POSITIONS OPEN

Biological Department, Viterbo College, has opening for tenure-track position: ASSISTANT PROFESSOR, Ph.D. Prefer experience teaching microbiology, biochemistry, and immunology. Deadline: 10 May 1991. Send application, in complete letter of reference, undergraduate/graduate transcripts, and one-page statement of teaching/research interests to: Dr. Linda Laidlaw, Biology Department, Viterbo College, 815 S 9th South Street, La Crosse, WI 54601. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR (GROWTH/DEVELOPMENT). The Department of Animal Sciences, University of Illinois at Urbana-Champaign (UIUC), invites applications for an assistant professor (tenure track) in the area of growth and development (available 1 July 1991). The candidate will be expected to develop a strong research program in growth and development associated with one or more of the following areas: the candidate will be expected to direct the research of graduate students and to teach classes for both undergraduate and graduate students. Interactions with existing programs in lactation, gene mapping, muscle biology, transgenesis, nutrition, environmental physiology, and embryology will be encouraged. Qualifications include a Ph.D. in animal sciences, cell biology, or related field with specialized training in growth and development, lactation biology, endocrinology, genetics, or molecular biology. Postdoctoral experience will be a plus. Send curriculum vitae and letter of interest to: D. R. Crompton, Head, Department of Animal Sciences, 1300 West Gregory Drive, University of Illinois, Urbana, IL 61801. Telephone: 217-333-3462. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF MIAMI SCHOOL OF MEDICINE (UMSM) DEPARTMENT OF NEUROLOGY NEUROVirologist

Applications are invited from M.D. or Ph.D. neurovirologist for the position of ASSISTANT PROFESSOR, level to direct the new neurovirology section of the Department of Neurology. Tenure decisions will be based upon candidate’s qualifications. AVMC position may be available. Applicants should have an established laboratory research program in neurovirology, preferably concentrating on retroviruses. M.D.’s must be Board-eligible/certified, and eligible for a Florida Medical License. This is an exciting growth position in a department with extensive existing neuroscience research programs, including clinical, and Neuropsychiatry Program. Collaborative opportunities in UMSM are excellent, with extensive research groups in virology, immunology, and neurology.

Applications with curriculum vitae, names of three references, and copies of five recent publications to: Walter G. Nussbaum, Ph.D., Professor and Chairman, University of Miami School of Medicine, Department of Neurology (D4-S), P.O. Box 016960, Miami, FL 33101. The University of Miami is an Equal Opportunity/Affirmative Action Employer.

VISITING ASSISTANT PROFESSOR AVIAN ECOLOGY

One-year sabbatical replacement, Division of Biological Sciences, University of Montana. Ph.D. required. Teaching experience desirable. Responsibilities include: (i) lower-division, nonmajors course in Montanta wildlife, (ii) participation in upper-division animal ecology course, (iii) ornithology, and (iv) graduate-level course in behavioral ecology. Deadline for receipt of curriculum vitae, official transcripts, and three letters of recommendation is 3 May 1991. Send to: Chairman, Animal Ecology Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Affirmative Action/Equal Opportunity Employer.

PROTEIN CHEMIST, RESEARCH: ASSISTANT PROFESSOR. Available immediately. The laboratory of chairperson of state in 1971 to study abnormal proteins in Alzheimer's disease, other neurodegenerative diseases, and experimental models. Experience in protein purification and protein sequencing desirable. Teaching responsibilities optional. Send resume to: Piertiugi Gambetti, M.D., Division of Neuropathology, Institute of Neuropathology, Case Western Reserve University (CWRU), 2085 Adelbert Road, Cleveland, OH 44106. CWRU is an Equal Opportunity/Affirmative Action Employer.
PLANT BIOLOGISTS. The Department of Horticultural Sciences at Texas A&M University intends to add expertise in molecular biology to an outstanding corps of applied and fundamental plant scientists. Three tenure-track positions, plant molecular genetics, postharvest biology, and horticultural products biology, will be filled at the ASSISTANT PROFESSOR level. Individuals will be encouraged to conduct research programs targeted at fundamental questions, teach graduate and advanced undergraduate courses in their areas of expertise, advise graduate students and postdoctoral associates, and establish and administer aggressive extramural grants programs. Cooperative programs with faculty and research scientists within the department, in other departments on campus, and at off campus research stations will be encouraged. Candidates must have earned Ph.D. degrees in horticulture, plant pathology, genetics, biochemistry, molecular biology, food science, or related fields as appropriate to the position sought. Applicants should submit resumes, official transcripts, and request that three letters of recommendation be sent to: Dr. J. Daniel Lineberger, Department of Horticultural Sciences, Texas A&M University, College Station, TX 77843-2111. Information concerning the positions may be obtained by writing to the above address or calling 409-845-2500 (FAX: 409-845-0627). The deadline for applications is 15 June 1991, or until suitable candidates are found. Texas A&M University is an Equal Opportunity/Affirmative Action Employer.

