direction of research at the Department of Bioengineering. The position involves the development of research that will receive external funding. Persons with research interests in cell biology and/or general biology for non-science majors. The position will be tenured tenure-track and carry a three-course teaching load. Applicants should have a Ph.D. or M.D. degree, postdoctoral experience and a strong commitment to research. Applications submitted by 1 May 1989 should include curriculum vitae (including up to five recent publications), a description of current research interests, and the names of at least three references to be sent to: Faculty Search Committee, Department of Pharmacology, The Pennsylvania State University, 353 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

OREGON HEALTH SCIENCES UNIVERSITY CENTER FOR RESEARCH ON OCCUPATIONAL AND ENVIRONMENTAL TOXICOLOGY ASSOCIATE DIRECTOR FOR OCCUPATIONAL RESEARCH AND HEALTH PROMOTION

Center seeks medical scientist with international/national reputation of excellence in neurochemical pathology and toxicology. The candidate will assist in the supervision of the research program, develop and maintain relationships with other laboratories, and participate in grant writing and reviewing activities.

ASSOCIATE/ASSOCIATE PROFESSOR, Pacific Lutheran University

The Department of Pharmacology in conjunction with the Comprehensive Cancer Center of the Yale University School of Medicine invites applications for tenure-track appointments at the assistant or associate professor level to begin in 1989 or 1990. Candidates are sought with basic research interests in cancer chemotherapy or bio-therapy. Appointees will have access to a variety of Departmental and Cancer Center resources. Candidates should have Ph.D. or M.D. degree, postdoctoral experience and a strong commitment to research. Applications submitted by 1 May 1989 should include curriculum vitae (including up to five recent publications), a description of current research interests, and the names of at least three references to be sent to: Faculty Search Committee, Department of Pharmacology, The Pennsylvania State University, 353 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE PROFESSOR, Pacific Lutheran University

The Department of Pharmacology in conjunction with the Comprehensive Cancer Center of the Yale University School of Medicine invites applications for tenure-track appointments at the assistant or associate professor level to begin in 1989 or 1990. Candidates are sought with basic research interests in cancer chemotherapy or bio-therapy. Appointees will have access to a variety of Departmental and Cancer Center resources. Candidates should have Ph.D. or M.D. degree, postdoctoral experience and a strong commitment to research. Applications submitted by 1 May 1989 should include curriculum vitae (including up to five recent publications), a description of current research interests, and the names of at least three references to be sent to: Faculty Search Committee, Department of Pharmacology, The Pennsylvania State University, 353 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

Oregon Health Sciences University Center for Research on Occupational and Environmental Toxicology

Associate Director for Occupational Research and Health Promotion

Center seeks medical scientist with international/national reputation of excellence in neurochemical pathology and toxicology. The candidate will assist in the supervision of the research program, develop and maintain relationships with other laboratories, and participate in grant writing and reviewing activities.

SCIENCE, VOL. 243

ASSOCIATE IN CLINICAL RESEARCH BRIIGHAM AND WOMEN'S HOSPITAL BOSTON, MASSACHUSETTS

Division of Cardiac Surgery at Harvard Medical School and Brigham and Women's Hospital has an opening for a clinical research associate. Applicants should have experience with data entry, and basic programming skills to head up large data bank for coronary artery surgery. Experience and benefits.

Send resume to: Lawrence H. Cohn, M.D.
Chief, Division of Cardiac Surgery Brigham and Women's Hospital 75 Francis Street Boston, MA 02115

ASSOCIATE IN RESEARCH DEPARTMENT OF SURGERY HARVARD MEDICAL SCHOOL AND BRIIGHAM AND WOMEN'S HOSPITAL BOSTON, MASSACHUSETTS

Division of Cardiac Surgery at Harvard Medical School and Brigham and Women's Hospital has an opening for a research associate. Applicants should have experience with basic and in-vitro and in-vivo experimentation, chronic animal preparations and basic cardiac research techniques including isotopic blood flow measurements, histology and ultrasonic crystals. Candidate should have a Ph.D., or M.D./Ph.D. in cardiovascular physiology, pathology, or related fields and capacity and interest in interdisciplinary research and growth. Please send resume and references to: Lawrence H. Cohn, M.D.
Chief, Division of Cardiac Surgery Brigham and Women's Hospital 75 Francis Street Boston, MA 02115

ASSOCIATE PROFESSOR with experience in female urology, urodynamic, adult and pediatric neurogenic bladder, spinal cord injury, impotence and prostate. Qualification: Ph.D. or M.D. is preferred.

BEGIN IMMEDIATELY: Position in Pharmacology and Toxicology.

The Department of Pharmacology invites applications for a position in the area of behavioral toxicology and the search to fill the position of Behavioral Toxicology. Applications are being accepted at this time, and the position will remain open until filled. Please send curriculum vitae, description of research interests, and names of at least three references to: Richard Brown, Chairman, Department of Pharmacology, The Pennsylvania State University, 353 Cedar Street, New Haven, CT 06510. Yale University is an Equal Opportunity/Affirmative Action Employer.

Oklahoma Medical Research Foundation

Position Description

The Oklahoma Medical Research Foundation invites applications for the position of Associate Director, Research Planning and Administration.

POSITIONS OPEN

BIOLOGY—TWO POSITIONS: The Biology Department at the University of California, Riverside, invites applications for two 1-year sabbatical replacement positions at the assistant professor level: BEHAVIORAL BIOLOGIST to teach animal behavior and ornithology, and to participate in teaching and research activities of the Department of Zoology; and GENERALIST to teach genetics, cell biology and developmental biology at the freshman level, and a course of your choice during the January interim term. Each position requires the Ph.D., or near completion. Successful candidates must have a commitment to undergraduate teaching. The University of California, Riverside, located in the Palm Springs region of Southern California, is a public university with an enrollment of 19,500 students. The Biology Department is housed in a newly constructed building and includes 12 full-time faculty members. Applicants should send curriculum vitae, transcripts, statement of teaching and research interests, and three letters of recommendation to: Dr. John P. Carlson, Chairman, Department of Biology, Pacific Lutheran University, Tacoma, WA 98447. Closing date: 31 March 1989. PLU is an Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGY/ANIMAL PHYSIOLOGY/ GENERAL BIOLOGY: The Biology Department of the University of Maryland, College Park invites applications for one or two ASSISTANT PROFESSOR positions to begin in August 1989 or January 1990. One position is open for a research associate. Applications should have experience in cell biology and/or general biology for non-science majors. The other position will be permanent tenure-track (contingent upon faculty assignments), with teaching responsibilities in cell biology, animal physiology and biology for non-science majors. Submit curriculum vitae, copies of transcripts, a summary list of science courses completed, a brief description of teaching and research career goals, and three letters of recommendation to: Dr. Edmond E. Griffin, Chairman, Department of Biology, University of Maryland, College Park, MD 20742. Deadline for receipt of applications is 15 April 1989. UCM is an Equal Opportunity Employer.

CYTOGENETICIST

The Department of Botany and Plant Sciences, University of California, Riverside, announces again, a position of cytogeneticist, available 1 July 1989. The position is tenure-track, 11-month appointment in the College of Natural and Agricultural Sciences and in the Agricultural Experiment Station. Appointment will be at assistant, associate, or full professor level, depending on the experience of the successful candidate. It is required that the candidate have a Ph.D. in botany and have experience in chromosome analysis and plant cytogenetics. The appointee will be expected to develop a vigorous, innovative, and productive research program in plant cytogenetics, with applications to plant breeding. Research goals and objectives must be consistent with those of the Agricultural Experiment Station. A Ph.D. in research areas may include, but are not limited to, molecular biology of plant transposable elements, molecular structure of plant chromosomes, or molecular mechanisms of recombinations. One goal, but by no means the only one, might be the application of new molecular technologies to tree crops. The successful candidate will be expected to contribute to the departmental undergraduate teaching program and to offer an upper division/graduate course in plant cytogenetics. He/she must be willing to serve as major professor to graduate students and to participate in the graduate program.

Send relevant information including curriculum vitae, and arrange to have at least three confidential letters of recommendation sent to: Dr. I. L. Wainer, Chairman, Search Committee, Department of Botany and Plant Sciences, University of California, Riverside, CA 92521. Application deadline is 21 April 1989.

The University of California, Riverside, is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

DIRECTOR OF CORNELL PLANTATIONS

Director of arboretum, botanic garden, and natural areas of Cornell University. For description/requirements write: Dr. Kenneth E. Wing, 102 Roberts Hall, Ithaca, NY 14853. Telephone: 607-255-7720. Cornell is an Equal Opportunity/Affirmative Action Employer.
Cell Biologist
Cutter, a leading San Francisco Bay area manufacturer of biological products, has an immediate opening for a cell biologist. Design, conduct and analyze results from bioassays relating to recombinant protein and monoclonal antibody products. Participate in virological and microparticle screening projects. Develop new cell biological assays & maintain cell culture repository service.

BS or MS in Cell Biology, Microbiology or related discipline plus 5 years experience in mammalian cell culture or equivalent. Knowledge of protein secretion mechanisms, cellular growth factors and electronic cell counting required. Experience with transformation, tumorigenicity, and virological bioassays desirable. Good writing skills a must.

Qualified candidates please send resume with salary history to:
Debra Wilkins
P.O. Box 1986
Berkeley, CA
94701
AA/EOE
Cutter Biological

RESEARCH SCIENTIST, PHARMACOLOGY
Nelson Research, a wholly-owned subsidiary of the Ethyl Corporation, situated on the campus of the University of California at Irvine, is a pharmaceutical research firm committed to the discovery and development of new drugs. The Company currently has an opening for a Pharmacologist. The successful candidate will be involved in:
Development of bioassays using isolated tissues to evaluate the specificity and efficacy of new chemical entities developed by the company.
Coordination of various research programs with academic and industrial scientists worldwide.

Qualified candidates will have a Ph.D. with 3 or more years' postdoctoral experience in the physiology of smooth muscle and analytical pharmacology. Industrial pharmaceutical experience is desirable.

Excellent oral and written communication skills are essential.

Nelson Research offers a professional environment and competitive salary and benefits. Interested candidates may send resume with salary history to: Personnel Manager, Nelson Research, 1001 Health Sciences Road West, Irvine, CA 92715.

DISCOVER THE NCI-FREDERICK CANCER RESEARCH FACILITY
The National Cancer Institute's Frederick Cancer Research Facility (NCI-FCRF) has developed an international reputation in biomedical research. The reason is simple. Excellent resources and commitment.

Program Resources, Inc., (PRI) is the major operations and technical contractor in support of NCI programs at the FCRF in Frederick, Maryland. Our role here is vital. Yours will be too.

We need individuals with education and training at all levels to play key roles in the following areas:
- Administrative/Operations Support
- Natural Products Extraction Laboratory
- Chemical Synthesis and Analysis Laboratory
- Epidemiological Studies for HIV
- Laboratory of Cell & Molecular Structure
- AIDS Vaccine Development
- Recombinant DNA Laboratory
- Lab Animal Science
- Cellular and Molecular Biology
- Clinical Immunology Monitoring
- In-Vitro Drug & Cell Line Screening
- Nucleic Acid and Protein Synthesis
- Advanced Scientific Computing Laboratory

In addition to the exciting professional challenges you'll find at PRI, we provide a competitive salary and excellent benefits, including insurances, educational assistance, and a tax-deferred savings plan. To explore these opportunities, see our representatives at the FASEB Placement Service this week or send your resume to: Program Resources, Inc., Personnel Department, P.O. Box B, Frederick, MD 21701.

PRI PROGRAM RESOURCES, INC.

