Personnel Placement

SCIENCE publishes each Friday, except the last Friday of the year. Advertising is accepted only in writing; no telephone orders will be accepted. All copy must be received by 5 p.m. on the preceding Monday. The deadline for deadline for copy is Thursday, 10 a.m., two weeks prior to issue date (mailed on issue date). For deadlines for display advertising, please contact Scherago Associates.

LINE CLASSIFIED ADVERTISING DEADLINES: Thursday, 10 a.m., two weeks prior to issue date (mailed on issue date). For deadlines for display advertising, please contact Scherago Associates.

POSITIONS WANTED: 40g 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): $38.00 per line; $390.00 minimum, per week. Minimum charge covers one in a single column; one inch equals 10 lines of 52 characters and spaces per line. No charge for use of box number. No agency commission will be charged. No cash. Sent. Prepayment required for all foreign ads. Purchase orders and/or checks payable in U.S. dollars submitted to it for all other advertising.

To ESTIMATE ad cost: Structure ads copy on a separate page, on lines of 52 characters and spaces per line. Each line of heading, and/or extra lines space, and all partial lines (including centered reply information) are counted as full lines. Ad titles listed in the text are printed in bold face and are only $32 characters per line. IN ESTIMATING the cost, multiply total lines $38.00. THEN calculate cost of ad. (This is an approximate cost ONLY. Allow for variation between estimated lines and actual typeset lines and the resulting final cost. The advertiser must allow for some degree of flexibility and/or adjustment.)

CANCELLATION POLICY: NOTE: Ad cancellations 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 1/6 page in size (59 lines) to:

SCIENCE Classified Advertising
1333 E Street, NW, Room 940
Washington, DC 20005

Telephone: 202-332-6555

Send copy for Fractional Display ads 1/6 page and larger, and all Marketplace ads to:

Scherago Associates, Inc.
2516 Beach Drive, NW
New York, NY 10065

Telephone: 312-331-2665

Blind ad replies should be addressed as follows: (Box given number) SCIENCE
1333 E Street, NW
Washington, DC 20005

ACADEMIC PATHOLOGIST

We are seeking an academic pathologist with experience in immunopathology, or a related field such as immunocytochemical diagnosis, immunohistochemistry, cell diagnostic markers, etc. The applicant should have an M.D., degree, be experienced in teaching, be capable of serving in diagnostic anatomical pathology and be a graduate of an LCME-approved pathology residency program. Preference will be given to candidates with research capability, and, preferably, extramural research funds. Salary is commensurate with experience. Mail curriculum vitae to: H. Clarke Anderson, M.D., Department of Pathology and Oncology, University of Kansas Medical Center, Kansas City, KS 66103.

ANDROLOGIST

The Division of Reproductive Endocrinology in the Department of Obstetrics/Gynecology at the University of Health Science Center, Syracuse, New York is seeking a qualified androgologist. The applicant should have experience in tissue culture, semen analysis, sperm antibody testing, sperm washing techniques, and In vitro fertilization. Previous experience in IVF is preferred but is not necessary. The applicant will be responsible for the daily functioning of the andrology laboratory, the development of research protocols in that field. Please forward your curriculum vitae to: Michael Baggish, M.D., Chairman, or Shavly Badawy, M.D., Director, Division of Reproductive Endocrinology, Department of Obstetrics/Gynecology, Health Science Center, Syracuse, NY 13210.

ASSISTANT PROFESSOR, NORTHWESTERN UNIVERSITY DEPARTMENT OF MICROBIOLOGY-IMMUNOLOGY

Applications are invited for a tenure-track position at the rank of assistant professor in the Department of Microbiology-Immunology, Northwestern University Medical and Dental Schools. The department is undergoing substantial growth in research, teaching, and faculty positions as part of Northwestern University's commitment to enhance excellence in the basic biomedical sciences. Applicants are being sought whose research interests complement ongoing programs in molecular virology, immunology, and microbial pathogenesis. Of particular interest are research on immunopathogenicity or microbial pathogenesis in immunocompromised systems, or research on receptor biology as it pertains to the function of the immune system or to microbe-cell interactions. Primary criteria for appointment will be previous post-doctoral experience with the tools and techniques of modern molecular biology, demonstrated research ability, potential for developing an internationally recognized research program, and commitment to effective teaching at the postgraduate level. Please send curriculum vitae, summary of research interests, and the names of three references to: Search Committee Chairman, Department of Microbiology-Immunology, Northwestern University Medical School, 303 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Affirmative Action/Equal Opportunity Employer.


PERSONNEL PLACEMENT 1555
ASSISTANT PROFESSOR

The Department of Pharmacology and the Program in Biological Sciences of the School of Medicine, University of California, Los Angeles, is opening a tenure-track position at the assistant professor level. The search is not confined to candidates in a single area of research; rather, we seek an investigator who works in an area broadly relevant to pharmacology—e.g., signal transduction, protein structure, neurobiology, cell biology, or molecular biology. Successful candidates should also be able to teach pharmacology to professional and graduate students. Letters of application should be accompanied by curriculum vitae and bibliography, a narrative description of proposed research, published papers, and the names, addresses, and telephone numbers of three references. Please send all materials by 30 September 1988 to: Chairman, Search Committee, Department of Pharmacology, UCLA School of Medicine, 10830 Olive View Drive, Los Angeles, CA 90095-1611.

ASSISTANT PROFESSOR—The Department of Chemistry and Biochemistry and the Center for Agricultural Biotechnology of the University of Maryland, College Park, is opening a tenured or tenured-tenure-track joint assistant professorship. The successful candidate will be expected to initiate a competitive research program in the area of plant biochemistry and, to establish an interface between the Department of Chemistry and the Center. Investigators whose research interests include the biochemical and/or enzymological aspects of plant biochemistry are especially encouraged to apply. The appointee will have modern laboratory space in chemistry and biochemistry, a one-half teaching load and full access to departmental facilities. The appointee must hold a Ph.D. in biochemistry or a related field and have postdoctoral experience. A resume, a synopsis of research interests, and three letters of recommendation should be sent by 15 August 1988 to: John W. Konarz, Center for Agricultural Biotechnology, University of Maryland, College Park, MD 20742. The University of Maryland is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, tenure-track, beginning 1 January 1989. Ph.D. in biochemistry or molecular biology, commitment to liberal education, teaching in biology and chemistry departments at undergraduate and Masters' levels, development of research program interfacing biology and chemistry required. Submit resume, description of proposed research, and official transcripts to: Chairman, Biology Department, James Madison University, Harrisonburg, VA 22807, by 30 June 1988. Search will continue until position filled. The University is an Equal Opportunity/Affirmative Action Employer.

The Seattle Biomedical Research Institute (SBRI) invites applications for a permanent position at the STAFF ASSOCIATE level. This position is equivalent to an assistant or associate professor. SBRI is a small, non-profit institute dedicated to basic biomedical research in a cooperative, scientist-oriented environment. Interactions with other Seattle research institutions are encouraged. Current programs focus on basic molecular biology, immunology, and molecular and immunological parasitology. The successful candidate will establish an externally funded independent research program that is related to infectious diseases and that employs molecular and/or immunological approaches. Letters of support from the institute are available. Candidates interested in molecular pathogenesis of viral and bacterial diseases or in interactions between host and parasite are encouraged to apply. Applicants should send their curriculum vitae, a brief statement of proposed research, and names of three references by 1 July 1988 to: Dr. Kenneth Stuart, Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109-1651. Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR, PHARMACOLOGY/TOXICOLOGY: Two tenure-track positions are open for an outstanding cardiac or vascular pharmacologist. Applicants should send curriculum vitae, a brief statement of research plans, and three letters of reference to: K. E. Moore, Ph.D., Chairman, Department of Pharmacology and Toxicology, Michigan State University, East Lansing, MI 48824. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR AND POSTDOCTORAL POSITIONS. Immediate opportunities to study the molecular genetics of autoimmune diseases in humans and appropriate animal models. Ongoing projects concern genomic organization and expression of autoimmune response, immune globulin and autoantibody regulation, molecular aspects of tolerance, and antigen-binding/presentation. Candidates should have a good background in immunology and molecular biology. Send curriculum vitae and three references to: Dr. Argyrios N. Theofilopoulos, Member, Immunology Department, Scripps Clinic and Research Foundation, 10608 Torrey Pines Road/IMM3, La Jolla, CA 92037.

ASSISTANT PROFESSOR OF PHARMACOLOGY

A tenure-track faculty position at assistant professor level is available in the Department of Pharmacology, University of California, Los Angeles (UCLA), for an individual with expertise in neuropharmacology and the ability to develop new projects or to develop courses in research methodology. Applicants should have significant experience in neuropharmacology and should be able to teach with enthusiasm and demonstrate effective interpersonal communication skills. A resume, a curriculum vitae, and letters of recommendation should be submitted to: Dr. Henry E. Kung, Chairman, Department of Pharmacology, UCLA School of Medicine, 10830 Olive View Drive, Los Angeles, CA 90095-1611. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, PHARMACOLOGY/TOXICOLOGY: This is a tenure-track position available at assistant professor level. The position with postdoctoral research experience is required. The appointee will be expected to develop a strong research program in addition to teaching and student advising responsibilities. A Ph.D. in pharmacology or a related field and postdoctoral experience in pharmacology/toxicology may apply, but persons whose research interests are in molecular biology and/or immunopharmacology are especially encouraged to apply. The department is well-equipped with basic research equipment and fully-equipped tissue/cell culture facilities are available. Applications including a detailed curriculum vitae, statement of future research direction, and three letters of reference should be sent to: Dr. Beth Hopkins, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, Jackson, MS 39216-4505. The University of Mississippi Medical Center is an Equal Opportunity Employer, M/F/H/V.

ASSISTANT/ASSOCIATE PROFESSOR, PHYSIOLOGY AND BIOPHYSICS: UNIVERSITY OF WASHINGTON

A tenure-track position is open for outstanding candidates with an interest in modern physiologic research that includes an investigational level in all areas of contemporary physiology. Applicants applying modern methods to study the autonomic nervous system (including development and signal transduction) or to the cardiovascular system and its components (such as the endothelium) are particularly encouraged. Candidates are expected to develop a strong independent research program and to teach effectively at the graduate level. Submit curriculum vitae, statement of research interests and goals, and names and addresses of three references by 15 October 1988 to: Wulfhard Almers, Chair of Search Committee, Physiology and Biophysics, SJ-40, University of Washington School of Medicine, Seattle, WA 98195. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

BIOLOGY/HEALTH SCIENCES: Tenure-track ASSISTANT/ASSOCIATE PROFESSOR. Fall 1988 or fall 1989. Salary commensurate with qualifications and experience. Ph.D., equivalent teaching, research, and a firm commitment to working with students required. Teach kinesiology, exercise physiology, nutrition, and courses related to gerontology. Send resume, three letters of reference, and evidence of scholarship and teaching to: Chair, Department of Biology/Health Sciences, Chapman College, Orange, CA 92666 by 15 July 1988. Affirmative Action Institution/Equal Opportunity Employer.

BIOLOGIST OR PHYSICAL OCEANOGRAPHER

The Harbor Branch Oceanographic Institution (HBOI) has recently opened a tenure-track position on the permanent Staff of the Division of Marine Sciences. Applicants should have 2 years of postdoctoral experience and at least one of the following areas of marine science: Microbial ecology, comparative animal physiolo-
POSITIONS OPEN

CHAIRPERSON, DEPARTMENT OF PHYSIOLOGY AND BIOPHYSICS: The University of Mississippi Medical Center invites nominations for the position of professor and chairperson of the Department of Physiology and Biophysics. Candidates should have extensive teaching experience and be established investigators with a record of scholarly contributions and participation in appropriate professional organizations. Candidates with administrative background are preferred. The Medical Center in Jackson is Mississippi’s only academic health center. There are four health professional schools on the campus—Schools of Medicine, Nursing, Health Related Professions and Dentistry; graduate programs in the medical sciences; and the 541-bed University Hospital, teaching hospital for all programs. The Department of Physiology and Biophysics has campuswide teaching responsibilities. The department is particularly noted for its research in cardiovascular, renal and endocrine physiology and in its quantitative approach to physiology, especially in the application of control systems analysis and computer simulation of physiological mechanisms. There are also active research programs in the areas of cellular, respiratory and neurophysiology. Nominations for the position should include the nominee’s name, curriculum vitae, and names and telephone numbers of three references, and should be addressed to: J. E. Ho, Ph.D., Chairman, Search Committee, c/o the Department of Pharmacology and Toxicology, the University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 37216—4505. Application deadline is 1 August 1988.

The Department of Pathology of the SUNY Health Science Center at Syracuse announces a position in the Division of Clinical Pathology as CO-DIRECTOR OF CYTOGENETICS at University Hospital. Applicant must meet the requirement for New York State Certification of Qualification as a Laboratory Director of Cytogenetics. Applications will be accepted through 1 July 1988. Submit a letter describing interest and experience in cytogenetics, curriculum vitae, and the names of three references to: Lawrence G. Gordon, M.D., Department of Pathology, SUNY Health Science Center, Syracuse, NY 13210. An Equal Opportunity/Affirmative Action Employer.