LABORATORY ANIMAL SCIENCE. The American Association for Laboratory Animal Science (AALAS) seeks a distinguished professional to serve as EDITOR-in-Chief of the association’s journal, Laboratory Animal Science. Applicants must be currently active in the field. Additional qualifications include: a significant record of published research in the field of laboratory animal science and comparative medicine; organizational and teamwork skills; tact and judgment. Editorial experience desirable, but not necessary. Submit resumes by 1 June 1991 to: Chairman, LAS Editorial Board, AALAS, 100 Timber Creek Drive Suite #5, Cordova, TN 38018.

SCIENTIFIC DIRECTOR-VIROLOGY

Franciscan Shared Laboratory, Inc., an independent clinical laboratory serving the greater Milwaukee area, has an immediate opening for a highly motivated clinical virologist to direct our diagnostic virology laboratory. Candidates must possess advanced degree (Ph.D. preferred) in microbiology or virology, with at least 5 years of management experience and a background in diagnostic virology laboratory. Experience/knowledge in molecular virology desirable. Selected candidate will be active in research and development, education of medical technologists, medical students and residents, and marketing the services of the department. Qualified applicants should submit resume and salary requirements in confidence to: Robert A. Braun, Personnel Manager, Franciscan Shared Laboratory, Inc., 11020 West Plank Court Suite 100, Wauwatosa, WI 53226.

FACULTY POSITIONS IN MOLECULAR BIOLOGY

AND MOLECULAR PHARMACOLOGY

The Department of Pharmacology and Molecular Biology at The Chicago Medical School is initiating the third phase of faculty recruitment for tenure-track positions at the level of SENIOR ASSISTANT/ASSOCIATE PROFESSOR. Preference will be given to applicants with established independent research programs in any aspect of gene expression and molecular pharmacology. The school is located in a modern facility adjacent to the very pleasant North Shore community of Wilmette, Illinois, and cultural attractions of Lake Bluff, 38 miles from downtown Chicago and yet easily accessible by car or train. Applicants must have a Ph.D., M.D., or Ph.D./M.D. and substantial financial support are available. Salary, start-up funds, and other benefits highly competitive. Please send curriculum vitae, research plans, and the names for reference to: Dr. Samson T. Jacob, Chairman, Department of Pharmacology and Molecular Biology, The Chicago Medical School, 5333 Grasmere Road, North Chicago, IL 60064. The Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.

DIABETES RESEARCH

FIBRINOLYSIS RESEARCH

RADIOIMMUNOLOGY RESEARCH

Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our extensive research efforts in the areas of cardiovascular, infectious and metabolic diseases. This expansion has created several exceptional opportunities for Senior Scientists in the following areas:

SR. MOLECULAR BIOLOGIST - Design and refine antibody-enzyme hybrids that bind to thrombi and promote experimental thrombolysis. Requires postdoctoral or industrial experience in protein cloning and expression, preferably enzymes or antibody fragments in eukaryotic cells. Reply to Dept. 212A.

SR. BIOLOGIST - Initiate a vigorous research program into the cellular aspects of thrombolysis. Your background should reflect a quantitative protein chemical approach to biology with a clear appreciation of molecular biology techniques. Reply to Dept. 212B.

POSTDOCTORAL FELLOWS - Positions are available in support of the programs mentioned above. Reply to Dept. 212C.