An Equal Opportunity Employer.

Continued, rapid expansion at Rorer Central Research has created several new positions within our Drug Safety Division. This group is responsible for the design and interpretation of routine drug safety assessment studies as well as special studies designed to investigate mechanisms of toxicity.

PATHOLOGISTS
Two openings exist for ACVP Certified Pathologists to interpret and report pathology findings on drug safety studies. One of these positions has the additional responsibility for managing a Clinical Pathology Laboratory. Candidates should have a minimum of one year experience in the pharmaceutical industry.

TOXICOLOGISTS
Entry and senior level positions are available for Toxicologists to design, supervise and/or conduct toxicology and safety evaluation studies. A Ph.D. in Toxicology or a related discipline is required. At the entry level, a minimum of two years post graduate experience is required, preferably in the pharmaceutical industry. The senior level position requires a minimum of five years post graduate experience. A broad background in toxicology and familiarity with GLPs are preferred for both positions.

Rorer Central Research offers a competitive salary, comprehensive benefits package and continued opportunities for professional development. Please submit your resume and salary history in confidence to: Rose Havron, Manager, Staffing and Compensation, Rorer Central Research, 640 Allendale Road, King of Prussia, PA 19406. An Equal Opportunity Employer, M/F/H/V.

Rorer Central Research
Building for the future with excellent people, quality programs and sense of urgency.
AIDS RESEARCH AT THE NATIONAL INSTITUTES OF HEALTH
DIRECTOR OF PROTEIN EXPRESSION LABORATORY

The Office of the Director of the National Institutes of Health seeks a senior scientist to direct the Protein Expression Laboratory at the campus in Bethesda, Maryland. The principal function of this new laboratory will be to express and purify HIV proteins in large quantities for structural, biochemical, and pharmacological studies. This Laboratory will be part of the existing effort at the NIH to develop therapeutic agents, based on structural and mechanistic considerations, that will interfere with the HIV life cycle. The Director of the Protein Expression Laboratory will be expected to recruit additional senior scientists, post-doctoral fellows, and technicians.

Requirements include a Ph.D. in Molecular Biology or Biochemistry, at least three years of post-doctoral experience, expertise in the use of recombinant DNA techniques for the expression of proteins, as well as expertise in the purification of proteins. Salary is negotiable, dependent upon experience.

Interested candidates should send a curriculum vitae and names and telephone numbers of at least 3 references to:

Dr. Joseph E. Rall
Deputy Director for Intramural Research
Building 1, Room 126
National Institutes of Health
9000 Rockville Pike
Bethesda, Maryland 20892

The National Institutes of Health, which is located 10 miles from the center of Washington, D.C., is the largest biomedical research institution in the world, and is an Equal Opportunity Employer.

Physical Biochemist

The Department of Pharmaceutics at Smith Kline & French Laboratories, in suburban Philadelphia, is seeking a qualified Physical Biochemist to join an innovative and rapidly expanding Biopharmaceutical Development Group. This position requires a Ph.D. in Biochemistry, Chemistry or Pharmaceutical Sciences. Some pharmaceutical industrial experience will be an asset.

The successful candidate will be designing and conducting experiments to correlate biochemical properties, including protein conformation and folding to stability and activity, as well as determining solutions to problems involving stabilization of biopharmaceuticals. Experience in spectroscopic methods of protein analysis and mechanisms of protein aggregation as well as good written and communication skills are required. Familiarity with interpreting calorimetric data on solid phase and solution protein preparations and analysis of activity of biopharmaceuticals are preferred.

For confidential review, please forward your C.V. and the names of three references to: Ms. Elizabeth McKendry, Associate Employment Administrator, L0038, Smith Kline & French Laboratories, Research and Development, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/H/V.

IMMUNOCHEMICALS PRODUCTION MANAGER

SIGMA CHEMICAL COMPANY manufactures and distributes reagents for research and diagnostic use to an international market that relies upon our service and product quality backed by the integrity and professionalism of our employees. At its St. Louis headquarters, hundreds of staff personnel are involved in the development, manufacturing, quality control, sales and marketing of more than 22,000 products.

An excellent opportunity exists at Sigma for an Immunochemicals Production Manager. The successful candidate will be involved with the development and implementation of sales and marketing programs for Sigma immunochemicals reagents. Minimum requirements are a MS degree in a biological science with advanced training in immunology. Additional training in one or more of the following areas preferred: Immunohistochemistry, Development, Production and Characterization of Monoclonal Antibodies, Cell Surface Marker Assays, Immunohistochemistry and Protein Purification. Demonstrated experience in the sales and marketing of research or clinical products a plus. This position requires a self-starter with good people and communication skills, a positive attitude and the ability to turn a plan into action.

Sigma can provide a competitive salary and a full company-paid benefits package. Send your resume and salary history to: Personal Manager (CAM), SIGMA CHEMICAL COMPANY, P.O. Box 14508, St. Louis, MO 63178.

An Equal Opportunity Employer
Pfizer Central Research, an industry leader in inflammation research, has several opportunities for scientists to contribute to the discovery of new drugs for the treatment of inflammatory and autoimmune diseases. You will join well established multidisciplinary research teams in the expanding Department of Immunology and Infectious Diseases and work in newly constructed facilities with state-of-the-art equipment. For each position, a PhD, appropriate postdoctoral training and a record of accomplishment in your research endeavors is required. Previous industrial research experience including project management skills is welcome but not essential.

**Inflammation/Immunology Research**

**Osteoarthritis** - You will focus on developing and exploiting systems related to the pathogenesis and treatment of osteoarthritis. Appropriate fields of training include protein biochemistry, molecular biology, cell biology or experimental pathology. Expertise is particularly sought in relation to cartilage biochemistry/metabolism and its regulation by cytokines.

**Cell Infiltration/Cell Biology** - You will be involved in new therapeutic approaches based on regulation of cell trafficking into sites of inflammation. Appropriate fields of training include cell biology, immunology, protein biochemistry or experimental pathology. Expertise is particularly sought in the areas of leukocyte/endothelial cell interactions, adhesion molecules and other chemical regulators of cell movement. Experience with light and electron microscopic techniques is highly desirable.

**Pulmonary Immunologist** - You will contribute to the discovery of new anti-allergy/asthma therapy. Current interests encompass the pharmacologic manipulation of monocyte-macrophage/lymphocyte eosinophil interactions in models of airway inflammation/hyperreactivity. Appropriate fields of training include immunobiology/immunogenetics and biochemistry with an emphasis on molecular biology. Prior research on problems associated with immediate and delayed hypersensitivity reactions in the lung is highly desirable. Expertise is particularly sought in the following areas: cellular immunology; isolation/characterization of cytokines; and models of airway inflammation/hyperreactivity.

These positions provide excellent opportunities for professional recognition and development. We offer an excellent salary, benefits and relocation package plus an attractive southeastern Connecticut shore location. Qualified applicants should submit their resume, including the names, addresses and phone numbers of three professional references, and indicating position of interest, to: J.K. Larson, PhD, Assistant Director, Employee Resources, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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**Director, Human Studies Division**

**Health Effects**

**Research Laboratory**

**Research Triangle Park, NC**

**U.S. Environmental Protection Agency**

The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Human Studies Division, Health Effects Research Laboratory (HERL). This position is located in Research Triangle Park, NC and is a permanent full-time position with a salary range of $57,158 to $74,303 per annum commensurate with qualifications. Additional salary incentives are available should a physician be selected for this position.

HERL has a staff of about 300, over 100 of whom hold doctoral level degrees. The Laboratory has a diverse program which includes in vitro, animal, human clinical, and epidemiological research designed to address issues related to the health effects of air and water chemical and biological pollutants.

The Human Studies Division (HSD) is a multidisciplinary program organized into two branches: Clinical Research and Epidemiology with a combined EPA staff of 35, with approximately 75 on-site contractor personnel. The Division is a focal point for planning, conducting, coordinating, supporting and evaluating a program of clinical and epidemiological investigations to improve the understanding of human health risks associated with environmental pollution. The program includes both intramural investigations and extramural arrangements with universities, industry, private research institutions and other government agencies. The primary responsibilities of the Director are to direct and manage the program. This includes developing the program to meet the evolving needs of EPA, presenting the program, developing and managing budgets, supervising the staff, directing the progress of the program and assuring the scientific quality and productivity of the program.

The preferred candidate for this position would possess the following qualifications:

1. Advanced degree in a biological or medical discipline or epidemiology with at least six years of professional experience in any of these areas. Applicable graduate coursework may be substituted for a portion of the preferred experience.
2. Experience as a supervisor of a scientific/professional staff.
3. Recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels.
4. Proven ability to provide leadership in directing the development and progress of a creative and effective multidisciplinary human research program.
5. U.S. citizenship is required.

Forward curriculum vitae and names of three references prior to April 17, 1989 to: Dr. Lawrence W. Reiter, c/o Terri Burnett, HRMD (MD-29), U.S. Environmental Protection Agency, Research Triangle Park, NC 27711.
POSITIONS OPEN

DIRECTOR OF AIDSDATE MODELING, MONITORING SYSTEMS AND QUALITY ASSURANCE
WASHINGTON, DC
ES-401/801/1301
$68,700 to $78,600

U.S. Environmental Protection Agency is seeking highly qualified candidates for the position of Director of Office of Modeling, Monitoring Systems and Quality Assurance (OMMSQA). The OMMSQA, a component of the Office of Research and Development, is responsible for developing research and development policies regarding a major segment of the Agency's program in the areas of: techniques, equipment, systems and operations for biological, chemical and physical monitoring; characterization and source apportionment of pollutants in the environment; air transport, transformation and fate modeling; methods development for human and ecosystem exposure monitoring and assessment; quality assurance programs; technical information systems; and technical support to EPA regulatory and enforcement programs.

Applicants for this Senior Executive Service (SES) position must have a bachelor's or higher degree in life sciences, physical sciences, or engineering, and substantive professional experience demonstrating scientific leadership and competence. Notable experience in atmospheric, ecological, analytical chemistry and/or exposure assessment is desirable. You must also meet the environmental and executive qualifications described in the Vacancy Announcement. For a copy of the Vacancy Announcement, call the Senior Executive Service, Executive Resources and Special Programs Division, ES-224, 401 M Street, S.W., Washington, D.C. 20460. The telephone number is 202-382-3328. Applications must be postmarked by 31 March 1989. EPA is an Equal Employment Opportunity Employer.

POSITIONS OPEN

DIRECTOR: BIOCHEMICAL DISEASE DETECTION LABORATORY
Yale University Department of Human Genetics invites applications for an assistant professor, M.D. or Ph.D., to direct its Biochemical Disease Detection Laboratory. The director will assume primary responsibility for a major research program in conjunction with the laboratory. The position is available from July 1989. Board-eligible/ Board-certified, American Board of Medical Genetics is desirable. Experience and expertise with mass spectrometry and the metabolites of amino acid and fatty acid metabolism are required. Send curriculum vitae, statement of research interests and three references to:

Dr. M. J. Mahoney
Department of Human Genetics
333 Cedar Street
New Haven, CT 06510

The deadline for applications 30 April 1989. Yale University is an Equal Opportunity/Affirmative Action Employer.

MASEY UNIVERSITY
PALMERSTON NORTH, NEW ZEALAND
DIRECTOR, IMAGE ANALYSIS UNIT

Applications are invited from both men and women for the above appointment which includes half-time lecturing in the Department of Physics and Biophysics. The Unit is interested in developing in-house image analysis methodology and provides a client advisory service. The position is available in the initial period of 3 years.