Senior tenure-track faculty appointment (full-time) in the Department of Psychiatry as DIRECTOR of the University of Michigan Substance Abuse Center. Excellence. Responsibilities include the coordination and monitoring of research efforts across university programs, facilitation of collaborative research relationships, integration of basic research efforts with clinical and teaching operations, strengthening existing resources and attracting new resources and talent, and the dissemination of information about university activities in substance abuse. Candidates must have documented track record in research, teaching, clinical leadership and administration; demonstrated ability to establish and carry out funded research; Medical Degree with Board Certification in Psychiatry or Doctoral Degree in Clinical Psychology from an accredited training program; eligible for licensure in Michigan. Send a letter of interest and curriculum vitae to: John F. Greden, M.D., Professor and Chairman, Department of Psychiatry, 82963 Clinical Faculty Office Building (Box 0704), 1500 East Medical Center Drive, Ann Arbor, MI 48109—0704. The University of Michigan is a Non-discriminatory/Affirmative Action Employer.

ELECTRON MICROSCOPIST

Johns Hopkins University Medical School seeks an experienced electron microscopist to supervise, maintain, and provide instruction in a new electron microscope core facility. Duties include maintaining and supervising the use of TEMs, SEM and associated equipment, electron microscopes and freeze-fracture apparatus; instructing and assisting both experienced and novice investigators with EM use and preparation methods; implementing an EM image analysis system; maintaining light microscopes and a new confocal fluorescence microscope. Rank and salary commensurate with experience. An established record of contributions and experience in microscopy is required. Send curriculum vitae and the names of three references to: EM Search Committee, Department of Cell Biology and Anatomy, Johns Hopkins Medical School, 725 North Wolfe Street, Baltimore, MD 21205.

Our Spirit Of Teamwork Fosters A Winning Attitude

American Cyanamid Company’s Agricultural Research Division has a long-standing and highly successful commitment to the discovery and development of products to improve worldwide crop and livestock production. We are growing rapidly and currently have opportunities at our laboratory and experimental farm complex ideally located near Princeton, New Jersey in the following:

Plant Molecular Biology/Pathology

Our expanding Plant Biotechnology program has openings for individuals at the BS, MS and PhD levels in the areas of plant pathology and molecular biology. Applicants should have experience in molecular pathology of fungal pathogens or host plant responses, plant transformation systems, gene isolation, and the analysis of gene expression in higher plants.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, forward your resume, including salary history and requirements, in confidence, to: Mary-Dell Chilton, CIBA-GEIGY Corporation, P.O. Box 12257, Research Triangle Park, NC 27717. We are an equal opportunity employer M/F/H/V.
DEVELOPMENTAL BIOLOGIST: The Department of Embryology of the Carnegie Institution of Washington seeks a Staff (Faculty) Member who will carry out independent research in some aspect of Developmental Biology. Our Department is part of a nonprofit research institution and is situated on the Johns Hopkins University Homewood campus. Applicants should send curriculum vitae, a statement of research interest, and three letters of recommendation addressed to: Director, Department of Embryology, Carnegie Institution of Washington, 115 West University Parkway, Baltimore, MD 21210. An Equal Opportunity/Affirmative Action Employer.

DIRECTOR, OFFICE OF RESEARCH SAFETY NORTHWESTERN UNIVERSITY

Northwestern University is seeking a Director for its Office of Research Safety, a centrally administered unit that has responsibilities on both the Chicago and Evanston campuses. The Office's duties encompass radiation safety, chemical, biological, and rDNA safety, and hazardous waste management. The Director is responsible for program planning and development as well as maintaining regulatory compliance with applicable state and federal regulations and university policies. Candidates should have a Ph.D. degree, or equivalent degree, in health physics, environmental health, chemistry, or related field, and at least 5 years of experience, including administration, in an environmental health program or office. The Director reports to the Vice President for Research and Dean of the Graduate School through the Director of Research Services. The position is available on 1 July 1989. The applicant should submit a résumé, including the names of at least three references, to: Search Committee, Research Services Administration, Northwestern University, 633 Clark Street, Evanston, IL 60208. Northwestern University is an Equal Opportunity Employer.

DIRECTOR, MOLECULAR AND CELLULAR BIOLOGY GRADUATE PROGRAM. University of Maryland, College Park. The University of Maryland is seeking a director for a newly formed inter-departmental graduate program in molecular and cellular biology. The director will:

• be a tenured full professor in one of the departments of the College of Life Sciences or the College of Agriculture, and be the program director.
• work closely with the chairmen of the departments involved in the program and report directly to the Dean of the Colleges of Life Sciences and Agriculture.
• report to the College Park in a University-wide molecular and cellular biology graduate program.

The individual selected for director should demonstrate significant sustained contributions to molecular and/or cellular biology as well as an ability to direct and lead a large inter-departmental program. The individual is expected to maintain his/her own active research program, teach appropriate courses in the program, and foster development of the program. Applicants for the position should send their curriculum vitae, a statement of research interests, and the names and addresses of at least three potential references addressed to: Dr. Arthur N. Popper, Chairman, Search Committee, Molecular and Cellular Biology Program, Department of Zoology, University of Maryland, College Park, MD 20742. Telephone: 301-454-3202.

Closing date is 17 October 1988, or until suitable applicant is found. An Equal Opportunity Employer/Affirmative Action.

ECOLOGICAL DATABASE ANALYST

Permanent position as database analyst and programmer for the Smithsonian Tropical Research Institute in the Republic of Panama, a bureau of the Smithsonian Institution. Duties include management and statistical analysis of several large databases on tropical forest ecology and related areas. Statistical programming experience required. Salary based on qualifications. Send curriculum vitae and three letters of recommendation to: Director, Smithsonian Tropical Research Institute, APO Miami 34002-0011. Deadline: 15 July 1988. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE POSITIONS

UNIVERSITY OF IOWA

Please contact the appropriate department to express your specific interest:

ANATOMY — Dr. Joe Dan Coulter, Professor and Head, Bowen Science Building.

ANESTHESIA — Dr. John H. Tinker, M.D., Professor and Head.

BIOCHEMISTRY — Dr. Alan G. Goodridge, Bowen Science Building.

BIOLOGY — Dr. John S. Strauss, M.D., Professor and Head; or Kenzo Sato, M.D., Associate Professor; Boyd Tower, General Hospital. A postdoctoral research associate for the study of electrophysiology of cultured cells.

INTERNAL MEDICINE — Openings available in all disciplines in the Internal Medicine Department, College of Medicine, University of Iowa. Contact Francois M. Abboud, M.D., Professor and Head; or David Goertler, Administrator. Phone (319) 256-2850.

MICROBIOLOGY — Dr. Irving P. Crawford, Professor and Head, Bowen Science Building.

NEUROLOGY — Postdoctoral associate positions are available in Cognitive Neuroscience, Neurophysiology, Neuroanatomy, Cerebrovascular Disease, Epilepsy, Sleep, and Neuromuscular Diseases. Antonio R. Damasio, M.D., Professor and Head, 2151 Roy Carver Pavilion.

PATHOLOGY — Dr. Richard G. Lynch, Professor and Chairman, 144 Medical Laboratories. Research activity in all areas of pathology.

PEDIATRICS — Dr. Frank H. Morris, Jr., Professor and Head.

PHARMACOLOGY — Dr. P. Michael Conn, Chairman and Head, Bowen Science Building. Openings available in all areas of pharmacology and toxicology.

PHYSIOLOGY & BIOPHYSICS — Positions available for cellular and molecular research in endocrinology, neurophysiology and membrane biology. Contact Robert E. Fellows, M.D., Ph.D., Professor and Head, 6-460 Bowen Science Building.

RADIONUCLIDE BIOLOGY — Dr. J. William Osborne, Professor and Director, 14 Medical Laboratories. Biological effects of radiation, environmental carcinogenesis and immunology, free radicals and cancer; cell proliferation in hematological and gastrointestinal systems; and radiation biochemistry of DNA base damage. Postdoctoral fellows also.

SURGERY — Dr. Robert J. Crelin, Professor and Head, Colliton Pavilion. Research opportunities in immunology, oncology, and organ transplantation.

UROLOGY — Dr. Robert D. Williams, Professor and Chairman, Carver Pavilion. A postdoctoral position is available for physicians interested in the study of immune modulation of genitourinary cancer cells in vivo and in animal models.

The College of Medicine, University of Iowa, Iowa City, Iowa 52242, is an Equal Opportunity/Affirmative Action Employer.

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REPRODUCTIVE

TOXICOLOGIST

Continued expansion at The Parke-Davis Pharmaceutical Research Division has created the need for a scientist in our Reproductive Toxicology section.

The duties of the successful candidate will be to assist in the design, execution and analysis of studies which focus on drug effect on fertility and reproduction as well as effect on the embryo/fetus, newborns and weanlings. The position will also involve supervisory responsibilities and drug discovery team participation.

Requirements for this position include a Ph.D. in Reproductive Biology or closely allied field, one to three years post-doc experience in reproductive toxicology, knowledge of GLPs, experience in maintenance of animal colonies and in animal care and handling.

This position is located at our research facilities in Ann Arbor, Michigan. The successful candidate will participate in dynamic drug discovery and development teams, and enjoy an excellent salary, benefits, professional development, living and working environment.

Qualified candidates send response, salary requirements and reference list in confidence to: Ms. M. Wellin, Warner-Lambert/Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105.

"Equal Opportunity In Action"
RESEARCH SCIENTISTS

HYBRITECH, located in the biotechnology center of San Diego, is a recognized leader in the application of monoclonal antibody technology to human health care needs. Several excellent career opportunities are available for innovative researchers to join our immunodiagnostic product development team, our newly-formed therapeutic protein engineering group, or our medicinal chemistry department.

CHEMISTS/BIOCHEMISTS - Responsibilities include participation in a multidisciplinary research group devoted to the design, feasibility testing and development of new generation immunoassay systems. Successful candidates will have a Ph.D. in Chemistry, Biochemistry or Physics with 1-5 years' postdoctoral experience in one or more of the following areas: solid-phase immunochemistry chemical modification of proteins, instrument applications of immunoassays or reaction kinetics. Creativity and the ability to effectively communicate and interact with fellow project scientists and engineers are essential. Supervisory experience is desirable.

MOLECULAR BIOLOGIST/PROTEIN CHEMIST
Responsibilities of this scientist will be to predict and model structural/functional changes in proteins and analyze these changes in vivo through site-directed mutagenesis studies. Essential to the success of this position are a high degree of self-motivation and effectiveness in an interdisciplinary group setting. Requirements include a Ph.D. degree and two years' postdoctoral experience in protein chemistry and molecular biology. Additional experience in protein engineering, macromolecular physical chemistry and computer modeling are highly desirable.

SYNTHETIC/RADIOCHEMIST - Responsibilities include the design and synthesis of novel metal chelating agents to be used to deliver radioisotopes for cancer diagnosis and therapy. This chemist will have an M.S. and 3-5 years' experience or a Ph.D. with up to two years' experience. Candidates must have synthetic experience and familiarity with TLC, HPLC, UV/VIS, IR, NMR and a willingness to work with radioisotopes. The ability to communicate clearly and to work as a multidisciplinary team member is essential.

HYBRITECH offers a stimulating work environment, competitive salaries and excellent company-paid benefits. Please send your resume to: Human Resources Department, Hybritech Incorporated, P.O. Box 269006, San Diego, CA 92126.

Opportunities In Biotechnology

Repligen Corporation is a leader in the application of Biotechnology to the health care and personal care markets. We are currently developing an AIDS vaccine and AIDS therapeutic products, products for the treatment of infectious diseases, cancer therapies and novel biocompatible personal care products. We take pride in the high caliber of our scientific staff and our collaborations with major research institutions and corporate partners in Europe and the United States. The expansion of our efforts has created the following opportunities:

Protein Chemistry

Research Scientist (A1003-4) Ph.D. with 2-4 years postdoctoral experience. We are seeking a creative individual to lead protein structure-function projects in the area of retroviral infection and immunomodulation. Experience with physical methods of protein characterization and computer modeling of protein structure is required. The successful candidate will have a proven record of creative research and accomplishment.

Process Development

Research Associate (R1006-2) B.S./M.S. in Biology Chemistry or related science with 1-3 years of experience in protein purification. HPLC experience preferred but not required.

Quality Assurance

Quality Control Analysts (R3001-2) B.S./M.S. in Biological Sciences. Two highly motivated individuals are needed, one with a background in microbiology, and the other in immunology. Experience with ELISAS, HPLC, or in a QC lab is a plus.

Bio-Organic Chemistry

Synthetic Organic Chemist (A1007-2) B.S./M.S. in Organic Chemistry. The successful candidate will have demonstrated skills in the synthesis of bio-organic molecules and/or polymers. Biological background is a plus.

Repligen Corporation offers a competitive salary, excellent benefits and equity participation. Please submit a cover letter, resume and references to Barbara Fleming, Recruiter, Repligen Corporation, One Kendall Square, Bldg. 700, Cambridge, MA 02139. (Please refer to job code when applying).

An Equal Opportunity Employer.
Cellular Immunologist
M.D. or Ph.D. wanted to join immunology group studying human autoimmunity. Position is full time research at junior staff level. Experience with cell sorting, B cell closing and B cell phenotyping required.

Molecular Biologist
M.D. or Ph.D. wanted to establish molecular genetics laboratory with immunology group studying human autoimmunity. Specific interest in the study of immunoglobulin genes required. Position is full time research at junior staff level.