SR. INVESTIGATOR - Provide leadership to establish a substantial research effort encompassing the molecular and cellular aspects of diabetes mellitus with an emphasis on the cellular actions of insulin. Areas of interest include the actions of the insulin receptor, second messengers involved in regulating cellular energy metabolism, and the mechanisms involved in insulin resistance. Reply to Dept. 212D.

Candidates for the above positions should possess a Ph.D. level degree and a minimum of 5 years relevant experience.

SR. INVESTIGATOR to lead a project involving the identification and radiolabeling of monoclonal antibodies which can be directed towards the Major Histocompatibility Complex antigen. Requirements include a Ph.D. in Biochemistry (or equivalent) with 6-8 years in a related field, which must include experience in radiolabeling (99mTc, 111In, 125I, and/or 131I). A background in surgical procedures is a must. The successful candidate will be stationed at Massachusetts General Hospital for 6-9 months prior to relocating back to New Jersey. Reply to Dept. 212E.

We offer a competitive salary and benefits package. For consideration, please forward your resume (including Dept. Code #) to: Bristol-Myers Squibb Pharmaceutical Research Institute, Human Resources Department, P.O. Box 4000, Princeton, NJ 08543-4000. An Equal Opportunity Employer.

Bristol-Myers Squibb Company
THE ROCKEFELLER UNIVERSITY

Invites applications for appointments to ASSISTANT PROFESSOR and HEAD OF LABORATORY IN MEDICAL SCIENCES. Candidates should have an independent, research-oriented, or teaching-oriented background and anticipate a career in the medical sciences including possible studies in patients. The Rockefeller University is an Equal Opportunity Employer. Women and minorities are urged to apply. Address responses to:

Dr. Jan L. Breslow
Search Committee in Medical Sciences
The Rockefeller University
1230 York Avenue, Box H32
New York, NY 10021-6999

UNIVERSITY OF MIAMI

SCHOOL OF MEDICINE (UMSM)

DEPARTMENT OF NEUROLOGY

MOLECULAR NEUROBIOLOGIST

Applications are invited from M.D. or Ph.D. molecular biologists and molecular geneticists at the ASSISTANT, ASSOCIATE or ASSOCIATE PROFESSOR level, interested in neurodegenerative disorders and related topics. The primary focus will be on identifying disease mechanisms and developing novel therapeutic strategies. Applicants should have a demonstrated record of research accomplishments and have a commitment to excellence in teaching and mentorship. Tenure decisions will be based on candidate’s qualifications. M.D.’s must be Board-eligible/certified and eligible for licensure in the state of Florida. Applications are available in detailed in the attached position advertisement. Applicants should submit a curriculum vitae, a brief statement outlining research accomplishments and goals, and three letters of recommendation to: Dr. William Butters, M.D., Ph.D., Department of Neurology, 11205 SW 7 Street, Miami, FL 33174-9260. The University of Miami is an Equal Opportunity/Affirmative Action Employer. E.O.E.

INSTRUCTIONAL COORDINATOR
BIOTECHNOLOGY PROGRAM

Appointment: ASSISTANT PROFESSOR, 12-month, tenure-track position.

Responsibilities: Principal duties will involve teaching and coordinating the biotechnology summer program, including extensive preparation prior to and following the formal instructional interval. During the academic year, the successful candidate will assist in the management of the Honors Program of the College of Agriculture and Life Sciences and participate in the scholarly activities of a department that is dedicated to the individual’s training and experience, in the college.

Qualifications: Ph.D. in molecular genetics, microbiology, biotechnology, or related field, research experience in the techniques of modern cellular and molecular biology, and teaching experience in the modern techniques of biotechnology are expected. A strong commitment to excellence in undergraduate education, academic advising as well as the ability to work effectively as a member of coordinated instructional team are also essential.

Starting date: 15 August 1991.

Application procedure: Applicants should send: curriculum vitae, names of three references to: Personnel Office, Box 54PAO, Woods Hole Oceanographic Institution, P.O. Box 517, Woods Hole, MA 02543. Applications received by April 1, 1991 will receive priority consideration.