The appointee would be expected to contribute to electronics teaching in the Department of Physics and Biophysics. A practical knowledge and experience of DEC/ES/VT/ES401/ES801/EX301 and/or the IBM PC AT, "C" programming language and of general image analysis methodology is required. An ability to interact well with users is essential. Previous relevant management experience would be an advantage.

Salary is in the range NZ$35,000 to NZ$43,500 per annum.

Further information is available from: Professor P. B. Callaghan, Head of Department of Physics/Biophysics (EN 69 099 extension 8364) and Professor D. A. D. Parry, Deputy Director Analysis Advisory Committee (extension 7473).

Applications including the names and addresses of three referees who may be contacted should be forwarded to: Mrs. V. B. Bretherton, Personnel Section, Massey University, Palmerston North, New Zealand, before 30 April 1989. Applicants resident in the UK should also send a copy to: Appointments (36039), Association of Commonwealth Universities, 36 Gordon Square, London WC1H OPF, from whom further information is also available.

ENDOWED PROFESSORSHIP IN IMMUNOLOGY

This professorship is designed to add an outstanding scientist to the newly-formed Department of Molecular Genetics, Biochemistry and Immunology in the College of Medicine. The department has major research programs including the recent award of a Program of Excellence in Molecular Biology from the Heart, Lung and Blood Institute of NIH. The appointee will fulfill a pivotal role in expanding strength and interactions in the College. The University of Cincinnati is a comprehensive university in the Midwest and the College should be sent to: Dr. Jerry B. Lingel, Department of Molecular Genetics, Biochemistry and Immunology, University of Cincinnati College of Medicine, Cincinnati, OH 45267-0524.

Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL GEOLOGIST/HYDROGEOLOGIST

Environmental Science and Engineering Department at Allegheny College invite applications for a 1-year sabbatical replacement with teaching responsibilities that include process geohydrology, hydrogeology, and groundwater pollution. Additional responsibilities include participation in a team-taught seminar and advising undergraduate senior projects. Ph.D. or A.B.D. preferred. Applicants should submit curriculum vitae, and three letters of references to: Eric Pallant, Geology/Environmental Science Department, Allegheny College, Box E, Meadville, PA 16335. Review begins 15 March 1989. Position will be open until filled. Allegheny College is an Equal Opportunity Employer.

EXTENSION AGRONOMIST—Extension assistant is needed to teach courses in agronomy, beginning next fall, with responsibilities which include coordinating state-wide educational programs on agronomic crop production. Primary responsibility will be to provide and coordinate state-wide educational programs on agronomic crop production. Extension assistant will be to provide and coordinate state-wide educational programs on agronomic crop production.

FACULTY POSITION IN INFECTION DIS- EASES to participate in studies of HIV pathogenesis. Ph.D. with 3 or more years of experience in basic immunology or virology. Salary $31,000 to $35,000. Send curriculum vitae to: Roy T. Steigbigel, M.D., Head, Division of Infectious Diseases, HSC T-15, SUNY at Stony Brook, NY 11794-8153. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN MOLECULAR BIOLOGY

The Institute of Molecular Biology at the University of Oregon seeks at least one senior faculty member in structural biology. This represents an opportunity for a step of significant expansion in this area funded in part by the Marky Charitable Trust. Possible research interests include, but are not limited to, structural biology, macromolecular assemblies, biochemistry or excitable membranes, transport mechanisms, receptor biochemistry and membrane assembly. Further information about this position at the full professor level although junior persons with outstanding qualifications will be considered. The appointment will be made jointly with the chemistry or biology department as appropriate to the background and interests of the appointee. Interested persons should forward curriculum vitae, statement of research interests and the names and three references to:

F. W. Dalhquist, Chair
Structural Biology Search Institute of Molecular Biology University of Oregon Eugene, OR 97403

The closing date is 15 April 1989. The University of Oregon is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN APPLIED MOLECULAR BIOLOGY/BIOCHEMISTRY

The Department of Chemical and Biological Sciences at the Oregon Graduate Center is expanding its biotechnology program and invites applications for three faculty positions in molecular biology and protein engineering. We are interested in candidates with expertise in the fields of (i) molecular biology of yeast/fungi, (ii) molecular biology/ biochemistry of prokaryotic soil microorganisms, and (iii) genetic engineering of proteins. Rank and salary are open. Applicants who value an environment fostering excellence in research are encouraged to apply.

Minimum requirements: Ph.D., several years of post-doctoral experience, and ability to develop a strong research program and graduate level courses in areas of expertise. Applicants will present their qualifications to the level of assistant professor or higher depending on qualifications.

Send curriculum vitae, a statement of research interests, and the names, addresses, and telephone numbers of three references to:

Dr. Michael H. Gold, Search Committee Chair
Department of Chemical and Biological Sciences
Oregon Graduate Center
19600 N.W. Walker Drive
Beaverton, OR 97006-1999

Equal Opportunity Employer.
Protein Biochemist/Enzymologist

Fritzsche Dodge & Olcott, a member of the BASF Group, is a leader in the creation of flavors and fragrances. Due to expansion, we are seeking a Research Scientist for our Corporate Research Laboratories in New York.

This individual will be involved in the examination of enzyme technology for the production of specialty chemicals. The successful candidate should have a Ph.D. in biochemistry with laboratory experience in the isolation and characterization of enzymes from plant sources. Familiarity with the development of enzyme assays and immobilization techniques is highly desirable, along with 2-4 years’ industrial enzyme experience is required.

This position requires good communication skills and the ability to interact effectively with a multidisciplinary team. We offer a professional environment, competitive salary and comprehensive benefits package. For immediate consideration, please forward your resume and salary requirements in confidence to: Human Resources Department, Fritzsche Dodge & Olcott, A Unit of BASF K&F Corporation, 76 Ninth Avenue, New York, NY 10011. An Equal Opportunity Employer.

BASF Group

RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW
DEPARTMENT OF MOLECULAR BIOLOGY
CLEVELAND CLINIC FOUNDATION

In this newly formed Department several positions are immediately available for research associates and postdoctoral fellows in the following research groups. Excellent compensation and benefits are available for each position:

S. Baneljee: Molecular mechanisms in neoplastic transformation.
M.S. Galinski: Paramyxovirus gene expression/molecular mechanism of host-virus interaction.
R.M. Ransohoff: Proliferation and class II MHC expression in cultured human glioblastoma cells.

Please address all applications or inquiries including curriculum vitae and names of references to: Dr. M.L. Harter, Dept. of Molecular Biology, The Cleveland Clinic Foundation, Bldg. NN1-13, 9500 Euclid Avenue, Cleveland, OH 44195-5178.
Postdoctoral Scientist

Smith Kline & French Laboratories has excellent Postdoctoral opportunities available in our new state-of-the-art research facility near the Philadelphia suburb of Valley Forge.

We consider postdoctoral studies to be of major importance in a scientist's career and encourage publication of findings in leading journals and a full interaction with the scientific community. Our environment is designed to foster creative research and to promote personal and professional growth.

Our postdoctoral appointments are normally for a period of two years.

The Department of Biological Process Sciences of Smith Kline and French Laboratories is seeking a postdoctoral fellow to investigate methods of production and purification of anisotopically labelled proteins for structural studies. This individual will be involved in the fermentation of recombinant E. coli for the production of HIV proteins and in the purification and biochemical analysis of these proteins. This individual will join a multidisciplinary team involved in the structural and functional analysis of the proteins of HIV. The successful candidate must have a Ph.D. in Microbiology, Biochemistry, or a related field and less than three years of postdoctoral experience. Expertise in fermentation, microbial expression systems, and/or protein purification is highly desirable.

We offer an excellent compensation and benefits package. Interested candidates should send a resume to Barbara Schwartz, Employment Administrator, S0082, Smith Kline & French Laboratories, P.O. Box 1539, King of Prussia, PA. 19406-0939. We are an equal opportunity employer, M/F/H/V.

Assistant Scientists
Research Opportunities

Pfizer

Protein Chemists

Synergen Inc., an established biotechnology company in Boulder, Colorado, seeks to hire Ph.D.'s with experience in Protein Chemistry and Protein Biochemistry. Successful candidates will have experience in purifying proteins and in characterizing proteins and peptides. Synergen's interests include the discovery of proteins important in the physiology of inflammation and wound healing, and in the molecular basis of intercellular communication. Persons who have experience with developing assays and characterizing proteins involved in these processes are especially encouraged to apply.

Positions are available for persons who have recently completed postdoctoral training as well as for more experienced scientists. Please send a CV, bibliography and names of references to:

Director of Recruitment
Synergen, Inc.
1885 33rd Street
Boulder, CO 80301

Research Manager; Research Supervisor; Researcher

Sandoz Ltd., Switzerland, a multinational chemical corporation with a history of over one century and long tradition, operates more than 160 affiliates in 45 countries around the world. Since 1960, Sandoz Pharmaceuticals, Ltd., Japan, has pursued research & development, production and marketing of pharmaceuticals attuned to the needs of the Japanese market. In 1986, annual sales in Japan were approx. US$600 million, and employees numbered 1200. We now seek highly qualified supervisory personnel to promote establishment of a full-round basic research institute in Japan.

POSITIONS: Research Manager; Research Supervisor; Researcher

REQUIREMENTS: PhD or MD, with a thorough knowledge of:
- Pharmacology
- Pharmacokinetics
- Biology/Molecular Biology

HOW TO APPLY: Send your resume to:
Mr. M. Misawa
Sandoz Pharmaceuticals, Ltd. Satellite Office
c/o Human Resources
Sandoz Pharmaceuticals Corp.
Rt. 10, P.O. Box 11, East Hanover
N.J. 07936

Your application will also be received at Federation of American Societies for Experimental Biology/Placement Service meeting in New Orleans (Mar. 20–23, '89). See FASEB brochure for detail.

Sandoz Pharmaceuticals, Ltd.
SANDOZ 4-17-30, Nishi-azabu, Minato-ku, Tokyo, Japan 106
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**Division of Pharmacology**

**Jr. Research Pharmacologist (Cardiovascular)**
Pos.#60670-4

To participate in the discovery and development of therapeutic agents for cardiovascular diseases. Specified areas of research will be directed at defining the regulation of receptor mediated signal transduction. Candidates should have a Bachelor's degree in a biological or chemical science with two years laboratory experience in pharmacology OR a Master's degree in biochemistry or pharmacology. Experience with isolated tissues and performing in vitro cardiovascular studies preferred.

Pos.#60913-4

You will research the development of therapeutic agents for cardiovascular diseases with particular emphasis in hypertension. The successful candidate will have a Bachelor's degree in a biological or chemical science with two years experience in pharmacology in vivo research OR a Master's degree in pharmacology or physiology. Experience in cardiovascular pharmacology required. Knowledge of computers and in vitro techniques a plus.

**Jr. Research Pharmacologist (Electrophysiology)**
Pos.#3015-4

To assist the supervision of the Biophysics Laboratory with the experimental investigation of the effects of potential CNS active drugs on synaptic transmission. Candidates need a Master's degree in a life science with coursework or experience in electrophysiology OR a Bachelor's degree in a life science with two years practical experience in electrophysiology.

**Burroughs Wellcome Fellow (Postdoctoral)**
Pos. #1411-4

To participate in the ongoing research to discover new agents with receptor and site selective actions. Candidates must have a Ph.D. in cardiovascular/autonomic pharmacology. Experience in in vivo techniques to study mechanisms of actions of cardiovascular drugs with special emphasis on hypertension required.