For confidential consideration, please submit resume to:
Vincent Agnello, M.D.
Department of Laboratory Medicine
Lahey Clinic Medical Center
41 Mall Road
Burlington, MA 01805

An equal opportunity employer

ORGANON TEKNIKA CORPORATION is a leader in biomedical research and application. Our research and product development efforts pioneer new advances in the development of diagnostic and therapeutic products. Our continued growth creates an immediate opportunity for a

PROJECT LEADER
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You will serve as scientific leader of research projects leading to novel and state-of-the-art blood banking reagents and technologies. You will plan, direct, and conduct all technical activities required to accomplished project goals.

The successful candidate will have a Ph.D. in immunology and at least five years experience conducting research in serology, including cell surface antigens. Experience in medical diagnostics and blood banking technologies and reagents is preferred.

ORGANON TEKNIKA CORPORATION offers a competitive compensation package which includes dental insurance and an attractive 401(K) Savings Program. Qualified applicants please send resume and salary history to:

Human Resources Department

ORGANON TEKNIKA

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An Equal Opportunity Employer M/F/H/V — (No Agency Referral or Phone Calls Please)

Biomedical Mass Spectrometry

The Department of Drug Metabolism of Smith Kline & French Laboratories, located in suburban Philadelphia, PA, is seeking qualified applicants to join a collaborative and expanding Bioanalytical Research Group. The successful candidate will: operate and maintain a triple stage quadrupole mass spectrometer dedicated to thermospray LC/MS analysis of drug metabolites, interpret and report mass spectral data, participate in metabolite isolation and characterization studies, and participate in basic research programs in drug development.

Candidate qualifications will include:
- B.S. or M.S. in Chemistry, Analytical Chemistry or related area plus 1-3 years experience in analytical mass spectrometry
- Demonstrated experience with the daily operation and maintenance of quadrupole mass spectrometers. Experience with LC/MS and LC/MS analysis of drug metabolites in biological fluids and interpretation of mass spectral data are preferred.
- Knowledge of chemical pathways of biotransformation of xenobiotics and isolation of metabolites by HPLC methods desirable.
- Proven research ability as evidenced by scientific publications preferred.
- Excellent communication and interpersonal skills required.

We offer an excellent compensation, benefits and relocation package as well as opportunities for personal and professional growth. For confidential consideration, please forward your resume and the names of three references to Ms. Angela Varrichio, Associate Employment Administrator, V0033, SK&F Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an equal opportunity employer, M/F/H/V.

ORGANON TEKNIKA CORPORATION

An equal opportunity employer M/F/H/V

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Opportunities In Drug Delivery

The Department of Drug Delivery at Eastman Pharmaceuticals, a new division of Eastman Kodak Company, is conducting research directed toward developing parenteral polymeric drug delivery systems and orally active drugs including peptides. Several positions are available for motivated and highly qualified scientists with the abilities to make significant contributions to the research efforts.

PARENTERAL DRUG DELIVERY, POLYMER-PROTEIN INTERACTIONS

Positions involve: Quantifying and kinetically characterizing the adsorption of proteins onto polymeric nanoparticles; determining the conformational orientation of adsorbed proteins; identifying polymer surface characteristics responsible for adsorbing proteins and developing polymers that do not adsorb proteins; and developing methods to covalently link proteins to polymer surfaces.

SENIOR RESEARCH SCIENTIST - Requires a Ph.D. in Polymer Sciences or Protein Chemistry or equivalent with 1-5 years postdoctoral experience in protein/biomembrane/polymer interactions; experience with techniques for the isolation and identification of proteins, spectroscopic techniques and their application for studying membrane interactions and characterization of adsorption phenomena is essential; scientific publications demonstrating innovative approaches to the study of surface interactions are required. (When responding to this advertisement refer to Position A.)

RESEARCH SCIENTIST - Requires a BS or MS in Biochemistry or equivalent with 3-5 years experience in the isolation and identification of proteins, experience with chromatographic techniques is required; experience with protein-polymer interaction studies, adsorption phenomena and photon correlation spectroscopy is desirable. (When responding to this advertisement refer to Position B.)

PARENTERAL DRUG DELIVERY, IN VITRO MODELING

Positions involve: Establishing and validating in vitro methods to study GI tract transepithelial transport, digestion and metabolism of drugs; characterizing the luminal and brush border enzyme systems limiting availability of drugs; identifying optimum sites in the GI tract for delivery of drugs; and developing approaches to enhance the bioavailability of peptides.

SENIOR RESEARCH SCIENTIST - Requires a Ph.D. in Biochemistry or Biology or equivalent with 1-5 years postdoctoral experience in in vitro cell modeling of disease states; experience with isolation and studies with macrophages and neutrophils, cell membrane transport phenomena and biomembrane interactions is essential; experience characterizing the biodegradation/bioerosion of polymeric microparticulates in vitro is desirable; scientific publications demonstrating innovative approaches to studying the uptake of materials by cell are required. (When responding to this advertisement refer to Position C.)

RESEARCH SCIENTIST - Requires a BS or MS in Biochemistry or equivalent with 3-5 years experience in tissue and cell culture; experience with isolation and studies with macrophages and neutrophils, and biomembrane-polymer interactions is desirable. (When responding to this advertisement refer to Position D)

ORAL DELIVERY, IN VITRO MODELING

Positions involve: establishing and validating in vitro methods to study GI tract transepithelial transport, digestion and metabolism of drugs; characterizing the luminal and brush border enzyme systems limiting availability of drugs; identifying optimum sites in the GI tract for delivery of drugs; and developing approaches to enhance the bioavailability of peptides.

SENIOR RESEARCH SCIENTIST - Requires a Ph.D. in Physiology or Pharmaceutics or equivalent, with 1-5 years post doctoral experience in the transport of molecules across isolated epithelial tissue; experience in the isolation and identification of peptides, drugs and their metabolites, transport phenomena and membrane structure and enzyme kinetics is essential; scientific publications that demonstrate innovative approaches to studying the transport of materials across membranes are required. (When responding to this advertisement refer to Position E.)

The positions offer competitive salaries and a full range of benefits together with outstanding opportunities for personal and professional growth. For confidential consideration please send your resume with salary history/requirements and the names of three references to Personnel Relations, Department PDDD, Eastman Pharmaceuticals, 9 Great Valley Parkway, Great Valley, PA 19355. We are an equal opportunity employer M/F/H/V.

Eastman Pharmaceuticals
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**POSITIONS OPEN**

**EDITOR (CHEMISTRY/MATH)**

Chicago-based multi-national publishing company seeks experienced editor to review, evaluate, and edit articles in the fields of chemistry and related sciences and mathematics. The successful candidate will have a college degree in chemistry, or in mathematics with a strong chemistry background, and a minimum of 2 years of editing experience, preferable with reference or academic publications.

We offer a competitive compensation and benefits package. Please forward your résumé and salary history in confidence to: Box 96, SCIENCE.

**ELECTRON MICROSCOPIST**

**SENIOR RESEARCH SPECIALIST**

Howard Hughes Medical Institute

Department of Biochemistry

University of California, Berkeley (UCB)

A qualified electron microscopist is sought for a long-term senior research specialist position, available immediately, to work in conjunction with our laboratory's studies on the molecular genetics of neuronal development in the embryo of the fruit fly Drosophila melanogaster. Opportunity to use EM in collaboration with other laboratory members studying the mechanisms controlling cell fate and cell recognition during neuronal development. Qualified candidates should have extensive experience with ultrastructural studies and be comfortable in the preparation of serial section electron micrographs and/or immuno-EM. Salary based upon experience. Send letter of interest, curriculum vitae, and names of three references to: Professor Corey S. Goodman HHMI Investigator Department of Biochemistry University of California, Berkeley, CA 94720. HHMI and U.C.B. are Equal Opportunity/Affirmative Action Employers.

**BROWN UNIVERSITY**

**EVOLUTIONARY MORPHOLOGIST**

The Division of Biology and Medicine plans to make a senior appointment (associate professor or professor), to take effect for the 1989 to 1990 academic year. The appointee is expected to assume leadership in teaching anatomy to medical students in the Program in Medicine, establish an externally supported research program in vertebrate evolutionary morphology at the organismal level, and serve as a member of the Graduate Program in Ecology and Evolutionary Biology. The appointee will also lead the search to fill two junior faculty positions. Responsibilities include organizing and teaching the course in human anatomy, teaching a course in a specialty area, and academic advising of students. Opportunities exist for interaction with programs in biomechanics, applied mathematics, paleontology, and a wide range of biological and clinical areas. Applicants should submit a resume including teaching and research experience, plans for teaching medical anatomy, future research plans, a list of publications and representative reprints, and arrange to have three letters of reference sent, all to be received by 15 October 1988, to: Dean Frank G. Rothman, Division of Biology and Medicine, Brown University, Providence, RI 02912. An Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION IN MICROBIOLOGY**

The Institute of Microbiology, at the Hebrew University Medical School, is currently recruiting individuals with teaching and research expertise in either of the two areas:

(a) Medical Bacteriology

(b) Microbial Physiology

Preference will be given to candidates with research interests directed toward basic molecular mechanisms in their field of specialization.

The positions are tenure-track appointments at any rank.

Interested individuals should send curriculum vitae including a brief description of research experience and plans, and a list of references, before 1 December 1988, to: Ms. Ditza Gordon, Secretary of Search Committee, Institute of Microbiology, The Hebrew University, H. H. Hoffstree Medical School, P.O.B. 1179, Jerusalem, 91010, Israel.

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**Division of Oncology, Dept. Research University Hospital, Basle, Switzerland**

**POSTDOCTORAL POSITION**

Available for a biochemist. Applicants with experience in molecular immunology are invited to join a research group investigating the cellular interaction of macrophages with tumor cells in vitro and ex vivo. The project is concerned with the isolation, structural and functional analysis of macrophage membrane glycoproteins.

The post is available as soon as possible for a period of up to three years.

Applications including a curriculum vitae and publication list should be sent to: PD Dr. R. Obrit, Division of Oncology, Dept. of Internal Medicine, Kantonsspital, 4031 Basel, Switzerland.

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**Genelabs, a progressive biotechnology company in the San Francisco Bay Area, has the following opportunity:**

**MANAGER, PROTEIN BIOCHEMISTRY**

A Ph.D. in biochemistry or a related scientific discipline with 5-6 years research experience, some in an industrial setting, plus 2-3 of those years managing or supervising fellow scientists will qualify you to lead a group of biochemists/protein chemists at Genelabs. You will also interact closely with scientists in pharmaceutical development.

The ideal candidate will have hands-on experience in protein or peptide purification and primary structural analysis and be current with modern techniques in protein biochemistry and analytical methods. Excellent oral and written communication skills and experience in an entrepreneurial environment are definitely desirable.

Our work environment is exceptional in our expanding facilities located in the Seaport Centre on the San Francisco Peninsula. Please forward CV and names of 3 references in confidence to: GENELABS INCORPORATED, 505 Penobscot Dr., Redwood City, CA 94063. Attn: Human Resources. EOE.

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**SCIENTISTS**

If you're ready to make a lasting contribution, build a career with Program Resources, Inc. at the National Cancer Institute's Frederick Cancer Research Center. Right now, we have opportunities for researchers experienced in molecular biology and x-ray crystallography to support ongoing studies on protein-DNA interactions.

Using chemically synthesized DNA, you will survey crystallization conditions; isolate repressor-operator or transcription-activator DNA co-crystals suitable for x-ray diffraction analysis; and collect and analyze data by crystallographic methods to obtain structure of protein-DNA complex at high resolution. By site directed mutagenesis will mutate a repressor or transcription-activator, and study their interactions with DNA using computer graphics to elucidate factors important in the sequence recognition by proteins.

You must have a PhD with working experience in molecular biology, biochemistry, or x-ray crystallography. These roles are one-year appointments subject to renewal.

PRI offers a salary commensurate with credentials plus an attractive fringe benefits program including insurances, relocation allowance, and a 401 (k) savings plan. For consideration, please forward CV in confidence to:

Barbara Norton-Gill
Technical Recruiter
Program Resources, Inc.
NCI-FCRF
Bldg. 244, P.O. Box B
Frederick, MD 21701

PRI

Program Resources, Inc.

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IMMUNOLOGY
RESEARCH

Senior Scientist

Sandoz Pharmaceuticals Corporation is a leader in immunotherapy products that improve the quality of life. Our developments are the result of research conducted by professionals who specialize in many different fields.

The Sandoz Research Institute is currently seeking an experienced immunologist to play a vital role in research on therapeutic applications of monoclonal antibodies. Our position offers a unique opportunity for an innovative, self-motivated, independent scientist to develop products for diverse areas like immunoregulation and infectious and tumor diseases. The successful candidate will work closely within an inter-disciplinary research team of molecular biologists, immunologists, biochemists and cell biologists.

The requirements of the position include:
- Ph.D. or equivalent, and at least two years' post-doctoral experience, in immunology or related discipline.
- Record of significant publications in major scientific journals.

Positions at Sandoz offer personal satisfaction, professional opportunities, attractive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey.

For prompt consideration, please forward your resume with salary requirements in confidence to: Director of Human Resources, SANDOZ RESEARCH INSTITUTE, SANDOZ PHARMACEUTICALS CORPORATION, East Hanover, New Jersey 07936.