Woods Hole Oceanographic Institution is an Equal Opportunity/Affirmative Action Employer.

FREE PRODUCT INFORMATION SERVICE

Send a letter stating your interest in our new laboratory and Science and we will put you in touch with the vendors whose products you will need. Write to: SCIENCE New Lab Service Department, 1515 Broadway, New York, NY 10036.
A TIME FOR ACHIEVEMENT

The opening of Glaxo Inc.'s $350 million Research Institute in Research Triangle Park, NC represents a monumental commitment in the pharmaceutical industry to the discovery of drugs for unmet patient needs. Scientists engaged in Glaxo's expanding research and development programs at the Center have a premier facility in which to work.

We are presently seeking highly motivated individuals for challenging opportunities in the area of Drug Discovery. Selected candidates will work with basic research scientists in search of novel therapeutic approaches to the treatment of proliferative, inflammatory and metabolic diseases.

If you have the experience and ability to build teams in tumor and transgenic biology, you'll want to investigate these openings:

GROUP LEADER
Tumor Biology

The ideal candidate will have a research record in cancer biology that includes the development and use of in vivo tumor models to evaluate chemotherapeutic agents for solid tumors and metastases. We require and will support a team leader and innovator who can not only establish a full range of current models, but also develop more relevant models for the important processes of tumor growth, metastasis and angiogenesis. This person will be expected to facilitate evaluation of ongoing projects as well as to propose and establish novel avenues for the discovery of new antineoplastic agents. This individual will have worked at the cutting edge of cancer biology and should have contributed to the current understanding of cellular and molecular targets for anticancer drug discovery. Specific job requirements include a Ph.D., D.V.M. or M.D. Degree with 5-7 years of relevant experience.

Please refer to Job #9116B502-SC on all resumes.

ASSOCIATE SCIENTISTS
Tumor Biology

Associate Scientists (3-5) are required to be part of these research efforts. These candidates should have 1-5 years of experience in implanting xenograft and homograft tumors in vivo and/or tissue culture skills for preparing tumor cell lines. The ability to work with other scientists in a team effort and the confidence to function with minimal supervision are valued traits. Good organizational skills and work habits are essential. Specific job requirements include a Bachelor's Degree and 1-5 years of relevant hands-on experience with in vivo tumor models.

Please refer to Job #9116B500-SC on all resumes.

Glaxo Inc.
SmithKline Beecham, a world leader in pharmaceutical research, has two positions available for accomplished scientists to act as a liaison between Information Sciences and the Clinical and Drug Discovery departments, respectively.

Responsibilities will include the identification of current and potential computing requirements for assigned client group and the direction and implementation of major computing projects to ensure relevant designs, adequate resources, timelines, and appropriate priority. The scientists will also serve as consultants on R & D-wide strategic computing directions, and will co-operate with Information Sciences staff to coordinate the implementation of strategies across all R & D areas.

Requirements for the Liaison to the Drug Discovery Group include a Ph.D. or MS in Physical, Biological, Chemical or Computer Science with extensive research experience and a minimum of four years experience in laboratory research and computing with a proven record of achievement in both disciplines.

Requirements for the Liaison to the Clinical Department include an advanced degree in Physical, Biological, Chemical or Computer Science and a minimum of 4 years experience with the clinical development process and large scale database development. Familiarity with world-wide Regulatory issues, including preparation of submission dossiers, required. Excellent communication skills are necessary in both positions.

SmithKline Beecham's state-of-the-art research facility is located in suburban Philadelphia, PA. We offer a competitive salary, benefits, and relocation package. For confidential consideration, submit your C.V. to: T. Gallagher, Senior Employment Administrator, G0169, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. EOE, M/F/H/V.

**DEAN OF MINES AND EARTH SCIENCES**

University of Utah
Salt Lake City, Utah

The University of Utah invites applications and nominations for the position of Dean of the College of Mines and Earth Sciences.

The Dean reports to the Academic Vice President and is a member of the University’s Council of Academic Deans. The Dean is responsible for administering an annual budget in excess of $9,700,000 including approximately $6,350,000 in externally funded research.