Pos.#60594-4

The study of neurotransmitter release and neurochemical indices of changes in CNS neuronal activity associated with the mechanism of action of antipsychotics and/or anxiolytics. Emphasis will be placed on detecting in vivo release of neurotransmitters utilizing microdialysis techniques. Candidates must have a Ph.D. in pharmacology, neurochemistry or biochemistry along with experience with in vivo brain microdialysis. Experience with measurement of catecholamines using HPLC.

Postdoctoral fellows are initially appointed for up to one year with renewal for a second year upon the mutual agreement of the employee and the Company.

**Division of Organic Chemistry**

**Ph.D. Peptide Chemist**
Pos.#60809-4

You will design and carry out experiments to determine peptide/protein sequence and amino acid composition using a variety of analytical methods. Candidates need a Ph.D. in chemistry or biochemistry including two years practical experience in the analysis of peptides and proteins from both synthetic and biological origin OR a Master's degree in chemistry or biochemistry with five years experience with chemical and enzymatic degradations/modifications.

The pride of working for an industry leader is one of our benefits here. But there are others more tangible...our salaries and the finest benefit program in the industry. It includes the best pension plan in the industry, comprehensive health and dental plans, an excellent savings plan...even fitness facilities. If you are interested in working for us, we would like to hear from you. Submit your resume indicating position applying for to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, 3030 Cornwallis Road, Research Triangle Park, NC 27709.
HUMAN ALERTNESS RESEARCH CENTER
INSTITUTE FOR CIRCADIAN PHYSIOLOGY

FACULTY POSITIONS at the junior or senior level are available in the Human Alertness Research Center at the Institute for Circadian Physiology. The successful candidate should be interested in research on the alertness mechanisms of humans and should have research interests in aspects of human circadian biology and associated neural and endocrine mechanisms. Research in the lab will include studies of circadian rhythms, sleep/wake cycles, alertness/awakeness, and the effects of sleep deprivation on human behavior.

Send applications to:
Dr. James Howard
Howard University
Washington, DC 20059

FISHERIES/WILDLIFE BIOLOGISTS
Two assistant professors. Ph.D. required. Postdoctoral experience preferred. Responsibilities include teaching an international level course in natural resource management and fisheries biology, and conducting research related to these areas. Applicants should have a Ph.D. in fisheries biology and a minimum of 2 years of postdoctoral or professional experience in fisheries management. Experience in developing cooperative arrangements with local and state natural resource agencies is desirable. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applicants should have a strong commitment to diversity and to the principles of equal opportunity. Salary is commensurate with qualifications. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

CIRCadian TRANSPORT (CIT) RESEARCH CENTER

HUMANS can transport across the circadian clock. The CIT Research Center, a new major research center at Dartmouth Medical School, is seeking a new scientist to work on the mechanism of circadian transport transport through the plasma membrane. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applicants should have a strong commitment to diversity and to the principles of equal opportunity. Salary is commensurate with qualifications. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

INSECT-PLANT PHYSIOLOGISTS
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

MARTIAL ARTS/PHYSIOLOGY
Assistants in martial arts physiology are needed at the University of Hawaii. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

MOLeCULAR BIOLOGIST
The Department of Biology at Dartmouth College is seeking applicants for a new faculty position at the rank of assistant professor. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

MORPHOLOGY/PHYSIOLOGY
The Department of Anatomy at the University of California, Berkeley, is seeking a new scientist to work on the mechanism of circadian transport transport through the plasma membrane. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

MUSCLE PHYSIOLOGY
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

NEUROMUSCULAR BIOLOGY
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

NEUROMUSCULAR BIOLOGY
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

NEUROPHYSIOLOGY
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.

NEUROPHYSIOLOGY
The Institute for Research in Plant Physiology at the University of California, Berkeley, is establishing a new laboratory for research on the physiology of insect-plant interactions. The successful candidate will be expected to establish an active, externally funded research program and to develop effective teaching skills. Applications must be received by January 15, 1989. Please send curriculum vitae, a one-page statement of research interests, and the names of three references to: Dr. James Howard, Howard University, Washington, DC 20059.
The Squibb Institute for Medical Research is an internationally recognized leader in the research & development of innovative pharmaceuticals. We are greatly expanding the scope of our research programs and currently have several exceptional opportunities available for qualified Ph.D.'s.

MACROMOLECULAR CRYSTALLOGRAPHY

This recently established department is conducting research to understand the mechanisms of molecular recognition. Initial studies will concentrate on antibody-antigen complexes with significant opportunity for self-directed study of other macromolecules. Requires a Ph.D. in Biochemistry, Chemistry or related discipline and a minimum of 2 years post-doctoral experience and a record of productivity in macromolecular crystallography. (Two positions available).

CELL BIOLOGY

The principal focus of this department is to gain a basic understanding of the pathophysiological mechanism involved in the initiation and progression of atherosclerosis. There are two positions available.

GENE REGULATION: You will be responsible for running a basic research laboratory devoted to investigating the regulation of gene expression at both the transcriptional and translational levels. There will also be research into the coordinate regulation of multigene metabolic pathways. Requires a Ph.D. in Molecular Biology or related discipline and a minimum of 2 years post-doctoral experience in the molecular biology of gene regulation. Experience with homologous recombination in eukaryotic cells would be useful.

PROTEIN SYNTHESIS AND SECRETIONS: You will be responsible for running a basic research laboratory devoted to investigating the intracellular synthesis of proteins, their processing, intracellular transport, and secretion. A major emphasis will be placed on the understanding of the assembly of macromolecular lipo-protein complexes in the endoplasmic reticulum and the intracellular transport of these complexes. Requires a Ph.D. in Cell Biology or related discipline and a minimum of 2 years post-doctoral experience in the cellular mechanisms of synthesis and secretion of proteins in higher eukaryotic systems.

For confidential consideration, please submit your resume to: The Squibb Institute For Medical Research, Human Resources Department 148, P.O. Box 4000, Princeton, NJ 08543. An equal opportunity employer.

RESEARCH SCIENTISTS
MAMMALIAN CELL GENE EXPRESSION

Amgen, an industry leader in applied biotechnology, has an immediate need for 2 Research Scientists to contribute to our research programs in mammalian cell gene expression.

RESEARCH SCIENTIST CELLULAR PHYSIOLOGY
Dept. #347

This position requires a Ph.D. in mammalian cellular physiology and/or somatic cell genetics as well as a minimum of 2 years' postdoctoral experience in growth regulation and differentiation of animal cells. Familiarity with culturing various primary and established cell lines as well as experience in cloning and sorting cells and selecting metabolic and drug resistant mutants are essential. Some understanding and experience in cell culture scale-up are desirable.

RESEARCH SCIENTIST GENE REGULATION
Dept. #348

Qualified candidates for this position will have a Ph.D. and a minimum of 2 years' postdoctoral experience in eukaryotic post-transcriptional gene regulation, including protein processing and secretion. Familiarity with glycosylation pathways and translation transport at the molecular level is essential.

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HEAD, ENDOTHELIAL CELL RESEARCH

Berlex Laboratories, Inc. is a leader in basic research of endothelial cell function. We currently seek an internationally recognized scientist in endothelial cell biology to join our highly visible team to ensure progress of ongoing programs, to initiate new research directions and to be part of future breakthroughs which can be applied to better understanding and novel treatment of atherosclerosis. The successful candidate will have the title of Investigator, the second highest rank in our scientific ladder.

To qualify, your background should include a Ph.D. in cell biology, biochemistry, physiology or molecular biology, at least five (5) years of postdoctoral training and an excellent publication record. Experience with endothelial cell biology is highly desirable.

Berlex Laboratories is part of a global family of companies engaged in the research, development, manufacturing and marketing of chemical-pharmaceutical products in 120 plants and subsidiaries in 140 countries, employing over 25,000 people. Combined sales are in excess of $2.7 billion.

At Berlex Laboratories, you will be supported, recognized and encouraged to pursue your scientific career and ideas. In addition to the excellent resources and stimulating research environment, the position offers an attractive salary and benefit package. For immediate, confidential consideration, send your CV and salary history to: Joan Blanchini, Human Resources Representative, R&D, BERLEX LABORATORIES, INC., 110 East Hanover Avenue, Cedar Knolls, NJ 07927. Equal opportunity employer M/W/H/V.
Technology Management and Policy Analysis

Battelle, Pacific Northwest Laboratories located in Richland, Washington, is seeking qualified candidates to join its multidisciplinary team of professionals in researching regulatory and policy aspects of technology.

**Senior Researcher and Technical Group Leader**

Will focus on the application of risk analysis, cost-benefit analysis, policy analysis, and decision analysis to nuclear regulation, environmental regulations, energy conservation and utilization, national security, and international issues.

Desired background for both positions includes an advanced degree in science, engineering, policy analysis or law with industrial and/or governmental experience in technology issues, and strong communication skills. Knowledge of nuclear or other energy technologies is desirable.

To pursue these career options, request a recruiting bulletin or send your resume to: Anthony F. Gasperino, Employment, Battelle-Pacific Northwest Laboratories, P.O. Box 999, Dept. 096, Richland, WA 99352. An equal opportunity employer. U.S. citizenship required.

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**ASSISTANT/ASSOCIATE PROFESSORS**

**AIDS PROGRAM AT THE SALK INSTITUTE**

We are initiating a comprehensive research program to study the biology of AIDS. We seek candidates working in the areas of HIV replication and HIV-host interactions. Our aim is to develop a program that will be interactive with other major areas of research at The Salk Institute which include Cancer Biology, Receptor Biology, Immunology, Neuroendocrinology, Retrovirology, Developmental Biology and Human Genetics. Interested candidates should apply by May 15, 1989 by submitting a curriculum vitae, a brief description of future research plans and three references. Send application to: Dr. Inder M. Verma, AIDS Search Committee, The Salk Institute, P.O. Box 85800, San Diego, CA 92138.

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- **MOLECULAR BIOLOGY**: Dr. Judith Chrisman
- **CANCER IMMUNOLOGY**: Dr. Gloria Heppner
- **CARCINOGENESIS**: Dr. Charles King
- **METASTASIS**: Dr. Avraham Raz
- **CELL TRANSFORMATION**: Dr. Jose Russo
- **GENETICS**: Dr. Sandra Wolman

Applicants will be selected on potential for achievement in cancer research. Previous training in molecular biology preferred. Salaries are $22,000-$24,000 depending upon experience.

Submit CV, summary of previous research and statement of areas of current interest along with names of three references to:

Ms. Judith Jenkins
Michigan Cancer Foundation
110 E. Warren Avenue
Detroit, Michigan 48201

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DIRECTOR
MOLECULAR GENETICS DIVISION

Children's Hospital National Medical Center of Washington, D.C. is seeking an individual to direct a newly created Molecular Genetics Division in the Department of Clinical Genetics. Candidates must have an M.D., Ph.D. or M.D./Ph.D. degrees and have previously demonstrated skill in the field of molecular genetics. The ability to supervise a rapidly growing research team and to conduct appropriate independent research is required.

Excellent salary and benefits package with tenured appointment at the Associate Professor or Professor level in the Department of Child Health and Development of George Washington University. Position available July 1, 1989. Send curriculum vitae and brief statement of research interests to:

Kenneth N. Rosenbaum, M.D.
Director, Clinical Genetics
and Genetics Laboratory

CHILDREN'S HOSPITAL NATIONAL MEDICAL CENTER
111 Michigan Ave., N.W.
Washington, D.C. 20010

Equal Opportunity Employer

Australian Research Council

QUEEN ELIZABETH II FELLOWSHIPS

The Australian Government has established the Queen Elizabeth II Fellowships to encourage research by young scientists of exceptional promise and proven capacity for original work. Under this Scheme, 15 awards will be made annually. Fellowships may be taken up in industry, universities, colleges of advanced education or government research organisations in Australia and are normally for three years. Tenure of the Fellowships expected to commence within nine months of the announcement of the award.