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bringing research to life
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PESTICIDE CHEMIST AND DATA MANAGER

The Geochemical and Environmental Research Group (GERG) in the Department of Oceanography at Texas A&M University has two positions available. Both positions require a Ph.D. Competitive salaries commensurate with experience will be offered. Active participation in research programs and strong publication record are expected. GERG is a self-supporting research group specializing in environmental chemistry, petroleum geochemistry, marine geochemistry, and marine chemistry and biology. The GERG organization has more than 50 personnel including 12 Ph.D.'s with annual funding exceeding $4 million from a variety of government and private sources.

The Pesticide Chemist position requires experience with all phases of environmental pesticide analyses including extraction, purification, quantitation (GC/ECOID) and QA/QC. GERG's analytical laboratory includes 12 GC's, 4 GC/MS's and 3 LC's. All analytical and laboratory management systems are computer based. Experience in a broad range of environmental analyses is preferred as well as experience with EPA QA/QC procedures. GERG would prefer an applicant with 2-4 years of contract management experience past the Ph.D. Refer to job #8800487.

The Data Management position requires management of GERG's data bases, interaction with governmental contractors and development of laboratory software and hardware. Although the person will act as GERG's Data Manager on large environmental projects, GERG would prefer a candidate that would also participate scientifically in funded research. Experience with statistics and environmental experimental design as well as a background in one of the basic sciences is expected. GERG will try to fill this position with a Ph.D. in computer science or statistics. However, applicants with a Ph.D. in Oceanography or other applied sciences with computer and data management experience will be considered. Refer to job #8800486.

Submit resume to: Employment Manager, Texas A&M University, Personnel Department, YMCa Bldg., College Station, TX 77843-1255.

AN AFFIRMATIVE ACTION
EQUAL OPPORTUNITY EMPLOYER

Molecular Biologist
Gene Expression/Development

At The Upjohn Company, our research and development effort has three goals: to maximize use of critical technology resources; to increase continuity and speed of drug development; and to make the most effective use of our external resources. Upjohn's continued success in the discovery, manufacturing and marketing of pharmaceuticals depends upon the scientific talent in our laboratories.

An expanded research program in our Hairgrowth Research Group has created an immediate need for a molecular biologist to conceive and conduct research as a member of a multidisciplinary team studying the regulation of gene expression during epithelial proliferation and differentiation and epithelial-mesenchymal interaction. The successful candidate will have a Ph.D. degree plus a minimum of 2 years of post-doctoral experience and have a comprehensive knowledge of recombinant DNA technology. The candidate will define and carry out independent projects of their own design and will be expected to publish and present data at national and international meetings. Collaboration with other scientists within and outside the company is expected. Prior exposure to skin and hair biology and/or epithelial differentiation is desirable, however, candidates applying molecular techniques in the study of related developmental systems are also encouraged to apply.

We are located in Kalamazoo, a mid-sized community in southwestern Michigan, midway between Chicago and Detroit. Upjohn offers advancement opportunities, an excellent salary, comprehensive benefits and relocation assistance. For confidential consideration, please call from outside of Michigan toll free 1/800/253-8600, ext. 3-6767, (inside Michigan call collect 616/323-6767) to request an employment application be sent. Please refer to advertisement number 21944-HA when calling. An Equal Opportunity Employer M/F.

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The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.

THE CENTER FOR BLOOD RESERCH HAVARD MEDICAL SCHOOL FLOW CTCOMETRY OPERATOR

Position available to run a new core flow cytometry and sorting facility using the most up-to-date Coulter Epics, lasers and computer interfaces. Previous experience desired. Competitive salary and generous benefits. Please send resume to: Dr. Timothy Springer, The Center for Blood Research, 800 Huntington Avenue, Boston, MA 02115. Equal Opportunity Employer.

HISTOLOGIST

The American University of the Caribbean, School of Medicine (AUC), located in St. Maarten, Netherlands Antilles, seeks a histotechnologist to provide instruction to first year medical students. Excellent salary, benefits, and many recreational opportunities. One year or permanent full-time appointments available. Join AUC now for an adventure of a lifetime. Send résumé to: Medical Education, AUC, P.O. Box 2801, Ponce de Leon Boulevard, #800, Miami, FL 33134.

IMMUNOLOGIST with special interest in macrophage function needed for development of research program in the subdivision of Hepatology at Rhode Island Hospital, Providence, Rhode Island. Candidate must have a Ph.D. in related area of cell biology and qualify for appointment as an assistant professor of medicine at Brown University. Candidate should have experience with immunology, electrophoretic, cell culture, and molecular biologic techniques. Experience with evaluation of macrophage function including monokine production is desirable. The individual is expected to develop an independent research program in an area related to the interaction between liver and tumor cells. Send letter of application and curriculum vitae to: Henry L. Rodgers, M.D., Director, Subdivision of Hepatology, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02902. Qualified candidates will be considered until 22 July 1988. The Rhode Island Hospital is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR PARASITOLOGIST

The Department of Microbiology, Immunology and Parasitology, New York State College of Veterinary Medicine, seeks candidates for a tenure-track position as assistant professor of parasitology. Appointment at a higher level may be possible for an exceptional candidate. The successful candidate will be expected to: (i) develop an independent, competitively funded research program focusing on an animal parasite system and to teach veterinary and graduate students. Applications should have a Ph.D., M.Ph./Ph.D. or equivalent. Experience in molecular parasitology and training at the postdoctoral level is required. This position is part of a major commitment by the department to apply molecular approaches to infectious disease research. Applications including curriculum vitae and the names and addresses of three references should be sent to: Dr. Roger J. Avery, Chairman, Department of Microbiology, Immunology and Parasitology, NYS College of Veterinary Medicine, 616 Veterinary Research Tower, Cornell University, Ithaca, NY 14853-0401 by 5 July 1988. Telephone inquiries will be welcomed 667-253-3400.

Cornell University is an Equal Opportunity/Affirmative Action Employer/Educator.

INDUSTRIAL WASTE SPECIALIST

Sacramento County, California is now accepting applications for a research position concerned with the assessment and evaluation of industrial discharges to the Sacramento Regional Sanitation District. B.S. degree and/or experience required. Fiscal year 1987-88 monthly salary $3357. Applications and application supplements must be obtained from: The Sacramento County Employment Office, 710 "J" Street, Sacramento. Application forms and application supplements must be received by the Employment Office no later than 5:00 p.m., 5 July 1988. Telephone: 916-446-6591. Affirmative Action/Equal Opportunity Employer.

MEDICAL OFFICERS

DHHS-PHS-FDA NATIONAL CENTER FOR TOXICOLOGICAL RESEARCH JEFFERSON, ARKANSAS 72079

NCTR is a nationally recognized research center and major operating component of the Department of Health and Human Services, Public Health Service and Food and Drug Administration. Its mission is to conduct research in such basic disciplines as pharmacology, physiology, biochemistry, microbiology, toxicology and biological modeling, with understanding of the risks posed to human health by exposure to toxic chemicals. The incumbents will serve as medical officers in the Human Research Section and/or Animal Research Section.

The Human Risk Assessment Division has been established to explore in detail the assumptions underlying risk assessment with special emphasis on the incorporation of human, animal and other data. The position is specifically intended to gain expertise in risk assessment in reproductive toxicology, immunotoxicology, pulmonary toxicology, developmental toxicology, carcinogenesis and to apply that expertise to other areas are especially encouraged to apply.

These positions are permanent career-conditioned appointments made competitive through the U.S. Office of Personnel Management. PhIS Commissioned Corps Officers are also encouraged to apply. Salary ranges from $48,000 to $67,000 with phased-in comparability allowances depending on qualifications. Excellent benefits package included. Doctor of Medicine degree from U.S. or Canada or foreign medical school (properly certified by ECFMG) is required. Association with the University of Arkansas for Medical Sciences is encouraged.

Send résumé of research and clinical interests and list of three references to: Dick King, FDA/NCTR, Personnel Officer, Jefferson, AR 72079. For telephone inquiries, call Mr. King or Ma. Hatchen at AC 501-541-4475 or 541-4505. DHHS-PHS-FDA is an Equal Opportunity Employer.

TWO MOLECULAR BIOLOGISTS to join well-funded laboratory to study complement killing of tumor cells. One position requires strong background in molecular cloning. The other position requires experience with tissue culture and protein chemistry. Salary is competitive and depends on experience. For applicants with prior postdoctoral experience, appointment as research assistant professor possible. Positions available immediately. Submit application to: Dr. Carl-Wolfgang Dept., Department of Biochemistry, Georgetown University, 3900 Reservoir Road, NW, Washington, DC 20007. Equal Opportunity/Affirmative Action Employer.

MOLECULAR GENETICIST/BIOLOGIST. Advanced Genetic Sciences (AGS), a company exploring the biology of rodent viruses including mechanisms of rodent virus infection and aspects of virus replication, has a postdoctoral or research scientist position open in the plant genetics department to further develop plant transgenic technology to ensure the successful candidate will be responsible for optimizing maize transposon systems in tobacco and applying them to isolate and characterize maize mutants. The successful candidate should be experienced in recombinant DNA techniques. A working knowledge of bacterial plasmid manipulations and Agrobacterium-mediated transformation is highly desirable. Salary range: $20,000 to $30,000. Send CV and a brief statement of research experience and future plans to: Dr. Bruce J. Brown, Advanced Genetic Sciences, 6701 San Pablo Avenue, Oakland, CA 94608.

MOLECULAR VIROLOGIST. The Section of Comparative Medicine, Yale University School of Medicine, invites applications for an assistant professorship. Candidates should be enthusiastic about pursuing the biology of rodent viruses including the identification of characters controlling duration and spread of infection. An interest in the development of molecular diagnostic reagents for animal viruses is highly desirable. Please send curriculum vitae to: Dr. Abeil L. Comer, Department of Microbiology, Yale University School of Medicine, 333 Cedar Street, P.O. Box 3535, New Haven, CT 06510 by 15 July 1988. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.


POSTDOCTORAL FELLOW. Position available immediately for a Ph.D. or M.D. in the development of new treatment methods which involve the application of molecular biology to human disease. Experience in molecular biology and immunology to characterize immunologic alterations induced by thermal injury. Salary range: $22,000 to $27,000, based on experience. U.S. citizenship or permanent resident required. Send curriculum vitae and names of three references to: Dr. Ann Bjornson, Director, Division of Immunology, James E. Gamble Institute of Medical Research, 2141 Auburn Avenue, Cincinnati, OH 45219. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW/RESEARCH ASSOCIATE POSITION in neuronal transplantation and regeneration studies involving the mammalian visual system with particular emphasis on movements of transplanted cells in the visual cortex of dystrophic animal models. A 2-year position with an option for an additional year will be available immediately. Position requires a Ph.D. or M.D. with extensive training in retinal research with particular emphasis in neuroanatomical and immunohistochimical techniques. Starting salary negotiable. Send curriculum vitae and names of three references to: Dr. James E. Turner, Department of Anatomy, Bowman Gray School of Medicine, Wake Forest University, Winston, NC 27103. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL OPPORTUNITIES IN NEUROSCIENCE

Howard Hughes Medical Institute, one of America’s leading medical research organizations, in conjunction with Johns Hopkins University School of Medicine, has two positions available to study the regulation of the nicotinic acetylcholine receptor ion channel by protein phosphorylation.

The two projects involve: (i) the study of the effect of protein phosphorylation on the single channel kinetics of the receptor by patch clamp recording from reconstituted liposomes containing purified receptor as well as from oocytes injected with normal and mutant receptor cDNA (ii) the study of tyrosine phosphorylation of the nicotinic acetylcholine receptor in muscle cells in culture. Candidates are sought who have expertise in electrophysiology or biochemistry. Send curriculum vitae and three letters of reference to: Dr. Richard L. Huganir, Howard Hughes Medical Institute Department of Neuroscience, Johns Hopkins University School of Medicine, 725 North Wolfe Street, Room 818 PCTB, Baltimore, MD 21205 An Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL FELLOWSHIP/RESEARCH ASSOCIATE: Several funded positions are available in a study of molecular mechanisms of host defense systems with appointments at the postdoctoral or research associate level. Research areas include (i) cloning, structure-function studies and biological properties of a newly recognized group of endotoxin binding proteins, (ii) regulation of TNF gene expression and (iii) the role of TNF and other cytokines in inflammation. Expertise in molecular biology, protein chemistry or glycolipid/lipid chemistry is desirable. Send curriculum vitae and names of three references to: Richard J. Ulevitch, Ph.D. or Peter S. Tobias, Ph.D., Research Institute of Scripps Clinic, JMM 12, 10666 North Torrey Pines Road, La Jolla, CA 92037.

POSTDOCTORAL POSITION CHEMISTRY/BIOLOGY

Los Alamos National Laboratory is seeking postdoctoral candidates to participate in a project to design and synthesize novel fluorescent probes and apply these probes to problems in cellular and molecular biology. The successful candidate should have experience in several of the following areas: (i) organic and/or biochemical synthesis of fluorescent molecules; (ii) hormonal regulation of cell function; (iii) chromosome and nucleic acid labeling; (iv) biophysical measurements including flow cytometry and sorting, cell imaging, and fluorescence microscopy. The candidate should have received a Ph.D. in chemistry, biochemistry, cell biology, molecular biology or related field within the past 3 years. For more information on the research project, contact one of the principal investigators: Babetta Marrone, 505-667-3279; Clifford Ukefe, 505-665-2560; Thomas Whaley, 505-667-2765.