**Qualifications**

Fellowships will be awarded to persons holding a PhD or equivalent qualifications, or equivalent research or professional experience. The decisions regarding equivalent qualifications will be made on a case by case basis. Recommendations for the award of Fellowships will be made to the Minister for Employment, Education and Training by the Australian Research Council. Fellowships will in general be restricted to applicants who are not more than 30 years of age when applications close, but consideration will be given to older people with less than five years post doctoral experience who have had an interrupted or late start to their academic career.

**Eligibility**

Fellowships will be awarded on merit to suitably qualified persons.

**Salary**

$31,143 (Australian) per annum increased to $33,738 per annum at age 28 years.

**Travel Expenses**

Necessary travel expenses are payable.

**Research Support Grants**

An additional supporting grant of up to $3,000 per annum to help cover research costs is available.

**Applications**

Persons interested in applying for the above Fellowships should obtain application forms and a statement of the Conditions of award from:

Director
Research Fellowships
Research Policy and Grants Branch
Department of Employment Education and Training
GPO Box 9880
CANBERRA ACT 2601 Australia

The next round of fellowships will be announced in October 1989. Applications received after the closing date of 14 April 1989 will not be considered.
MOLeULAR AND CELLULAR BIOCHEMISTRY
POSTDOCTORAL RESEARCH ASSOCIATE

Research in cellular biology and molecular cell biology, particularly on cell surface receptor dynamics and transmembrane signaling mechanisms. Applicant's research will utilize the facilities of our Developmental Resource for Biophysical Imaging and Otoelectronics. Current group interests include F2 receptors, lipotropin receptors, intramembrane receptor interactions, conformational transformations and mechanotransduction mechanisms. The position involves some service as a cell biological and biochemical consultant to the group and collaboration with the multidisciplinary users and collaborators in the laboratory. For measurements on cells in culture available. Applicants must have a strong research background in quantitative electro-optical and confocal microscopic image acquisition, digital image analysis, picometer sensitivity interferometry, fluorescence photophysics and photobleaching photochemistry, and fluorescence photochemical indicators of cellular electrochemistry. Supporting facilities for tissue and cell culture, biotechnology, molecular biology, analytical immunology and physical and computer services are available.

Position appropriate for biophysical chemist, molecular cell biologist, or biochemist/physicist with background capability for interdisciplinary research and motivation to learn biological technologies.

Send resume, letter of interest, names of three references to: Dr. Thomas A. Yoder, 301-689-4120, University of Texas, Galveston. Send curriculum vitae to: Dr. James A. Abney, 215-387-1630, University of Delaware, Newark. Resume and names of three references should be sent by 5 April 1990. Review of applications will be ongoing and a position is available.

MOLeULAR IMMUNOLOGIST
SAN DIEGO STATE UNIVERSITY

The Department of Biology invites applications for a tenure-track position at the assistant, associate, or full professor level in molecular immunology. Applicants must hold a Ph.D. or equivalent degree and have postdoctoral experience. We seek candidates with research interests in the molecular biology of the immune system with preference for studies involving immune system-HIV interactions. Teaching responsibilities will be at the undergraduate and graduate levels in the area of expertise. Applicants, including curriculum vitae, brief description of research interests, and the names and addresses of three professional references should be sent by 5 April 1990. Applications from women, members of ethnic minorities, and persons with disabilities are particularly encouraged. SDSU is an Affirmative Action/Equal Opportunity Employer.

NEUROSCIeNTIST, SYSTEMS PHYSIOLOGIST—Tenure-track position available in department with active neuroscience group. Position is at assistant professor level (although outstanding candidates with more experience will be considered). Preference will be given to applicants with interest in the ocular motor system and in plasticity, learning and/or functional recovery from CNS injury. Position involves participation in teaching one course to medical students. Send curriculum vitae and three letters of recommendation to: Dr. D. R. Eysenck, Search Committee, Department of Anatomy, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129. Equal Opportunity Employer, M/F.

PLANT ECOLOGIST (TERRESTRIAL). Assistant professor. Tenure-track. Ph.D. required. Teach biology and wildlife courses. Experience in eastern deciduous and tropical forest systems desired. Participation in developing International Literature for Renewable Resources (emphasis southern Africa/Central America) desired. Telephone inquiries to Dr. Wayne A. Yoder, 301-689-4373, University of Maryland, College Park, Maryland 20742. Send letter of interest, curriculum vitae, transcripts, and three letters of recommendation to: Dr. Wayne A. Yoder, 301-689-4373, University of Maryland, College Park, Maryland 20742. Review of applications will be ongoing and positions are available.

U.S. ARMS CONTROL AND DISARMAMENT AGENCY
PHYSICAL SCIENTIST, GS-13/14

$41,599 to $63,172

The U.S. Arms Control and Disarmament Agency is seeking a physical scientist to assist the Verification Division in developing new technologies for verifying the control of nuclear weapons. The successful candidate for this position should have a Ph.D. in related fields and must be knowledgeable in one or more of the following areas: nuclear physics, chemistry, mathematics or computer science. The successful candidate will be expected to develop new methods for verifying the control of nuclear weapons.

Send resume and names of at least three professional references, for contact (letters of recommendation desired) by 31 March 1989 to: Mr. C. Douglas Schmidt, Director of Personnel Services, Washington, D.C. 20520. Equal Opportunity Employer.

PLANT GENETICIST

Skidmore College invites applications for a 1-year, full-time position at the assistant professor rank. The successful candidate will be expected to teach plant biology (in both fall and spring terms), genetics, plant physiology or some other, upper-level plant course, and guide undergraduate research projects. Applicants should have an earned Ph.D. Send curriculum vitae, graduate and undergraduate transcripts, and three letters of recommendation by 30 March 1989 to: Elaine R. Raftery, Department of Biology, Skidmore College, Saratoga Springs, NY 12866. An Affirmative Action/Equal Opportunity Employer M/F.

PLANT-MICROBE
MOLEcULAR BIOLOGISTS

The Department of Microbiology at the University of Vermont is continuing to expand its research base in molecular biology. Tenure-track positions at the assistant and/or associate professor level are available in areas of molecular microbiology relevant to the agricultural sciences, environmental sciences, and/or applied microbiology. The new faculty members will be expected to teach plant microbiology and to develop and direct research programs in these areas. Applicants' research programs are expected to address questions that relate to genome structure, expression or function. A Ph.D. and postdoctoral experience is required. Applications, including a letter of interest, curriculum vitae, and names of three references should be sent to: Chair, Department of Microbiology, University of Vermont, Burlington, VT 05405. A Ph.D. is required. Send letter of interest, curriculum vitae, and names of at least three references to: Chair, Department of Microbiology, University of Vermont, Burlington, VT 05405. Deadlines for positions will be in January and June. A Ph.D. is required. Send letter of interest, curriculum vitae, and names of at least three references to: Chair, Department of Microbiology, University of Vermont, Burlington, VT 05405. Review of applications will be ongoing and positions will be filled as they are filled.

PLANT PHYSIOLOGIST

Butler University is seeking to fill a tenured-track position at the assistant professor level to begin fall 1989. The successful candidate will be expected to teach and conduct research in plant physiology. Recent graduate degree required. Send letter of interest, curriculum vitae, and names of at least three references to: The Dean, School of Science and Mathematics, Butler University, Indianapolis, IN 46208. Butler University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—PROTEIN BIOCHEMISTRY

Available in 1989 to study molecular interactions of peptide toxins with voltage-dependent ion channels and related proteins. A novel subunit-crosslinking technique is being used to study the class of scorpion peptide toxins. Excellent HPLC and sequencing facilities; single-channel patch clamp equipment. Experience in biochemistry or molecular biology is invited to send curriculum vitae and references to: Dr. Edward Moczydlowski, Department of Pharmacology, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. An Equal Opportunity Employer.
ENDOWED PROFESSORSHIP IN MOLECULAR GENETICS

The University of Cincinnati and the State of Ohio have created an endowed professorship in the area of Molecular Genetics. This professorship, named the Ohio Eminent Scholar, is designed to add an outstanding scientist to the newly formed Department of Molecular Genetics, Biochemistry and Microbiology in the College of Medicine. Areas of interest include immunology, differentiation and development and human genetics. The department has major research programs including the recent award of a Program of Excellence in Molecular Biology from the Heart, Lung and Blood Institute of NIH. The Eminent Scholar will fulfill a pivotal role in expanding strength and interactions in the College. The University of Cincinnati is a comprehensive university in the state system. Curriculum vitae should be sent to:

Dr. Jerry B. Lingrel  
Department of Molecular Genetics, Biochemistry & Microbiology  
University of Cincinnati  
College of Medicine  
Cincinnati, Ohio 45267-0524  
Affirmative Action/Equal Opportunity Employer

DIAGNOSTIC RESEARCH

THE FORMULA FOR SUCCESS....

is Carter Wallace and you. As the expansion of our Diagnostic Research & Development group continues at our East Windsor, NJ facility, we are looking for qualified Scientists at all levels to conduct basic and applied research leading to the development of rapid, in vitro diagnostic tests.

We need individuals with strong backgrounds in Microbiology, Biochemistry, Molecular Biology or Immunology, and who have hands on experience in Antigen Purification, Protein Chemistry, HPLC, ELISA Methodologies, and/or Conjugate Preparation. You will be provided opportunities to work independently as well as to be a team player in product design and development. Your creativity, enthusiasm, and desire to be the best in your field will allow you to make significant contributions to the industry.

Carter Wallace will provide a challenging environment, and an opportunity for personal and professional growth. Our salaries are comparable with industry leaders and we have an excellent benefits package including 14 paid holidays.

To determine if you and Carter Wallace create the formula for mutual success, please send your resume or CV in confidence to:

Mr. Glenn T. Gehrrep  
Personnel Manager  
CARTER WALLACE INC.  
Post Office Box 1366  
Cranbury, NJ 08512  
An Equal Opportunity Employer

Molecular Geneticist

Lawrence Livermore National Laboratory, located in the San Francisco Bay Area, is seeking applicants for a career staff position in the Biomedical Sciences Division. A multidiscipline project in cytogentic and molecular biology of somatic cell mutations in humans and cultured human cell has an opening for a senior scientist. Laboratory research and supervision of a research group will be expected.

PhD with an effective background in molecular genetics and expertise in molecular analysis of gene expression in mammalian systems is required. Expertise in mapping the relation between physical and recombinatorial maps also is highly desirable. Ability to work in a team environment with engineers and physicists is essential.

Send curriculum vitae to Earl G. Morell, Personnel Operations Division, Lawrence Livermore National Laboratory, P.O. Box 808, L-725, Dept. KSC3A902B, Livermore, CA 94550. An Equal Opportunity Employer.

CNS Postdoctoral Fellow

Behavioral Pharmacology

Bristol-Myers Pharmaceutical Research and Development Division is seeking a Postdoctoral Fellow trained in animal behavioral paradigms designed to assess in vivo preservation of function after CNS insult or trauma to join its Neurodegenerative Diseases Program. Previous experience using relevant behavioral paradigms is required. Experience using techniques such as the Morris Water Maze, computer controlled operant systems (SKED, SAS) and species such as rat, mouse, gerbil, and pigeon would be assets. Responsibilities will include implementing a plan of research utilizing behavioral techniques to demonstrate drug potential in CNS recovery, protection or cognitive enhancement.

The candidate must have completed or be near completion of the Ph.D. or equivalent degree in the Neurosciences, Psychology or a related discipline, and may also have postdoctoral training. The successful candidate will be eager to collaborate with other CNS laboratories and colleagues in the Cardiovascular Therapeutic Area. Publication of results of the studies completed during the postdoctoral tenure will be encouraged.

The appointment will be for one year with possible renewal for a second year. All funding, including support, salary and benefits, is provided by Bristol-Myers Company, Pharmaceutical Research and Development Division, Dept. SS12/SCZ, P.O. Box 5100, Wallingford, CT 06492. An Equal Opportunity Employer.

Bristol-Myers Company  
Pharmaceutical Research & Development Division
POSTDOCTORAL ASSOCIATE position available immediately in the area of peptide synthesis related to the development of novel AIDS vaccines. Position requires individual to participate in the design and synthesis of synthetic anti-retroviral drugs and to study variable region structures to be used for the induction of anti-HIV responses in animals. This position is under the directorship of Dr. Kurtis, within our Department of Virology and Immunology. Southwestern Foundation is a private non-profit institution funded, in part, by NIH. Annual postdoctoral salaries range upward from $21,070 with consideration for prior, relevant postdoctoral experience. Applicants should have a background in biochemistry and/or organic chemistry, or related area, with an interest in immunology. Please send curriculum vitae and names and telephone numbers of three references to: Personnel Director (868), Southwestern Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78284. Equal Opportunity Employer M/F.

POSTDOCTORAL POSITION available immediately to study developmentally regulated penicillin-binding proteins in Bacillus subtilis. Experience in molecular biology desired. Send curriculum vitae and names of three references to: Dr. C. Buchanan, Department of Biological Sciences, Southern Methodist University, Dallas, TX 75275. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately in group investigating the biosynthesis and structure of membranes. Ongoing studies involve (i) the isolation of recently discovered enzymes of phospholipid metabolism, (ii) the localization of these enzymes within cells, (iii) the delineation of metabolic pathways to which these enzymes contribute, and (iv) the isolation and characterization of recently discovered membrane proteins that contain covalently bound isoprene groups. Send curriculum vitae, three letters of recommendation, and summary of career goals to: Dr. John A. Glomset, Howard Hughes Medical Institute, SL-15, University of Washington, Seattle, WA 98195. The Howard Hughes Medical Institute is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION to study mechanisms of tinnitus. Applicant should have Ph.D. with experience in single cell recording from auditory pathways, histology, pharmacology, and computers. Send curriculum vitae and names of three references to: Dr. Pavel J. Jastreboff, Department of Surgery, Yale University School of Medicine, P.O. Box 3333, 333 Cedar Street, New Haven, CT 06520. Yale University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION Available immediately for person interested in studying gene structure, regulation or evolution in chromophytic and rhodophytic algae. Applicant should submit curriculum vitae, description of relevant experience, and three letters of reference to: Dr. R. A. Cattolico, Botany, KB-15, University of Washington, Seattle, WA 98195. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately for biochemists, biophysicists and molecular biologists to study (i) the mechanism and regulation of gene expression in both prokaryotic and eukaryotic systems, and (ii) the nucleic acid-protein interactions. Send resume and three letters of recommendation to: Professor Cheng-Yen Wu, Department of Pharmacological Sciences, SUNY Stony Brook, Stony Brook, NY 11794-8651. SUNY Stony Brook is an Affirmative Action Equal Opportunity Educator and Employer. AK34.

POSTDOCTORAL POSITIONS available to study DNA transformation in the nematode C. elegans, to investigate RNA processing especially focusing on mechanisms of both cis- and trans-splicing, or to study the role of cellular growth factors in development. The work is supported by NIH funding and will be carried out in the Developmental Biology Laboratory at Synergen, Inc. Background in molecular biology, genetics or biochemical try required. Please send curriculum vitae, bibliography, and names of references to: Dr. David Hirsh, Synergen, Inc., 1885 33rd Street, Boulder, CO 80301.

POSTDOCTORAL RESEARCH ASSOCIATE. The Protein Data Bank has an opening available in spring 1989 for a postdoctoral research associate to participate in an on-going research project designed to develop strategies for identifying regions in deposited structures that may be subject to error, and to study the effects of environmental factors such as crystal packing on the average geometries of proteins in the solid state. Excellent dedicated computational facilities are available for this work, including a high-performance graphics workstation. It would be useful for applicants to have knowledge of refinement protocols currently employed in the crystallographic studies of both large and small molecules. Applicants with a background in applied mathematics and a desire to learn about computational aspects of protein crystallography will be considered. Preference in FORTRAN programming is required. The initial appointment will be for 1 year, with extension possible. Applicants should send curriculum vitae and names of three references to: Dr. Enrique A. Abola, Chemistry Department, Brookhaven National Laboratory, Associated Universities, Inc., Long Island, New York, NY 11797. Equal Opportunity Employer M/F.

RESEARCH SCIENTIST PHARMACOLOGY

Amgen is a dynamic, growing organization producing human therapeutic products through recombinant DNA technology. Our leadership in the development of Erythropoietin and Granulocyte Colony Stimulating Factor has placed us at the leading edge of the biotechnology industry. Our continued growth has created an immediate opportunity for a Research Scientist in our Pharmacology Group.

Applicants must possess a Ph.D. in Pharmacology or a related discipline with a strong background in whole animal research and experience in one or more of the following areas: inflammation, wound repair, immunopharmacology, hematology and oncology. Proficiency in statistical analysis of data is essential, and postdoctoral training is highly desirable.

Amgen offers a competitive compensation and benefits package, including equity participation, as well as a challenging and stimulating research environment. Our location one hour northwest of Los Angeles offers the best in Southern California living. Qualified applicants should direct a resume and a list of 3 references, in confidence, to:

Recruitment, Dept. #372
AMGEN
1900 Oak Terrace Lane
Thousand Oaks
CA 91320
Equal Opportunity Employer

SK&F
A SmithKline & French Laboratories Company
We are currently looking for an experienced Biochemist to join our expanding Virology Department, currently based at Greenford, but moving to our new research headquarters in Stevenage in a few years time.

You will lead a small group studying the mechanism of action of novel anti-herpes agents and developing novel anti-herpes targets.

You should have substantial experience in protein biochemistry (including a PhD or equivalent) and have specialised in enzyme kinetics, protein purification and related analytical methods.

In addition to an excellent salary and bonus scheme other benefits will include 25 days' holiday, subsidised sports, social and restaurant facilities as well as full assistance with relocation where appropriate.

Please send a CV or phone for an application form to Ted Smith, Senior Personnel Officer, Glaxo Group Research, Greenford Road, Greenford, UB6 0HE, England. Telephone 01-822 3434, ext. 2934, quoting reference number G89035.

For over 100 years, Abbott Laboratories has provided quality healthcare products and services worldwide. Now approaching $5 billion in sales, our ongoing expansion provides opportunity for qualified professionals in the following areas.

**DRUG DELIVERY**

Bioanalytical Chemist

Responsibilities include development, validation and supervision of novel, highly sensitive and selective analytical methods for drugs and metabolites in biological matrices. We require experience in bioanalytical methods development, functional group derivatization, chemical kinetics, pharmacokinetics, statistics and computer applications. A Ph.D. in Bioanalytical Chemistry and a high level of proficiency in technical writing are required. Job #1

Pharmacokineticist

Responsibilities primarily include the design, data analysis and reporting of animal and clinical pharmacokinetic and biopharmaceutical studies. Selected candidate is also responsible for the supervision, validation and implementation of method development. Sound knowledge of chromatographic techniques, bioanalytical procedures, pharmacokinetics, biopharmaceutics, metabolism, physiology and statistics required. A Ph.D. in Pharmacokinetics, Biopharmaceutics, or equivalent with a minimum of 2 years experience is essential. You must have highly proficient writing skills. Computer software familiarity and programming skills are desirable. Job #2

**DRUG DISCOVERY**

Ph.D. Renal Pharmacologist/Physiologist

Cardiovascular Research Division

We seek a senior research pharmacologist with a minimum of 2 years postdoctoral experience to evaluate drug agents in models of acute and chronic renal failure. The selected candidate will possess extensive knowledge of hemodynamics and renal function. A working knowledge of receptor pharmacology is desirable. Job #3

Electrophysiologist

Neuroscience Research Division

Responsibilities include extracellular, intracellular and patch-clamp recording from a variety of preparations. To qualify, the selected candidate will have at least 1-2 years of experience in electrophysiology and have a Master's degree, or a B.S. in Biology or Physiology with experience equivalent to a Master's degree. Job #4

Abbott Laboratories offers a stable, well-managed environment which promotes superior scientific discovery. We also provide excellent compensation with benefits that include profit sharing and stock retirement plans.

Abbott representatives will be at the FASEB meeting in New Orleans, March 20th-23rd.

To arrange an interview, or if you will not be able to attend, send your resume indicating job number interested in to: Patricia Handy, Corporate Placement, Dept. SCI/3-10, Abbott Laboratories, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.
POSTDOCTORAL RESEARCH ASSOCIATE. Research in carcinogenesis of aromatic hydrocarbons and estrogens, with emphasis on the one-electron oxidation mechanism. Biochemical analysis and identification of metabolites and DNA adducts by HPLC, FD, and postcolumn radioactivity detection. Salary $19,000. Send resume to: Dr. Eleanor G. Roven, Eppley Cancer Institute, University of Nebraska Medical Center, Omaha, NE 68107. Affirmative Action/Equal Employment Opportunity Employer.

POSTDOCTORAL RESEARCH FELLOW available in neurobiology to study the neuropharmacology and neurochemical basis of plant growth. The studies will involve isolation and identification of neurotransmitters and synaptic vesicle markers, and their function in the brain. Applicants should have a Ph.D. with experience in molecular biology and pharmacology. Send curriculum vitae and three references to: Dr. E. S. Zagon, Department of Pharmacology, Jefferson Medical College, Thomas Jefferson University, Room 329 Jefferson Alumni Hall, Philadelphia, PA 19107. Telephone number: 215-928-7971. Thomas Jefferson University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE. Department of Plant Pathology and Microbiology. Texas A&M University invites nominations and applications for the position of Professor and Head of the Department of Plant Pathology and Microbiology. We seek an individual who is dedicated to academic excellence, has a superior record of leadership in current basic plant pathology research, and possesses evidence of administrative ability. The successful candidate will be expected to spearhead research initiatives that integrate molecular plant pathology with existing research programs and to develop new research programs based on basic science questions. The department head will have responsibility for the state-wide Teaching-Research-Extension programs in plant pathology and the graduate program. The new head will be an accomplished scientist and will be expected to maintain an active research program. It is expected that the position be filled by 1 September 1989. Interested individuals should submit a letter of intent, their philosophy of the future direction of a department of plant pathology, curriculum vitae, a brief description of research activities, and names and addresses of five references to: Dr. F. G. Maxwell, Chairman, Search Committee, Professor and Head, Department of Entomology, Texas A&M University, College Station, TX 77842, or Dr. E. T. Sanderson, TAMU Plant Pathology and Microbiology.

POSTDOCTORAL RESEARCH ASSOCIATE. The University of California, San Diego, POST-GRADUATE RESEARCH BIOCHEMIST/MOLECULAR BIOLOGIST. The Chemistry Department has a position available immediately in the laboratory of Dr. Al-Zamel in the areas of protein structure, enzyme kinetics, and molecular biology. Applicants should have a Ph.D. and postdoctoral experience in biochemistry and molecular biology. The position is available immediately. The University of California is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. To investigate properties of membrane-associated enzymes. The applicant must have a Ph.D. in biochemistry, three or more years of postdoctoral experience in the areas of protein purification and membrane-protein interactions; and have demonstrated, through content of publications in refereed journals, a practical understanding of enzyme purification techniques, and the ability to develop procedures for isolation and characterization of phospholipids and phospholipid/sterol interactions. The successful candidate will have a demonstrable record of research productivity. Send curriculum vitae and three letters of recommendation to: Dr. A. K. Verma, University of Wisconsin-Campbell Discovery Center, Madison, WI 53792. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.
WHEN 1,000 MINDS GET TOGETHER
THE RESULTS ARE AMAZING.