This position offers the opportunity to interact with a multidisciplinary team of scientists and utilize state-of-the-art facilities in chemistry and biology. The Biosciences Program at Los Alamos National Laboratory includes the National Flow Cytometry Resource, the Human Genome Program, and the Stable Isotopes Resource.

Postdoctoral appointments are for 1 year, renewable for a second year, and salaries range from $32,820 to $34,580 per year. Appointees receive employee benefits, including incoming travel and moving expenses.

To formally apply, please send résumé, employment application, three letters of reference, and graduate and undergraduate transcripts to: Carol M. Rich, Human Resources Development Division, PO Box 68-027, Los Alamos National Laboratory, Los Alamos, NM 87545. Los Alamos National Laboratory is an Affirmative Action/Equal Opportunity Employer.

GLYCOPROTEIN/CARBOHYDRATE BIOCHEMIST

Postdoctoral position available immediately, for a Ph.D., trained in glycoprotein and/or carbohydrate biochemistry to study the role of glycoprotein oligosaccharides in membrane assembly. Must have experience in HPLC and column chromatography of proteins/peptides and carbohydrates. Salary range negotiable. Send curriculum vitae and names of three references to: Dr. Steven Plepler, Bethesda Eye Institute, St. Louis University School of Medicine, 3655 Vista Avenue, St. Louis, MO 63110.

Boehringer Mannheim is a leader in Medical Diagnostics, Biochemicals, and Medical Research. This leadership has been attained through emphasis on quality and team effort. We are continuing our expansion and growth throughout 1988, and are seeking those talented individuals looking for a dynamic, progressive organization which offers the potential to turn aspirations into reality.

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At Boehringer Mannheim, we offer an exciting and challenging environment as well as an excellent compensation and benefit program. We invite you to send your resume with salary history, for confidential consideration to: Dept. SCI, Human Resources, BOEHRINGER MANNHEIM, P.O. Box 50100, 9115 Hague Road, Indianapolis, IN 46250. We are an equal opportunity employer.
**Bring Your Skills to Life.**

Syntex, an international leader in the pharmaceutical and health care industry, has an opportunity in our Institute of Biological Sciences, Department of Endocrine Physiology for a:

**Staff Researcher**

Based in our research headquarters on the San Francisco Peninsula, you will characterize novel somatostatin analogs in vivo and in vitro. Responsibilities include studying receptor interactions at the molecular level and the development of a variety of animal models, particularly in the area of diabetes and tumor biology.

To qualify, you must have a PhD in endocrinology or related field. Coursework in molecular biology and/or diabetes would be helpful. Other requirements include 1-3 years' postdoctoral work and experience in one or more of the following: radioimmunoassays, HPLC, cell culture and DNA/RNA assays.

Syntex offers a competitive compensation and relocation package in campus-like surroundings. For immediate consideration, please send your resume, to: Syntex, Professional Staffing, Dept. KHISR, 3401 Hillview Ave., Palo Alto, CA 94304.

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**POST-DOCTORAL FELLOWSHIP**

Merck Sharp & Dohme Research Laboratories is offering a Post-Doctoral Fellowship position to study the molecular biology of the components involved in the blood coagulation cascade. Specifically, the studies will focus on the molecular aspects of factor VII/tissue factor interactions. The use of site specific mutagenesis and all aspects of molecular biology, including DNA library construction, screening and characterization as well as heterologous expression in mammalian and bacterial cells is required.

You will find a stimulating and challenging scientific environment within our labs as well as an excellent opportunity to carry out meaningful research and publish.

Excellent salary and benefit programs accompany this position at our modern research facilities located 25 miles northwest of Philadelphia.

Please send resume with salary requirements to:

Manager, Research Personnel
W42-2

Merck Sharp & Dohme Research Laboratories
West Point, PA 19486

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**UNIVERSITY OF COPENHAGEN**

**FACULTY OF NATURAL SCIENCES**

Applications are invited for a Chair (Professorship) in GENERAL/MOLECULAR PHYSIOLOGY at the Zoophysiologial Laboratory B, the August Krogh Institute, from 1 July, 1989.

The professor will be appointed as a Civil Servant under the Ministry of Education and Research. The annual salary amounts to approximately 360,000 Danish kroner.

Candidates are being sought with research interests in the area of ion transport across biological membranes. The physiology and biochemistry of the cell membrane is being given high priority in the planning of the direction of future research at the August Krogh Institute. Current research in this field ranges from biophysical and biochemical characterization of membrane transport systems, and studies of the cellular regulation of membrane transport, to studies of integrated transport systems in heterocellular epithelia.

In the evaluation of the applicants, a background in general physiology and biophysics will be given importance, as will expertise in experimental techniques in the above mentioned research area. The selected candidate will be expected to interact with the existing research groups at the August Krogh Institute.

Further information about research planning, facilities, and staff can be obtained from the Chairman of the Zoophysiological Laboratory B. or from the Chairman of the August Krogh Institute (13 Universitetsparken, DK-2100 Copenhagen Ø, Denmark).

The Professor will participate in the Department's teaching at all levels. The language of instruction is Danish, but English will be accepted for the first two years of the appointment.

Applications should include a current curriculum vitae, a complete list of publications, copies of the scientific publications and further documentation which the applicant wishes to be considered, and a brief outline of proposed research. Information concerning the applicant's teaching experience, which will be evaluated by the Study Board, should also be enclosed. All material should be submitted in triplicate together with a complete list of the enclosed material.

After evaluation of the applicants' qualifications by a Search Committee, the report will be sent to all applicants in complete form.

Applications are to be addressed to Her Majesty the Queen of Denmark and sent to the Faculty of Natural Sciences, Palsum Institutet, Blegdamsvej 3, DK-2200 Copenhagen N, Denmark.

The closing date for receipt of applications is 1 September 1988.
Wayne State University

DEAN
School of Medicine

Wayne State University invites applications and nominations for the position of Dean, School of Medicine. The School of Medicine has been operating and granting degrees as a college of medicine since 1868. The School is the largest single campus medical school in the country. It is closely affiliated with the Detroit Medical Center (DMC), a comprehensive health care delivery system with a high technology focus on whose main campus the school is situated. The DMC consists of six acute care hospitals and one rehabilitation hospital comprising 2,200 beds and an extensive network of ambulatory care centers and other services. The primary mission of the School of Medicine is to improve the health of the community through its combined educational, research and service programs.

Responsibilities: The dean, as principal administrative officer, reports to the Provost. In consultation with the School’s faculty, the Dean leads in the formulation of academic and administrative matters, the allocation of resources, in faculty/staff personnel matters and in all relationships with the affiliated institutions that comprise the Detroit Medical Center and the local Veterans Administration hospital. The Dean plays a major role in the DMC as a senior corporate officer and serves as the Chairman of the DMC Medical Board. This is the senior DMC medical policy administrative post reporting directly to the President/CEO of the DMC and works directly on the development of DMC clinical programs.

Qualifications: Candidates must possess the M.D. degree and have compiled a record of clinical and scholarly achievement and teaching commensurate with appointment to the rank of professor with tenure. The candidate should be a proven leader with a distinguished record of administrative excellence, and with a commitment to affirmative action. The candidate should be skilled at interpersonal relations, and be able to work effectively with a large and talented faculty and with outside medical and health care groups. The applicant should have a proven record of obtaining and managing substantial budgets and grant activities. Salary and benefits are negotiable.

Application: Interviews with potential candidates will be conducted during the Summer/Fall, 1988. Application letters should include a vita, names and addresses of three references and supporting materials. Nominations and applications should be submitted to:

Charles Whitten, M.D.
Chairman, School of Medicine
Dean Search Committee
Office of the Dean
1270 Scott Hall
Wayne State University
Detroit, MI 48202

For best consideration, applications should be received by July 16, 1988.

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

PROTEIN ENGINEERING LABS

We are offering a unique and exciting opportunity to join us at an early stage of development, on the frontiers of protein engineering technology. Protein Engineering Labs employs state-of-the-art techniques in peptide/protein synthesis, computer modeling, molecular biology, organic chemistry, and semi-synthetic analog chemistry to develop novel human therapeutics. You can work with leading scientists from industry and research institutions and contribute to the building of a company which is on the forefront of creating new therapeutic approaches to anti-virals, anti-cancer agents, and immune modulators. We are seeking outstanding scientists and technical personnel with the following expertise:

**Protein/Peptide and Semi-Synthetic Chemistry**

PhD in Chemistry or Biochemistry with background and experience in protein and peptide chemistry, purification techniques, and derivation and modification of proteins and peptides, to participate in collaborative and independent projects.

**Molecular Biology**

PhD in Molecular Biology with background and experience in construction, expression and manipulation of DNA including site-directed and cassette mutagenesis, to participate in collaborative and independent projects.

**Molecular Modeling**

PhD in Biophysics or related discipline with background and experience in computer-aided-molecular modeling and rational drug design to participate in collaborative and independent projects.

**Immunology**

MD/PhD or PhD with experience in basic cellular and molecular immunology and the design of novel and dynamic assays and screening systems.

PROTEIN ENGINEERING LABS provides a challenging and creative work environment in close proximity to several major academic research institutions. We offer competitive salary and benefits as well as an incentive option program.

Please send curriculum vitae and a list of publications and/or resume to:

**PROTEIN ENGINEERING LABS**
650 Town Center Drive, Suite 810
Costa Mesa, CA 92626
Attn: Human Resources Department
POSTDOCTORAL POSITION
MOLECULAR AND CELULAR BIOLOGY
JEWISH HOSPITAL AT WASHINGTON UNIVERSITY MEDICAL CENTER

Position available for quality person to study the gene expression of tissue inhibitor of metalloproteinases (TIMP) in fibroblasts and during the differentiation of human mononuclear phagocytes. Studies will involve the mechanisms of TIMP regulation in fibroblasts and U937 cells utilizing state-of-the-art molecular and cell biologic approaches. The position allows for collaborative research with other faculty members studying the biology of extracellular matrix. Applicants should send their curriculum vitae and names of references to:
Dr. Howard G. Wiegus
Division of Dermatology
Jewish Hospital at Washington University Medical Center
St. Louis, MO 63110

POSTDOCTORAL POSITION
HARVARD MEDICAL SCHOOL

Opportunity available immediately for Ph.D. to study molecular and cellular biology of muncarins receptors and G-proteins in cardiac cells. Experience in molecular cloning techniques desirable. First year salary guaranteed. Send curriculum vitae to: J. R. Galper, M.D., Ph.D., Cardiovascular Division, Brigham & Womens Hospital, 75 Francis Street, Boston, MA 02115. Telephone 617-732-5679.

POSTDOCTORAL POSITION
available in the areas of molecular biology and immunology to pursue research on equine viral diseases and viral immunobiology. Send curriculum vitae and names of three references to: Drs. George Allen and Ernest Bailey, Department of Veterinary Science, Glack Equine Research Center, University of Kentucky, Lexington, KY, 40546-0099. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
available to study gene expression and molcular genetics of the surfactant-associated proteins (Flowers et al. JBC: 261, 9029); Jacobs et al. JBC: 262 9808, 1987). Molecular biology/biochemistry background is preferable. Please send curriculum vitae and names of three references to: Joanna Flowers, Ph.D., Harvard Medical School, 221 Longwood Avenue, Richardson-Fuller Building, Boston, MA 02115. Telephone: 617-732-4154. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
PLANT TISSUE CULTURE

Position available starting after 1 September 1988, for a postdoctoral associate to work with an international team of molecular biologists to transform and regenerate cassava plants to improve agronomic characteristics. The position will run for 2 to 3 years in the U.S. with possibility of permanency at a European location to be determined. Experience in cell culture and plant regeneration required, cytogenetics or in situ techniques desirable. Send curriculum vitae and three letters of reference to: Dr. R. N. Beachy, Department of Biology, Box 1137, Washington University, St. Louis, MO 63130. Washington University is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF CONNECTICUT
HEAL, AND CELLULAR RESEARCH ASSOCIATE/POSTDOCTORAL FELLOW

This position involves the development of acoustical and electrical measurements to be used for evaluation of the functional state of the peripheral and central components of the auditory system. The research will be conducted in both laboratory and clinical settings. The position provides an excellent opportunity for strengthening skills in computer applications and knowledge of the auditory system. Qualifications: Doctoral degree. Applicants should send curriculum vitae and letters of recommendation to: Dr. D. D. Kim, Director of Research, Division of Otolaryngology, University of Connecticut Health Center, Farmington, CT 06032. Telephone: 203-679-3690. An Affirmative Action/Equal Opportunity Employer M/W/H.

INTegrated Genetics utilizes recombinant DNA methods to produce proteins for therapeutic use and, since its inception in 1981, has pioneered the use of mammalian cells as the expression system of choice. Continuing growth at the company has lead to the creation of this challenging new position.

DIRECTOR OF MOLECULAR BIOLOGY

We seek a preeminent scientist to take overall responsibility for a large group of professionals involved in several aspects of Molecular Biology at IG. Reporting to the Vice-President of Science, this position will require expertise in at least one central area of molecular biology such as cloning, expression, and/or characterization of rare mRNAs and their genes. Additional background in cell biology would be highly desirable.

In addition to graduate and postdoctoral research in molecular biology, the successful candidate will have at least five years experience running their own laboratory, though not necessarily in an industrial setting. An exceptional record of published research, innovation, drive, and the ability to interact with and lead others is essential.

Integrated Genetics is located in an attractive suburban area 25 miles west of Boston. We offer an excellent compensation and benefits package including equity participation. For immediate consideration, please send your resume to: Manager of Human Resources, Dept. S610, Integrated Genetics, Inc., 31 New York Avenue, Framingham, MA 01701.

An equal opportunity employer.

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INTEGRATED GENETICS

CAREER OPPORTUNITIES AT BECKMAN INSTRUMENTS

Beckman’s Diagnostic Systems Group, located in Southern California, is actively seeking highly motivated professionals for exceptional opportunities in our Advanced Development Group.

- Project Scientist—Will perform and supervise research leading to the development of proprietary diagnostic tests for CMV and HPV. Requirements include a PhD in Virology/Microbiology or Molecular Biology with 4 years experience in DNA probe development, especially in non-isotopic labels. Post-doctorate and industry experience highly desirable.
- Biologists—Will perform research and development leading to hybridization probe diagnostics. Requirements include a PhD or MS in Microbiology, Molecular Biology or Biochemistry with 0-4 years experience in recombinant DNA and/or nucleic acid chemistry. Familiarity with tissue culture, immunochemistry, DNA probes or virology highly desirable.
- Biologists—Must have hands-on experience in molecular biology, rDNA and/or protein chemistry. Will prepare bacteriophage, plasmid DNA’s and recombinant proteins to aid in the development of recombinant based medical diagnostics. Requirements include a BS with 4-6 years experience; MS with 2-4 years; PhD with 0-2 years in Microbiology, Biology, Bacteriology or Chemistry.


DIAGNOSTIC SYSTEMS GROUP

BECKMAN

A SmithKline Beckman Co.
The Division of Trauma in the Department of Surgery at the State University of New York at Stony Brook is recruiting for an individual to develop and organize its research program in trauma, burns, shock, sepsis and intensive care. A Ph.D. in Physiology, Cell Biology, Biochemistry or Bioengineering or intensive care is required. Please send CV to:

David J. Kreis, Jr., MD, FACS
Chief, Division of Trauma
Health Sciences Center (HSC) 19, 060
SUNY at Stony Brook
Stony Brook, NY 11794

SUNY at Stony Brook is an Equal/Opportunity/Affirmative Action Employer

RESEARCH SCIENTISTS/RESEARCH ASSOCIATES
PROTEIN STRUCTURE
Amgen, a recognized leader in the production of human pharmaceutical, animal health care and specialty chemical products through applied biotechnology, has immediate opportunities for Research Scientists and Research Associates in our Protein Development Group.

RESEARCH SCIENTISTS
Dept. #317
Candidates for these positions must have a Ph.D. and extensive experience in protein sequencing as well as a complete knowledge of protein chemistry.
Responsibilities will include support of products currently under development and characterization of new proteins and factors as part of our ongoing exploratory research efforts.

RESEARCH ASSOCIATES
Dept. #316
Qualified candidates for these positions must have a BS or MS in Biochemistry, Chemistry or a related discipline and have hands-on experience with HPLC. An understanding of computer-based data acquisition is highly desirable.
Responsibilities for these positions will include the characterization of proteins by HPLC, amino acid composition and sequence analysis.

Amgen is a dynamic and fast paced organization providing an exciting and innovative research environment as well as an attractive location northwest of Los Angeles. Amgen also offers an excellent compensation and benefits package.

If you have the necessary qualifications and are interested in the career opportunities that only a company like Amgen can provide, please send a c.v. or resume, including a list of references, in confidence, to:
Recruitment, (Specify Dept. #)
Amgen
1900 Oak Terrace Lane
Thousand Oaks
CA 91320

AGUATIC TOXICOLOGIST
$42,180-$59,040
Comprehensive Benefits
San Francisco Bay Area

East Bay Municipal Utility District, the West's largest independently operated water and wastewater utility is pleased to announce this new position in our Laboratory Services Division.

Responsibilities include establishing and managing key District programs in the areas of:
• Water Quality-based Toxicity Control
• Development and implementation of Toxicity Reduction Evaluations (TREs) for wastewater treatment plant
• Evaluation of health risk assessment standards as related to water and wastewater treatment
• Assessment of wastewater treatment plant volatile emissions and organic compounds in drinking water

Requires 6 years' experience and strong academic background; PhD preferred. Knowledge of regulatory requirements for water and wastewater industry is highly desirable. Starting salary commensurate with educational and work experience.

Requests for special applications will be accepted starting May 31, 1988 and the position will be open until filled.

Schering-Plough

EBMUD

Attn: Michael Franklin
EAST BAY MUNICIPAL UTILITY DISTRICT
Exam Unit
2127 Adeline Street
P. O. Box 24055
Oakland, CA 94623-1055
(415) 891-0666

Postdoctoral Fellow

Join our Tissue Culture Development research team where we offer scientific professionals an opportunity to develop their expertise while significantly advancing our research efforts.

Position requires PhD in Cell Biology/Biochemistry. Must have a strong background in cell physiology and very good understanding of molecular biology. Knowledge of modern analytical techniques and an ability to plan and execute research projects independently are necessary. (TM87-32)

We offer a competitive salary and benefits package. Please forward resume indicating job *to:* Mr. M. Urdanick, Schering-Plough Corporation, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer.
**Visiting Scientist/Molecular Biology & Protein Chemistry**

**Postdoctoral Visiting Scientists positions are available** within the Medical Products Department at Du Pont's Glenolden Laboratory in Pennsylvania. The successful candidate will be involved in the cloning, expression and/or characterization of novel proteins involved in immunoregulation, with a particular emphasis on lymphokine receptors. Candidates should possess a Ph.D. with experience in molecular biology or receptor purification and characterization. The appointment will be for two years.

At the world renowned Du Pont Company, you'll find a highly stimulating scientific environment in addition to an excellent salary. To be considered, please send resume, bibliography and references by August 10, 1988 to: Dr. Richard Robb, Glenolden Laboratory, E. I. du Pont de Nemours and Company, 500 S. Ridgeway Avenue, Glenolden, PA 19036.

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**RESEARCH ASSOCIATE Purification Process Development**

**Amgen** is a recognized leader in the development of human health care, animal health care and specialty chemical products through applied biotechnology. As a result of our continuing growth we have an opportunity for a Research Associate with skills in analytical biochemistry to assist in our Purification Process Development Group.

Responsibilities for this position include the isolation and purification of recombinantly produced proteins at both the laboratory and pilot scale.

Qualified candidates must have a BS or MS in Biochemistry or a related discipline, and several years’ experience in the purification and characterization of proteins. Experience with HPLC, column chromatography, SDS-PAGE and IEF is highly desirable.

**Amgen** offers a stimulating and challenging research environment as well as an excellent compensation and benefits package. Our location (about an hour northwest of Los Angeles) offers the best in Southern California living.

Qualified candidates should send a C.V. or resume, including a list of references, in confidence to:

**RESEARCH ASSOCIATE**

**East-West Center**

The East-West Center, established in 1960 by the United States Congress which provides principal funding, is a public, nonprofit educational institution, with an international board of governors. Support also comes from Asian and Pacific governments, international organizations, and private institutions.

Applications are being accepted for a three-year limited Research Associate position. The Research Associate will be responsible for planning, developing, and coordinating the programs, jointly based in the Environment and Policy Institute and the Population Institute, dealing with urban environmental issues and the range of problems associated with the dynamics of human settlements evolution in Asia and the Pacific. Among the issues to be defined and dealt with are the changing nature of urban-rural relationships, the structures and functions of urban and settlement hierarchies, the environmental planning implications of such changes, the movement of jobs and people within the spatial systems that are evolving particularly in Asian countries, the environmental consequences of rural industrialization and multi-nodal metro-politanization, the changing character of environmental perceptions as between rural and urban areas, and the maintenance and enhancement of environmental quality within various sized settlements ranging from village to metropolis. Responsibilities will include basic research on any and all of these issues; organizing research-related conferences; promoting interaction among scientists and governmental officials from developing countries within the region; seeking sources of external financial support; advising EWC student grantees; and maintaining liaison with centers of research in the Asia-Pacific region concerned with urban environmental problems.

**REQUIRED QUALIFICATIONS:** Ph.D. (or equivalent) in sociology, geography, planning, demography, or one of the cognate environmental or social sciences, plus at least two years research or professional experience and a strong publications record in research on urbanization and environmental problems. Familiarity with the Asia-Pacific region and first-hand knowledge of at least one country in the region as shown by publications.

**PREFERRED QUALIFICATIONS:** Experience in planning, organizing, and managing research projects involving individuals from various countries in Asia and the Pacific.

**SALARY RANGE:** $27,716 to $46,679 per year, depending on qualifications, plus cost-of-living allowance currently at 22.5% (subject to change).

Submit resume with cover letter which includes title of position you are applying for, a narrative description detailing relevance of your qualifications and background to the responsibilities of the position, and names and addresses of three professional references. Applications must be postmarked by July 15, 1988. Send to: Rebecca Dixon, Personnel Office, Dept. 19, East-West Center, 1777 East-West Road, Honolulu, Hawaii 96848.

An Equal Employment Opportunity/Affirmative Action Employer

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**Postdoctoral Fellowship**

Applicants are invited for a postdoctoral fellowship immediately available at the Biotechnology Department of Ciba-Geigy in Basel, Switzerland.

The research will involve the identification of the eukaryotic receptor for a bacterial toxin and the subsequent cloning of the receptor gene. A combination of DNA technologies and immunological screening methods will be applied.

Qualified candidates with a strong background in the relevant technologies will be given preference.

The successful applicant will be able to work in an interesting and exciting environment in which cooperation is strongly encouraged.

Applications including curriculum vitae, a description of research, the names and addresses of three references from whom we may request letters of evaluation should be sent under ref. “SC 477” to Dr. M. Graf, CIBA-GEIGY Ltd., Personnel Department, Postfach, 4002 Basel, Switzerland.

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**CIBA-GEIGY**

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**RESEARCH ASSOCIATE**

**East-West Center**
Opportunities in Cystic Fibrosis Research

NIDDK/NIH
Cystic Fibrosis Foundation
FELLOWSHIP PROGRAM
at the
NATIONAL INSTITUTES OF HEALTH
Bethesda, Maryland

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) of the National Institutes of Health and the Cystic Fibrosis Foundation announce the availability of postdoctoral training opportunities at the NIH. This fellowship program will offer advanced research training with NIH intramural staff and sabbatical support for M.D.'s and/or Ph.D.'s in fields relevant to the rapidly developing cystic fibrosis research areas.

Subjects and preceptors include:

- **CELL BIOLOGY OF SECRETION**

- **ION CHANNELS**
  E. Rojas, P. Skolnick, K. Spring, B. Baum

- **MOLECULAR BIOLOGY**
  D. Camerini-Otero, L. Henighausen, G. Felsenfeld

- **MOLECULAR EMBRYOLOGY**
  J. Dean, F. DePablo

- **GLYCOPROTEINS AND GLYCOLIPIDS**
  B. Weintraub, V. Ginsburg, A. Minton, D. Roberts

- **MICROBIOLOGY**
  J. Foulds

Consideration will be given to supporting programs with other preceptors and/or laboratories at the NIH.

For further information contact either:

Harvey B. Pollard, M.D., Ph.D. OR Robert J. Beall, Ph.D.
Director Executive Vice President
NIDDK-Cystic Fibrosis Cystic Fibrosis Foundation
Foundation Fellowship Program
Building 8 Room 401 Cystic Fibrosis Foundation
National Institutes of Health
Bethesda, Maryland 20892
6931 Arlington Road
Bethesda, Maryland 20814

Request For Research Grant Applications
ON
INFECTION, IMMUNITY AND INFLAMMATION IN CYSTIC FIBROSIS

The Cystic Fibrosis Foundation invites investigator-initiated research grant applications in the areas of host responses to chronic pseudomonas lung infection, and the role of infection and host inflammatory reactions in lung damage in cystic fibrosis (CF).

This special request is intended to encourage innovative, meritorious studies focusing on areas including, but not limited to:

- Host and bacterial factors that predispose to pseudomonas colonization and immunologic approaches to limit this process.
- Defects in phagocytic defense of the CF lung.
- Roles of immunologic and pro-inflammatory mediators in lung destruction.
- Role of host and bacterial proteases in CF lung disease.
- Use of immunomodulators, anti-inflammatory drugs or protease inhibitors.

Applications must demonstrate potential relevance to CF.

Awards will be made as grants-in-aid. Applicants may request up to $100,000 in total annual costs (direct and indirect) for up to two years.

Interested individuals are encouraged to contact the Foundation to discuss the potential relevance of their work. The deadline for submission of applications is September 1, 1988. Application materials are available from:

Cystic Fibrosis Foundation

6931 Arlington Road
Bethesda, Maryland 20814
(301) 951-4422
Postdoctoral Positions

New England Biolabs, a pioneer and leader in biotechnology located twenty miles north of Boston, is seeking applicants for:

**Gene Cloning in Streptomyces**—Candidate should have a strong background in Streptomyces molecular biology to work on projects involving cloning, overproduction and mutagenesis of restriction-modification systems in Streptomyces.

**Molecular Genetics**—Candidate should have strong background in molecular biology or bacterial genetics to study the interaction between restriction-modification systems and the host cell.