One mind working alone rarely accomplishes as much as a team of top minds working together.

The Cytomegalovirus test, shown in the photo, was created by such a team from Syva Company. This amazing test that can deliver clear, reliable results in only 48 hours was created through the combined efforts of 1,000 employees of a leader in medical diagnostics.

For over 20 years, we've brought together top minds in a variety of disciplines to develop, manufacture and market tests to diagnose infectious diseases and detect drug levels — providing opportunities for scientists specializing in biochemistry, organic & surface chemistry, microbiology and nucleic acid probes to do their best work.

We offer you the same opportunity. You can further our advanced research in diagnostics — research that has yielded nearly 200 patents and over 22 laboratory-based assays.

You can put your talent to work in research teams or management, assisting us in developing our next generation of tests.

At the same time, you'll enjoy the benefits of a company that encourages staff members to expand their expertise through publication, professional seminars and a policy of progressive responsibility.

Come to Syva, and be part of our innovative team. You'll be amazed by the results. For information about available positions, contact Denise Pringle at: Syva, Professional Staffing, Dept. SC9, P.O. Box 10058, Palo Alto, CA 94303. We're an equal opportunity employer.
Postdoctoral Researchers

Genentech, Inc., a leader in the field of biotechnology, has added a dimension to our existing postdoctoral training program. This new program, administered by Dr. David Botstein, features opportunities for research and training across the whole spectrum of Research and Development. A number of positions is currently available in this new program.

Genentech is committed to maintaining a standard of excellence that encourages creativity and provides personal and professional growth. Many postdoctoral alumni have gone on to academic positions at major research universities, or have gone on to research positions in the biotechnology industry.

We expect Genentech Postdoctoral Fellows to conduct independent research in the areas of our scientific interests, publish in the leading scientific journals, attend and present their work at scientific conferences, and maintain close ties with the academic community.

Genentech offers an attractive salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to: Genentech, Inc., Attn: Yvonne Davino, Human Resources Dept. DB, 400 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support Affirmative Action and Equal Opportunity. Women and minorities are encouraged to apply.

DRUG DISCOVERY

Neuroscience Research Division

TEAM LEADER—COGNITION

The selected candidate will lead an interdisciplinary research team developing novel drugs for the treatment of CNS neurodegenerative disorders including Alzheimer's disease. The qualified candidate will have an extensive background in radioreceptor binding, receptor-effector coupling mechanisms and isolated cell and tissue assays, plus a broad knowledge of the cognition field. Strong evidence of innovative research and leadership skills are essential. We require a Ph.D. in Pharmacology, Neuroscience or Biochemistry with 5-10 years experience, as well as a solid record of scientific accomplishment in the field. Previous experience in drug development and management of a scientific team in an academic interest laboratory are highly desirable. Reply to job TL.

NEUROPHARMACOLOGIST—COGNITION

The qualified candidate will be involved in a multi-disciplinary research program which develops novel drugs for the treatment of cognitive disorders. You must have experience in radioreceptor binding assays, second messenger systems and in vitro cell and tissue assays. A Ph.D. in Pharmacology, Neuroscience or Biochemistry with 2-5 years of industrial or postdoctoral work are required. Communication and supervisory skills are essential. Reply to job C.

NEUROPHARMACOLOGIST—PEPTIDES

The qualified scientist will participate in an interdisciplinary research effort to discover novel therapeutic entities based on peptide neurotransmitters. Experience with radioreceptor binding assays, receptor-effector coupling and in vitro systems is essential. A Ph.D. in Pharmacology, Physiology, or Biochemistry is required, along with 2-6 years postdoctoral training. Exceptional communication, interpersonal and supervisory abilities are also necessary. Previous work in pharmaceutical drug development is desirable. Reply to job P.

Abbott offers an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area 30 miles north of Chicago.

Abbott representatives will be at the FASEB meeting in New Orleans, March 20th-23rd.

To arrange an interview, or if you will not be able to attend, send your resume indicating job interested in to: Patricia Handy, Corporate Placement, Dept. SCI/3-10, Abbott Laboratories, Abbott Park, IL 60064. Abbott is an Affirmative Action Employer.

ABBOTT LABORATORIES

An Equal Opportunity Employer M/F

DIRECTOR

ANALYTICAL RESEARCH AND DEVELOPMENT

Ross Laboratories, a division of Abbott Laboratories, and the leading producer of infant and adult nutritional products, has a need for a Director of Analytical Research and Development.

This assignment is responsible for the management of a large technical staff involved in the development and execution of analytical, biochemical, physical, and microbiological techniques. Qualified candidates will have a Ph.D (Chemistry preferred) and proven management experience in leading a technical organization. Foods, pharmaceuticals and cosmetics industry experience is most applicable. This is an outstanding opportunity for an individual seeking challenge and responsibility in a highly successful organization.

Ross Laboratories is located in Columbus, Ohio, a rapidly growing Midwestern city providing varied lifestyles at a moderate cost of living. Interested persons should send resume in confidence to: Management Recruiter.

ROSS LABORATORIES
Division of Abbott Laboratories, USA
625 CLEVELAND AVENUE
COLUMBUS, OHIO 43216

DRUG DISCOVERY

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ABBOTT LABORATORIES

An Equal Opportunity Employer M/F

DIRECTOR

ANALYTICAL RESEARCH AND DEVELOPMENT

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This assignment is responsible for the management of a large technical staff involved in the development and execution of analytical, biochemical, physical, and microbiological techniques. Qualified candidates will have a Ph.D (Chemistry preferred) and proven management experience in leading a technical organization. Foods, pharmaceuticals and cosmetics industry experience is most applicable. This is an outstanding opportunity for an individual seeking challenge and responsibility in a highly successful organization.

Ross Laboratories is located in Columbus, Ohio, a rapidly growing Midwestern city providing varied lifestyles at a moderate cost of living. Interested persons should send resume in confidence to: Management Recruiter.

ROSS LABORATORIES
Division of Abbott Laboratories, USA
625 CLEVELAND AVENUE
COLUMBUS, OHIO 43216

An Equal Opportunity Employer M/F
Postdoctoral Research Associates

The Agricultural Research Service as the principal scientific research agency of USDA, conducts research to solve technical food and agricultural problems of broad scope and high national priority. The agency's work is carried out under six specific research objectives—conservation of national resources, crop production and protection, animal production and protection, human nutrition, postharvest research, and integration of management systems. Overall aim of ARS research is to ensure the continuation of an adequate supply of food and fiber of high quality to meet the needs of American people and for export.

ARS is currently recruiting for 100 postdoctoral positions throughout the country. Opportunities exist in many research areas, including:

- Human Nutrition
- Genetics
- Immunology
- Virology
- Biochemistry
- Chemistry
- Microbiology
- Animal Science
- Entomology
- Plant Physiology
- Plant Pathology
- Agronomy
- Soil Science
- Engineering

Successful candidates will be hired under excepted appointments up to 2 years in duration. Salary for these GS-11/12 positions ($28,852 to $34,580) will be based on qualifications and experience.

For written descriptions of positions and application procedures, write to:

N.L. Bakes
Personnel Division (S)
USDA/ARS/ARC-W
Bldg. 003, Room 101
Beltsville, MD 20705
or call:
Ms. Kim Carpenter
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ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE CELL CULTURE BIOASSAY

Amgen, an emerging leader in the development of human pharmaceutical products through applied biotechnology, has an immediate opportunity for a BS or MS level scientist to join our innovative group providing cell culture and assay support for ongoing research efforts. Responsibilities will include maintenance of a variety of tissue culture lines and performance of in-vitro bioassays related to our research efforts in hematopoiesis, wound healing and other project areas.

Qualified candidates for this position must have a BS or MS in Cell Biology or a related discipline and a minimum of two years' experience in the handling of suspension and adherent cell lines. Familiarity with hematopoietic cell proliferation assays is highly desirable.

Amgen offers an excellent compensation and benefits package as well as the unique opportunity to contribute to challenging research programs on the cutting edge of biotechnology. If you have the necessary qualifications and would like to be a part of an organization that maintains a commitment to the development of significant health care products through scientific excellence, send a resume, in confidence, to:

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Recruitment, Dept. #386
1900 Oak Terrace Lane
Thousand Oaks
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Research Assistant/Associate
Molecular Cell Biology

Genentech, Inc., a leader in the field of biotechnology, has a Research Assistant/Associate position available in our Medicinal and Biomolecular Chemistry Department.

The individual will be involved in the study of structure function relations of cell surface receptors with their ligands, using cell and molecular biology, as well as biochemical approaches. Requirements include a BS/MS in Biochemistry/Molecular Biology or related field, with a minimum of 2 years’ experience in cell and molecular biology techniques.

Genentech, Inc. offers an excellent salary and benefits package coupled with the opportunity to make a significant contribution to our organization. For consideration, please send your resume to: Yvonne Davino, Human Resources Dept. SB, Genentech, Inc., 460 Point San Bruno Blvd., South San Francisco, CA 94080. An equal opportunity employer. Women and minorities are encouraged to apply.

Genentech, Inc.
RESEARCH ASSOCIATE POSITION—Penn State. Position available for a laboratory assistant or technician who will conduct experiments on the mechanisms of action of neuromodulatory agents and the interactions of these agents with the immune system. Ph.D. or M.D. in immunology. Salary range: $22,000 to $26,000 per year. Applicants must have experience in at least two of the following areas: endocrinology, immunology, and/or pharmacology. The ideal candidate will have demonstrated ability to conduct research independently and prepare manuscripts for publication. Salary range: $26,000. Applications should be submitted to Dr. H. W. Hoekstra, Director, Molecular Neuroendocrinology Laboratory, PO Box 401 Althouse, Molecular and Cell Biology, The Pennsylvania State University, University Park, PA 16802.

RESEARCH INSTRUCTOR—Please apply and one sample familial and individual experience. Ph.D. in immunology and knowledge of endocrinology required. A minimum of 2 years of postdoctoral experience is required. Salary range: $32,000 to $36,000 per year. Standard university benefits package. To apply, send curriculum vitae and names of three references to: Dr. H. W. Hoekstra, Molecular and Cell Biology, The Pennsylvania State University, University Park, PA 16802. An Affirmative Action/Equal Opportunity Employer. Women and minorities encouraged to apply.

RESEARCH POSITION—The Monell Chemical Senses Center seeks individuals with a background in biochemistry/physiology for multidisciplinary studies of the chemical senses, nutrition, and appetite. Research areas include basic mechanisms and clinical aspects of diet selection, food and fluid intake, learned flavor preferences, and cephalic phase digestive reflexes. Applicants may be made at the postdoctoral or assistant professor level, depending on experience and qualifications. Send curriculum vitae, names of three references, and statement of research interests and objectives to: Director, Monell Chemical Senses Center, 3500 Market Street, Philadelphia, PA 19104.

RISK ASSESSMENT IN SUPERFUND
The Office of Emergency and Remedial Response (Superfund), U.S. Environmental Protection Agency (EPA), Washington, D.C., invites professionals currently employed in a governmental or university, or other organization and experienced in health- or environmental-technology assessment to apply for temporary employment in Washington, D.C. Opportunity to develop risk assessment guidance for Superfund, provide technical support and analysis to improve site-specific risk assessments, develop quality assurance program, postgraduate research, and testing agenda. Employment under Intergovernmental Personnel Act for 6 months to 2 years; experienced gained benefits home institution upon return. Reply to: David A. Burns, Chemists Toxicology Branch (OS-230), U.S. EPA, Washington, DC 20460; telephone: 202-475-9486.

Beth Israel Hospital—Harvard Medical School solicits applications for a STAFF RESEARCH POSITION in the Department of Pathology in the field of blood clotting disorders. Candidates should have well-trained cell biologists with an M.D. or Ph.D. degree. They should have experience in vascular organ culture and expertise in the molecular biology and cloning of platelets. Evidence of published research productivity is required. The individual selected will need to obtain independent research funding. Harvard Medical School at the level of instructor or assistant professor. Please send curriculum vitae and the names of three references to: Dr. Harold F. Dvorak, Director, Cell Biology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 0!215. We are an Equal Opportunity Employer.

Columbia University/Hughes Medical Institute Protein Chemistry Laboratory has two openings: (i) Amino acid analysis TECHNICIAN. B.S. in chemistry or equivalent required. (ii) PEPTIDE CHEMIST. Excellent experience in peptide synthesis and purification. M.S. or B.S. in chemistry; experience preferred. Both will assist in DNA synthesis and sequencing projects. Excellent opportunities for personal development, salary, excellent benefits. Equal Opportunity Employer. Send résumé to: Box 34, SCIENCE.

SUPERVISORY NEUROSCIENTIST—GM-14
To serve as Chief of the Neuromodulation Branch, Pathophysiology Division, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Responsibilities include supervising and managing research on the mechanisms of action of neuromodulatory agents and the interactions of these agents with the immune system. Ph.D. or M.D. in one of the basic animal sciences, physiology, pharmacology, psychology, or a closely related discipline. Salary range: $37,153 to $41,303 per annum. U.S. citizenship is required and the applicant must be able to obtain a security clearance. Résumés must be received by 15 April 1989 and sent to: Commander, U.S. Army Aberdeen Proving Ground Support Activity, Attention: STEAP-CR-D (Ms. Davis), Aberdeen Proving Ground, MD 21005–5001. Equal Opportunity Employer.

SUPERVISORY NEUROSCIENTIST—GM-15
To serve as Chief of the Biochemical Pharmacology Branch, Pathophysiology Division, U.S. Army Medical Research Institute of Chemical Defense, Aberdeen Proving Ground, Maryland. Responsibilities include supervising and managing research on the mechanisms of action of neuromodulatory agents and the interactions of these agents with the immune system. Ph.D. or M.D. in one of the basic animal sciences, physiology, pharmacology, psychology, or a closely related discipline. Salary range: $37,153 to $41,303 per annum. U.S. citizenship is required and the applicant must be able to obtain a security clearance. Résumés must be received by 15 April 1989 and sent to: Commander, U.S. Army Aberdeen Proving Ground Support Activity, Attention: STEAP-PD-7 (Ms. Davis), Aberdeen Proving Ground, MD 21005–5001. Equal Opportunity Employer.
ENVIRONMENTAL RESEARCH CHEMIST

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As a member of a multidisciplinary team, your responsibilities will include theoretical analyses of the behavior of chemicals in the environment. You will assist in designing, analyzing and interpreting radionuclide solubility experiments that emphasize computer modeling. You will also be expected to make presentations, prepare reports and peer-review publications.

Requirements include proven research experience in applying computer techniques to solving problems involving chemical interaction in aqueous systems. You must be familiar with the use of models such as EQ3/6, MINEQL, PHREEQE, WATEQ or equivalent codes. We require experience and training in geochemistry, soil chemistry and/or aqueous chemistry as well as demonstrated experience leading research in the subject area. Effective verbal/written communication skills and DOE Q clearance or eligibility are imperative. A PhD in physical chemistry, geochemistry or soil chemistry, or equivalent combination of relevant education and experience is necessary. Knowledge of radionuclide behavior is preferred.

As a leading R&D institution, we provide an attractive salary and benefits package and a challenging work environment. Interested candidates should forward a resume and salary history to: Leona Thorpe (MS P280), Personnel Services Division 90034-J, Los Alamos National Laboratory, Los Alamos, NM 87545.

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Tenure-track position for Ph.D./MD to lead research targeted towards improving the virus safety of blood and blood products. Background in Virology or Cell Biology useful. Good analytical and communication skills required.

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Ph.D./MD in Protein Biochemistry to conduct research leading to new therapeutic products from blood and other biological sources. Unique opportunity to work with multi-disciplinary R&D team in environment which encourages grants and scientific publications. Experience with plasma proteins helpful.

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POSITIONS OPEN

TENURE-TRACK POSITION in physiology for assistant professor, tenure-track candidates are expected to develop independent research program and teach graduate and professional courses. Preference given to candidates with expertise in vertebrate evolution, developmental biology, or cardiovascular physiology. Individuals with expertise in other areas of physiology are encouraged to apply. Submit curriculum vitae to: Dr. C. E. Clark, Department of Physiology, College of Veterinary Medicine, Auburn University, AL 36849 by 30 June 1989. An Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

VERTEBRATE BIOLOGIST

Assistant professor, tenure-track position, beginning fall 1989. Must have Ph.D. and demonstrated commitment to both teaching and research. Postdoctoral training desirable. The successful candidate will be expected to teach one or more of the following courses: Comparative vertebrate anatomy, embryology/developmental biology, vertebrate zoology, mammalogy, and ornithology; to conduct independently funded research; and to direct graduate student research. Individuals with training in functional and/or evolutionary zoology and use of computers are encouraged to apply. Send letter of application, curriculum vitae, transcripts, copies of recent publications, a brief statement of professional goals, and at least three letters of reference to: Daniel H. Stern, Chairperson, Department of Biology, 612 Biological Sciences Building, University of Missouri–Kansas City, 5100 Rockhill Road, Kansas City, MO 64110; Telephone: 816-276-1388; within the State of Missouri. 30 March 1989. University of Missouri is an Affirmative Action/Equal Opportunity Employer.

ASSISTANTSHIPS

BIOLOGY GRADUATE ASSISTANTSHIPS

Ph.D. program characterized by close faculty-student interaction has assistantships available for qualified students. All students supported with 12-month stipends of approximately $9,900, plus tuition waiver and dependency allowances. Active research programs in cell and developmental biology, developmental genetics, evolution and quantitative genetics, comparative physiology, and neurophysiology and behavior. Contact: Peggy Miano, Graduate Admissions, Department of Biology, Wesleyan University, Middletown, CT 06457. Telephone: 203-327-9411, X2656.

CONFERENCES

TRANSGENIC MICE AND MUTANTS IN MHC RESEARCH

The Jackson Laboratory, Bar Harbor, Maine, 28–30 June 1989

Organized by Dr. Igor Bogorov, The Jackson Laboratory and Dr. Chella Davis, Mayo Clinic. Sessions: Expression and function of class I and class II MHC genes in transgenic mice; Mutant models of MHC antigen expression and function; Regulation of MHC gene expression; Transgenic models of disease; Both mouse and human MHC will be discussed. Contact: Linda Price, The Jackson Laboratory, Bar Harbor, ME 04609; Telephone: 207-288-3371.

GRADUATE TRAINING

GRADUATE TRAINING IN BIOBIOCHEMISTRY AND IMMUNOLOGY

A new program at the University of North Carolina is designed to provide training for graduate students in biochemistry and immunology. The program is intended to prepare students for careers in academic research or industry. Areas of expertise include cell biology, molecular virology, viral and bacterial pathogenesis, analytical microbiology, and immunology. For more information contact: Dr. Alvin Fox, Graduate Director, Department of Microbiology and Immunology, University of North Carolina School of Medicine, Chapel Hill, NC 27514.

LECTURESHIP

UNIVERSITY OF OXFORD UNDERTAKES LECTURESHIP IN METAMORPHIC PETROLOGY IN ASSOCIATION WITH ST. CROSS COLLEGE

Applications are invited for a lecturership, to be filled from 1 October 1989 or as soon as possible thereafter, within the field of metamorphic petrology. The lecturer will be responsible for teaching metamorphic petrology, and may have responsibilities in some other aspect of the subject. Stipend will be according to age on the scale £9,865 to £20,615 per annum, together with membership of the University's Superannuation Scheme. The lecturership, open to men and women, will be held in conjunction with an official Fellowship at St. Cross College. Further particulars may be obtained from: Professor J. F. D. Mottram, Department of Earth Sciences, Parks Road, Oxford OX1 3PR to whom application (four copies, or one in the case of overseas applicants) including curriculum vitae, a statement of experience and research interests, a list of publications, and the names and addresses of three referees should be sent so as to arrive before 30 March 1989.

SYMPOSIUM

USC–AMGEN ONE-DAY SYMPOSIUM

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10 April 1989

University of Southern California School of Pharmacy, Mayer Auditorium, 2025 Zonal Avenue, Los Angeles, CA 90033

Information: Dr. Peter Jones 213-224-6503

FELLOWSHIPS

INTERNATIONAL CANCER RESEARCH FELLOWSHIP

The Hayashibara Mutual Aid Fund, a nonprofit-making organization within the Hayashibara Group, announces a fellowship program. Two awards will be made annually. Fellowship will be taken up at the newly opened Fujisaki Cell Center, which is devoted to basic and applied research related to the problems in human cancer. The fellowship is normally made for 1 year and renewable for up to 5 years. The fellowship will be expected to commence within 6 months of the announcement of the award. The fellowship is for high quality research work in one of the three categories described below:

1. Fundamental Leukemia-Lymphoma Research
2. Cytokine-Lymphocyte Interactions
3. Hematopoietic Cell Cultures

Qualified person, who has a Ph.D., an M.D., or equivalent qualifications, will be awarded on merit to suitably qualified research proposal and experiences. Additional information and application forms will be obtained from: Jun Minowada, M.D., Director, Fujisaki Cell Center, 675-1, Fujisaki, Okayama 703, Japan.

POSTDOCTORAL FELLOWSHIP, July 1989—Pathologist or other biomedical scientist (M.D., D.D.S., D.V.M., Ph.D.) for 1- or 2-year program at the Armed Forces Institute of Pathology beginning July 1990. Excellent research training and educational opportunity postition; women and minorities encouraged. Send curriculum vitae and brief statements of interests and qualifications to: Box 33, SCIENCE, by 1 September 1989.

GRADUATE FELLOWSHIPS IN BIOCHEMISTRY, ANATOMY OR PHYSIOLOGY are available for research studies in the Regulatory Peptide Center of the Department of Biochemistry, Creighton University, Omaha, NE 68178, starting in the fall of 1989. The applicant should state the discipline of interest when requesting further information from the Department. Phi Lambda Upsilon is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

PREDOCTORAL FELLOWSHIPS IN MOLECULAR, CELLULAR, AND ORGAN PHYSIOLOGY OF THE CARDIOVASCULAR SYSTEM

The Department of Medical Physiology at Texas A&M University offers the Ph.D. degree in medical sciences. Faculty research may include studies of angiogenesis, microcirculation, vascular cell biology, membrane biophysics, instrumentation, hypertension, diabetes, blood volume control, systems modeling, fluid exchange and exercise. Faculty research programs are well funded and the department offers above average stipends.

Contact: Dr. Gerald M. Burger, College of Medicine, Department of Medical Physiology, Texas A&M University, College Station, TX 77843–1114. Telephone: 409-845-7491. Texas A&M is an Equal Opportunity/Affirmative Action Employer.

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