In addition to competitive salary, New England Biolabs offers a very generous fringe benefits package. Attendance at meetings, publication of research results and open communication with others are encouraged.

Candidates please submit curriculum vitae with three references to:

New England Biolabs, Inc.
Human Resources
32 Tozer Road
Beverly, MA 01915-5510

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Positions Open

**POSTDOCTORAL POSITIONS** are available in the Department of Anesthesia Research Laboratories, Harvard Medical School/Brigham and Women's Hospital. Applicants should have a Ph.D. in molecular biology or in electrophysiology. A candidate with dDNA cloning experience will participate in the study on the expression of voltage-gated Na channels in calcium, initially at the mRNA level. The candidate will participate in single-channel studies on the pharmacological properties of Na channels. Please send a description of research interests, curriculum vitae and names of three references to: Dr. Qing Su Wang, Department of Anesthesia, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.

**POSTDOCTORAL POSITIONS** are available in the Department of Pathology and Anatomy to work on: (i) Cloning, sequencing, and expression of plant and fungal virus genes; and (ii) Inheritance and stability of foreign genes in transgenic plants. Excellent environment for strong interdepartmental programs in molecular virology and gene transfer technology. Applicants should have Ph.D. with strong background in recombinant DNA technology. Send curriculum vitae and three letters of reference to: S. A. Ghabrial, Department of Plant Pathology, University of Kentucky, Lexington, KY 40546-0091. An Equal Opportunity Employer.

**RESEARCH ASSISTANT**

Parmy Hearing Institute at Loyola University has an opening for a research assistant. Primary responsibilities will be supervising the anatomy laboratory and preparing vertebrate neural tissue for viewing under the light microscope. B.S. in biological science and experience in basic histological techniques are required. M.S. degree and experience in neurobiology and SEM techniques are desirable. Submit resume by 24 June 1988, to:

Sean Hewiston
Director of Human Resources
Loyola University of Chicago
6528 North Sheridan Road
Chicago, IL 60626
Equal Opportunity Employer M/F

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Positions Open

**POSTDOCTORAL POSITIONS** (two) Available 1 December 1988 to study molecular aspects of natural transmembrane ion channels as well as cell population and single cell aldosterone secretion measurement. This position is part of an interdisciplinary program investigating the endocrinological aspects of hypertension. Requirements: U.S. citizenship or permanent residency; Ph.D. or equivalent; cell electrophysiology experience preferable. Please send curriculum vitae and brief letter of intent to: Stan E. Tillotson, Ph.D., BUMC, Physiology, 750 East Concord Street, Boston, MA 02118. Equal Opportunity Employer.

**RESEARCH ASSOCIATE**

A research associate is needed to work in the area of transmembrane ion channels as well as single cell aldosterone secretions. Experience in steroid secretion and pharmacological training are desired. Please send resume to: Hans Drayer, Manager, Biological Research and Development, Beecham Laboratories, East Lincoln Road, White Hall, IL 62092. An Equal Opportunity/Affirmative Action Employer.

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CHIMERA BIOTECH, INC.

**TRANSGENIC ANIMAL RESEARCH**

Chimera Biotech, Inc. is a dynamic and exciting biotechnology company located in San Diego, California. We are a rapidly growing company with the goal of becoming the technology and market leader in the production and use of transgenic animals.

**DIRECTOR OF RESEARCH**

The successful candidate will have a Ph.D. in Molecular Biology or a related discipline with experience in state-of-the-art techniques in transgenic animal production, such as micro-injection, embry-
BIOTECH
AT ITS BEST

Integrated Genetics, Inc., a recognized leader in biotechnology, develops therapeutic and diagnostic products for the health care industry. Our continuing success leads to these new opportunities:

SENIOR SCIENTIST

Applied Expression
Take a leading role in our research effort in the area of gene expression, particularly in the application of expression vectors in mammalian cells. Requires a Ph.D. in molecular biology, 2 yrs.' postdoctoral training, and 2-5 yrs. of research experience in industry. We seek a highly motivated, accomplished scientist with a good publication record and experience with one or more eucaryotic expression systems.

STAFF SCIENTIST

Pharmacology
Coordinate and perform testing of new therapeutic drugs including toxicology studies for FDA approval. Requires a Ph.D. in Pharmacology, Biopharmaceutics, or Pharmacokinetics and at least 2 yrs.' experience in pharmacokinetics of peptide/protein molecules, coagulation and/or thrombosis animal model systems, and toxicology studies for human clinical trials.

STAFF SCIENTIST

Discovery
Join a team investigating and evaluating new product opportunities. Requires close interaction with scientific staff, research and evaluation of publications, and attendance at scientific meetings with follow-up on contacts. Requires a Ph.D./M.D. in science, superior communication and interpersonal skills, and a broad understanding of the science and business of biotechnology.

STAFF SCIENTIST

Molecular Biology
A Ph.D. with a broad base of molecular biology skills, particularly in the areas of cDNA synthesis and library constructions in both phage and plasmid vectors is needed to work on various research projects. Experience with procaryotic and/or eucaryotic expression systems would be helpful.

STAFF SCIENTIST

Cell Biology
Cell biologists are needed to study the utility of growth factors for therapeutic use and the influence of cell type on protein production by mammalian cells. Requires a Ph.D. and at least 2 yrs.' postdoctoral experience in one or more of the following: cell surface receptor-ligand interactions; intracellular mechanisms of growth factor or transforming protein action; effects of growth factors and/or extracellular matrix on the biosynthetic capacity of cells.

STAFF SCIENTIST

Protein Chemistry
Enhance our structural characterization of natural and recombinant proteins by developing novel techniques to study post-translational modifications. A Ph.D. in Biochemistry and experience in peptide mapping, purification, sequencing and amino acid analysis, or chemical modification of proteins is required. Postdoctoral and/or industrial experience in a protein sequencing facility a plus.

Integrated Genetics is located in an attractive suburban area 25 miles west of Boston. We offer an excellent compensation and benefits package, including three weeks’ vacation and equity participation. For immediate consideration, please send your resume, referencing the position of interest, to:
David Nikka, Dept. S610
Integrated Genetics, Inc.
31 New York Avenue, Framingham, MA 01701.

An equal opportunity employer.
**Immunology Research**

Pfizer Central Research is inviting applications from immunologists to take part in the development of a new research program. Working with a strong multidisciplinary project team, you will apply your basic research skills to conceptualizing new strategies for the discovery of immune modulating agents for animal health applications.

You must possess a PhD and at least two years of postdoctoral experience in Microbial Immunology. While specific experience with assays for cytokines and immune cell functions will be considered an asset, educational training, intellectual capabilities and leadership traits are most important. Prior experience in drug discovery or evaluation is not required.

This position offers an excellent opportunity for professional recognition and growth. We also offer excellent salary, benefit and relocation package plus an attractive southeastern Connecticut shore location. Qualified applicants should submit their resume, a brief description of research accomplishments, and the names, addresses and phone numbers of three professional references to: Mr. Donald R. Nelson, Manager of Employee Relations, Pfizer Central Research, Eastern Point Road, Groton, CT 06340.

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**POSTDOCTORAL FELLOW - CELL BIOLOGY**

Postdoctoral position available to study the regulation of blood cell differentiation at the cellular and molecular levels with emphasis on monocyte/macrophages and megakaryocytes. Opportunity to study the effects of HIV on monocyte development and functions. Experience with contemporary techniques in molecular and cellular biology required. Send curriculum vitae and references to Dr. Allan Mufson, American Red Cross, Holland Laboratory, 15601 Crabbs Branch Way, Rockville, MD 20855.

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

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**Research Associates**

ZymoGenetics, Inc. is a recombinant DNA company engaged in developing human plasma proteins, growth factors, immunoglobulins, and other commercially valuable products. We currently have positions available in our Mammalian Cell Expression and Protein Chemistry departments.

Both positions require a BS/MS degree. For Mammalian Cell Expression we require experience in several of the following: DNA and RNA isolation; cloning DNA into plasmid vectors; tissue culture; isolation and purification of proteins; and assay of proteins.

For Protein Chemistry, experience in a number of the following is needed: isolation and purification of proteins and peptides; ELISAs; SDS electrophoresis; assay of proteins; and monoclonal antibody preparation.

ZymoGenetics, Inc. offers a research-oriented atmosphere, intellectual challenge and modern facilities. Seattle’s beautiful surroundings, reasonable cost of living, and lively cultural activities are further incentives to relocate. Salary is commensurate with experience and ZymoGenetics offers full benefits including a tuition reimbursement program in our compensation package. Please send a detailed resume of your work experience and academic background, as well as the names and addresses of three references to: Laura Castellano, ZymoGenetics, Inc. 4225 Roosevelt Way NE, Seattle, WA 98105, (206) 547-8080. Equal Opportunity Employer.

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**Colgate-Palmolive**

**GROUP LEADER TOXICOLOGY**

The Colgate-Palmolive Company's Medical Department currently seeks an experienced professional to join its Pharmacology/Toxicology staff as a GROUP LEADER.

Major responsibilities include leading a team of professionals to provide data support for the safety of Colgate-Palmolive products, and for systems on data storage, analysis, and retrieval.

To qualify, an individual must have a Ph.D. in one of the following: Pharmacology, Toxicology, Biochemistry, or Physiology. Five years experience in toxicology-risk assessment in a regulatory environment, computer systems, and excellent verbal and written communication skills.

The Corporate Technology Center is located on an 80-acre campus in suburban Central New Jersey, near Rutgers and Princeton Universities, and one hour from Manhattan.

For immediate consideration, please forward resume with salary history, in confidence to: Mr. Ron Thomas, Human Resources Dept. MS/SM-24, 909 River Road, Piscataway, NJ 08854.

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American Red Cross
EXPANDING OPPORTUNITIES IN ENVIRONMENTAL/HEALTH SCIENCES

Since 1936, IITRI has been a leading independent, not-for-profit contract research organization. We seek unique individuals for the following positions:

SENIOR VICE PRESIDENT, APPLIED SCIENCES

Reporting directly to the President, the Senior Vice President will be responsible for directing chemistry, chemical engineering, environmental sciences, petroleum, energy research, life sciences, explosion/hazard analysis, and manufacturing technology activities. Ph.D. in physical/biological sciences or engineering required; 10-15 years’ experience in a research environment of which 5-10 years were in mid- or upper-level management resulting in a proven track record in technical management and organization. Exceptional communication skills, demonstrated leadership in meeting financial goals and motivational abilities complete the desired profile.

DIRECTOR, CHEMISTRY & CHEMICAL ENGINEERING

The Director, reporting to the Senior Vice President, will manage and lead technical staff involved in analytical chemistry, polymer and organic research, plant plant studies, and environmental sciences. Ph.D. in chemistry or chemical engineering required; plus 8-10 years’ experience in a research environment. Experience will include management responsibilities resulting in a progressive growth record in organization and management of high technology activities.

Both of these positions require U.S. citizenship.

Receipt of your credentials will indicate interest in these positions. Submit to: Ms. L. Amst, Sr. Personnel Representative, Dept. EHSILA, IIT Research Institute, 10 West 35th Street, Chicago, Illinois 60616. Equal Opportunity/Affirmative Action Employer.

PROTEIN CHEMIST

The Worcester Foundation is seeking an experienced protein chemist to be the primary operator of a Protein Chemistry Facility now being established. This core facility will be equipped to provide protein sequencing, peptide synthesis, amino acid analysis and peptide mapping services to our faculty. The position offers the opportunity to contribute to a diverse set of projects studying protein structure and function, including cytoskeletal proteins, receptors, signal transduction proteins, mammalian pheromones and several enzyme systems and proteins found in the nervous and male reproductive systems. Applicants should have extensive protein chemistry experience and some familiarity with a gas-phase sequencer and peptide synthesizer. Salary and level of appointment of this non-faculty position will be commensurate with experience.

The Worcester Foundation is a non-profit, basic research institute located on a 100 acre wooded campus 40 miles west of Boston. Send curriculum vitae, a statement of career objective and three letters of reference to Protein Chemist, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545 USA.

AN EQUAL OPPORTUNITY/AFIRMATIVE ACTION EMPLOYER M/F/H

As the 1985 joint venture between Corning Glass Works and Ciba Geigy Ltd., Ciba Corning Diagnostics Corp. is recognized as a world leader in the medical diagnostics and biomedical research fields.

PROJECT MANAGER - CONTROLS RESEARCH & DEVELOPMENT

We are looking for a person who can manage R&D projects in our controls business in Irvine, CA facility. The successful candidate should have good skills in project planning and tracking, as well as the ability to plan and manage meetings. Also, this person should have excellent people skills and be assertive, in addition to being able to work relatively unsupervised toward a goal of transferring a completed R&D project into manufacturing.

Experience in the Clinical Chemistry Controls or Reagent business is essential for success in this position.

Excellent starting salaries and benefits. Reply with resume, in confidence, to the Human Resources Dept., Ciba Corning Diagnostics Corp., 63 North Street, Medfield, MA 02052.

Ciba Corning Diagnostics Corp. is an equal opportunity employer. M/F/H/W.

CIBA-CORNING

Ciba Corning Diagnostics Corp.

MERRELL DOW RESEARCH INSTITUTE

STRASBOURG CENTER

has an opening for a Molecular Virologist

We are seeking an independent scientist (Ph.D. + 3 years post-doctorate) with a demonstrated expertise in the molecular biology of retroviruses. The successful candidate will be expected to initiate a basic research program that will investigate viral-encoded proteins as targets for antiviral drug design. Integrating within a multidisciplinary team of scientists focusing on signal transduction, the virologist will have abundant opportunities for scientific collaborations with molecular biologists, immunologists, protein and medicinal chemists, and pharmacologists. The scientist selected for this opening will immediately occupy an important role in the development of the biological sciences program at MDRI, Strasbourg. Knowledge of French is desirable, but not a requirement for this position.

Applicants should send a curriculum vitae and three letters of references to Mrs. M.J. Bildstein Director of Personnel Services, Merrell Dow Research Institute 16, rue d'Ankara F-67084 STRASBOURG Cedex - France.
MOLECULAR BIOLOGY

The Human Genome project at the Los Alamos National Laboratory is seeking a Molecular Biologist to work as a team member on theoretical problems of mapping and sequencing the human genome. Will analyze strategies for ordering DNA fragments to obtain physical maps of human chromosomes and develop and apply computer programs for ordering sets of partially characterized fragments. Must work closely with experimental molecular biologists responsible for physical mapping. Expected to conduct theoretical research independently and/or with others on genome problems such as automatic organization and annotation of genetic database patterns and pattern recognition in sequences.

The successful applicant will be expected to have a Ph.D. in Molecular Biology or equivalent combination of training and experience, Ph.D. in Physical or Computer Science together with detailed knowledge of molecular biology considered. Research experience with publications in molecular biology, experience in programming for scientific computation, and good oral and written communication skills desired.

To formally apply send resume, employment application, three letters of reference and graduate/undergraduate transcripts to Richard Garcia (MS P280) Personnel Services Division 80113-AC, Los Alamos National Laboratory, Los Alamos, New Mexico 87545. For additional information contact Karl Sirotkin, T-10, MS K710, (505) 665-0839.

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DIAGNOSTICS RESEARCH

BURROUGHS WELLCOME CO., a leader in the research, development and manufacture of pharmaceuticals, has openings for a Trials Coordinator and a Research Scientist in the Diagnostics Research Section at their Research Triangle Park, North Carolina facility.

Scientific Evaluation Trials Coordinator—Diagnositics

This individual will be responsible for designing and monitoring clinical trials for in vitro diagnostics products. Requirements include a Ph.D. in microbiology or related field with a minimum of one year’s experience in commercial development of in vitro diagnostic products or Master’s degree with five years’ experience in product development and the management of diagnostic trials or equivalence in training and experience. Familiarity with hepatitis and retrovirus diagnostic or screening tests is essential. Also, experience with immunoassay methodologies involving enzyme immunoassay and latex agglutination is highly desirable. Knowledge of study design, statistics and device regulations is useful.

Diagnostics Research Scientist

The primary responsibility in this position will be to develop in vitro diagnostic enzyme-immunoassays to retroviruses. The successful candidate will have a Ph.D. or equivalent experience/training in virology, microbiology, or related field or a Master’s degree with a minimum of five years’ experience as above. Experience with retroviruses and recombinant DNA technology are highly desirable.

BURROUGHS WELLCOME CO. offers some of the best benefits in the industry, salaries commensurate with ability, and a stimulating work environment. Qualified minority, female, veteran and handicapped individuals are encouraged to apply. To apply, submit curriculum vitae, specifying position, to: Employment Office, Burroughs Wellcome Co., 3036 Cornwallis Rd., Research Triangle Park, NC 27709.
Vacancy Announcement
National Institute of Neurological and Communicative Disorders and Stroke

National Institutes of Health
Public Health Service
Department of Health and Human Services

The National Institute of Neurological and Communicative Disorders and Stroke (NINCDS), National Institutes of Health (NIH), Public Health Service (PHS), invites nominations and applications for the position of Chief, Neuroepidemiology Branch. This is a Senior Executive Service position with a salary range of $64,700 to $73,400 per annum. The individual selected may be eligible for a Physician's Comparability Allowance ranging from $5,000 up to $20,000. The position is located in Bethesda, Maryland.

The Chief, Neuroepidemiology Branch provides technical and administrative direction and leadership to the Institute's epidemiological program and service as the focal point within the Federal sector, the scientific community, and the public for these activities.

Candidates must meet minimum educational requirement for Medical Officer, GS-622 (or equivalent combination of experience and training), as defined by the U.S. Office of Personnel Management Handbook X-118, Qualification Standards for Positions under the General Schedule. This information is available in Federal Personnel Offices and Federal Job Information Centers. Further information about qualifications can be obtained by contacting Mr. Clifford Schein on (301) 496-6334. Information regarding the position can be obtained by contacting Dr. Mark Hallett on (301) 496-1561. An application for Federal Employment (Form SF-171), accompanied by a current curriculum vitae and bibliography should be submitted to Mr. Clifford Schein, NINCDS Personnel Office, National Institutes of Health, Building 31, Room 6A23, 9000 Rockville Pike, Bethesda, MD. 20892.

Applications Must Be Postmarked No Later Than July 1, 1988.

All qualified candidates will receive consideration without regard to race, religion, color, sex, age, national origin, lawful political affiliation, marital status, union membership, or any nondisqualifying physical or mental handicap.

U.S. citizenship required.
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Using your PhD and minimum 0-3 years' experience, you will contribute to the study of solid tumors in animal models and the evaluation of anti-tumor compounds. A background in the development of transgenic mice is preferred.

Senior Scientist—Molecular Biology
You will establish and implement a program involving the control of oncogene expression at the transcriptional and post-transcriptional levels. A PhD and at least 0-3 years' mammalian gene regulation experience are required.

Senior Scientist—Cell Biology/Biochemistry
You'll assume responsibility for defining targets for anti-tumor drug intervention and developing drug screening programs. A PhD and minimum 0-3 years' experience in the biomedicinal mechanisms of oncogene action are essential.

Associate/Assistant Scientist—Immunology/Molecular Biology/Cell Biology
Strengthen your experience in recombinant DNA techniques and/or the production of monoclonal and polyclonal antibodies. These positions, which require a BS/MS, will allow you to contribute to research concerning the mechanism of oncogene action.

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RESEARCH ANIMAL GENETICIST

The U.S. Department of Agriculture, Agricultural Research Service, Regional Poultry Research Laboratory, East Lansing, MI invites applications for a position from animal geneticists with experience in virology and molecular biology. The incumbent is expected to take the lead in a team effort to further develop methods for preventing transgenic hickockness using avian retroviral vectors, and develop a long range research program aimed at the transfer of genes controlling immune response and disease resistance. Experience in the genetic modification of domestic animals is desirable. A Ph.D. or equivalent, and knowledge of animal genetics required. Beginning date: $39,501 (GS-12/13), depending on qualifications. For information on the position, contact: Dr. R. L. Witter, USDARARS/PRRL, 3606 East Michigan Avenue, East Lansing, MI 48823. Telephone: 517-357-6828. For information on application procedures contact: Barbara Lamm, USDA/ARS Personnel Operations Branch, Northern Section, 11125 J. L. Way, Department of Pharmacology, Texas A & M University Medical Sciences Building, College Station, TX 77843. Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Position available for a biochemist in the Department of Ophthalmology, Baylor College of Medicine. The position involves research in the general area of lens metabolism. Applicants should have a Ph.D. and at least 2 years of postdoctoral experience. Familiarity with enzymology, HPLC, immunochemistry, and immunological techniques would be helpful. Salary and rank commensurate with experience. Send curriculum vitae and a brief statement of research interests to: Dr. John K. Wolfe, Howe Laboratory of Ophthalmology, Massachusetts Eye & Ear Infirmary, Boston, MA 02114. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE/Pharmacology-biochemistry positions available immediately for investigation of enzymes encapsulated into cationic erythrocytes for drug interaction studies. Experience with enzyme purification and characterization essential. No experience in drug carrier systems necessary. Send curriculum vitae and three references to: Dr. J. L. Way, Department of Pharmacology, Texas A & M University Medical Sciences Building, College Station, TX 77843. Equal Opportunity/Affirmative Action.

RESEARCH POSITION—Environmental microbiology, 2-year contract position to conduct research on the physiology and use of autotrophic (i.e., hydrogen oxidizing) bacteria in anoxic sediments for recovering nirvin from contaminated groundwater. Applicants should have a Ph.D. or M.S. degree in environmental microbiology or a closely related discipline and extensive experience with denitrifying bacteria. Research will focus on the isolation, physiological characterization, and activity of autotrophic denitrifying bacteria in experimental bioreactors. Starting date for position is 1 August 1988. Salary: $29,172 per year plus complete benefit package. Submit curriculum vitae and three letters of recommendation by 1 July 1988 to: Personnel Depart- ment, Orange County Water District, P.O. Box 8300, Fountain Valley, CA 92728-8300.

SCIENTIFIC DIRECTOR

RETROVIRUS RESEARCH CENTER

The Baltimore VA Medical Center and University of Maryland at Baltimore are seeking an academic leader to serve as the Scientific Director of the Retrovirus Research Center. The VA generally funded center has programs in viral pathogenesis, immunology, and anti-viral pharmacology. Candidates should have a Ph.D. with a strong background in animal or human molecular retrovirology and should be at present or full professor level. Laboratory space and start-up support will be provided through the KRC programs. A competitive salary based upon qualifications and experience is offered.

Send curriculum vitae and name and address of three references to: Paul M. Hoffman, M.D., Associate Chief of Staff for Research and Development (151), VA Medical Center, 3900 Loch Raven Boulevard, Baltimore, MD 21215. The Veterans Administration and University of Maryland are Equal Opportunity Employers.

POSITIONS OPEN

SCIENCE WRITER with capability to translate biological, psychological, and social scientific materials into forms useful to service providers, policymakers, and the general public. Must demonstrate successful experience in grant writing and ability to bring professionals from different fields together to prepare grant submissions. Salary in mid-$30's; competitive benefit package. Submit resume with relevant supporting documentation to: P.O. Box 897, Buffalo, NY 14209. Affirmative Action/Equal Opportunity Employer.

CIITT STAFF SCIENTIST

The Chemical Industry Institute of Toxicology (CIITT), an innovative leader in toxicology research, is seeking an individual to coordinate and develop the toxicology program for the lung. The successful candidate will establish an independent research program to elucidate the cellular and molecular mechanisms involved in chemical induction of respiratory injury and/or neoplasms. Multidisciplinary collaborative support is available in the areas of pathology, inhalation exposure, cell culture, and molecular biology.

Applicants should have a Ph.D. in biochemistry, cell biology, molecular biology, or related discipline, and several years of postdoctoral research experience. Please send complete resume to: Employment Office, CIITT, P.O. Box 12137, Research Triangle Park, NC 27709. An Equal Opportunity/Affirmative Action Employer.

JPL/NASA VISITING SENIOR SCIENTIST OFFICE OF EXPLORATION SCIENCE ADVISER

The Jet Propulsion Laboratory is seeking candidates with outstanding professional attainment in one of the following fields of space science: planetary science, astrophysics, space physics, or space life sciences. The Office of Exploration (OEXP) at NASA Headquarters has been formed to develop strategies and implementation plans for human space exploration missions, consistent with the goal of extending human activities beyond Earth orbit, as expressed in the recently issued national space policy. The visiting senior scientist would have a major role in the development of the science content of human exploration missions. The duties would include advising the Assistant Administrator for the OEXP on science opportunities and issues in the exploration program; providing the principal scientific advice to NASA's Office of Space Science and Applications; and representing the OEXP science potential and programs to the scien
community. Applicants must have been with the preferred choice although qualified individuals from non-profit research institutions may also be considered. This position is open for immediate filling. Normal assignment in the Visiting Senior Scientist Program does not exceed 2 years. Appointees must be U.S. Citizens or Permanent Residents, and are expected to return to their home institution following the NASA assignment. Please provide curriculum vitae, bibliography and the names of four references to:

Dr. Harry Ashkenaz 180-900
Department U67
Jet Propulsion Laboratory
4800 Oak Grove Drive
Pasadena, CA 91103
Telephone: 818-354-8251
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FELLOWSHIPS

POSTDOCTORAL FELLOWSHIP (Microbiology) in the Ocular Microbiology Laboratory, Department of Pathology, University of Michigan. Opportunity for motivated individual with Ph.D. in microbiology or infectious disease, to be involved in NIH and privately funded studies of the biology and pharmacology of Acanthamoeba. Please send curriculum vitae and names of three references to: K. B. Wilhelmus, M.D., Colleen Eye Institute, One Baylor Plaza, Houston, TX 77030.

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ON THE MAILLARD REACTION IN AGING, DIABETES, AND NUTRITION

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FELLOWSHIPS

LA TROBE UNIVERSITY

AUSTRALIA

La Trobe University RESEARCH FELLOWSHIPS

The University is offering postdoctoral research fellowships in any discipline of the University and applications are invited from persons who have gained doctoral or equivalent qualifications within the last 5 years. A person who currently holds a permanent appointment is not eligible to apply.

The proposed research project must be in collaboration with a current University researcher and must complement the existing research work.

Fellowships, which will be awarded for a period of 24 months, are intended to advance the research activities of the University by bringing to or retaining in Australia promising scholars.

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Enquiries should briefly indicate the research discipline of interest to them. The closing date for applications is 30 September 1988. For further information, write to: The Staff Officer, La Trobe University, Bundoora, Victoria, 3083, Australia.

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