The College consists of five academic departments: Fuels Engineering, Geology and Geophysics, Metallurgical Engineering, Meteorology, and Mining Engineering. In addition, the College houses the Generic Mineral Technology Center in Commination, the Utah Mining and Minerals Resources Research Institute, and the University Seismograph Stations. The University of Utah is a member of the University Corporation for Atmospheric Research (UCAR) and Incorporated Research Institutes for Seismology (IRIS).

The College has 51 academic faculty members involved in teaching and research in the earth sciences and minerals engineering disciplines. Ties with departments in the Colleges of Business, Engineering and Science are fostered by joint degree programs and collaborative research.

Applicants must have an earned doctorate, a commitment to teaching, an outstanding record in research, demonstrated administrative skills, and scholarly credentials to qualify for a faculty appointment in one of the departments of the college.

Initial screening of applicants and nominations will begin April 1, 1991 and continue until the position is filled. Applicants should send a statement of interest, a current curriculum vitae, and the names of five references to: Dean Kay L. Dea; Chair, Search Committee for the Dean of Mines and Earth Sciences, Graduate School of Social Work, University of Utah, Salt Lake City, Utah 84112-1183.

The University of Utah is the flagship institution of the state’s higher education system and represents a major academic focus for the entire Intermountain Region of the western United States. It is composed of fifteen colleges and professional schools, and enrolls approximately 19,000 undergraduate and 4,500 graduate students.

The University of Utah is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

**FACULTY POSITIONS IN BIOCHEMISTRY and CELL BIOLOGY**

St. Jude Children’s Research Hospital

St. Jude Children’s Research Hospital, a private research institute, is engaged in a major expansion of its facilities and scientific activities. A new research building to be completed in early 1991 will provide 240,000 square feet of new laboratory space which will house the institute’s basic science programs. As part of this expansion, new faculty positions are now available in the Departments of Biochemistry and Cell Biology. Although preference will be given to applicants who have recently completed postdoctoral training and are seeking positions at the level of Assistant Member, more senior investigators with appropriate research interests and qualifications will be considered for positions of higher faculty rank. Candidates with programs focusing on the regulation of cell growth, differentiation and transformation, the biochemistry and molecular biology of signal transduction, and mechanisms of gene regulation are particularly encouraged to apply. Opportunities exist for collaborative interactions with ongoing basic research programs in Virology and Molecular Biology, Immunology, and Pharmacology, as well as with clinical investigators in Hematology/Oncology and Infectious Diseases. In addition to new facilities and excellent start-up funds, salaries are nationally competitive and include a generous benefits package. A strong institutional commitment to its faculty ensures stability in program development and continuity of research activities.

Applicants should submit a curriculum vitae, a letter summarizing their research accomplishments and goals, and the names of three references to either:

Dr. James N. Ihle
or
Dr. Charles Sherr
St. Jude Children’s Research Hospital
332 N. Lauderdale
Memphis, TN 38105 USA

SIGN IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER
The Division of AIDS of the National Institute of Allergy & Infectious Diseases is seeking senior level scientists in Virology and Pharmacology for the Clinical Sciences Section of its Treatment Research Program (TRP).

The Treatment Research Program plans and directs a major extramural research program that examines and evaluates potential therapeutic interventions for HIV disease and its related conditions in clinical trials. The Clinical Sciences Section functions as the primary scientific resource for the TRP, providing comprehensive guidance and expert leadership in immunology, virology and pharmacology by defining the clinical research agendas of the Immunology, Virology, and Pharmacology Committees of the AIDS Clinical Trials Group, developing and initiating innovative extramural research to support the clinical trials, providing direction and oversight for the quality assurance of immunologic, virologic and pharmacologic study parameters, and serving as scientific liaison with academic and industry-based investigators.

Candidates must have a PhD, with postdoctoral experience in biomedical research and direct experience using a wide variety of virologic or pharmacologic assays, data analysis techniques, knowledge of HIV disease and its associated opportunistic infections and malignancies, and research project administration. U.S. citizenship required. Please send a curriculum vitae to:

Dr. Jon Kagen
6003 Executive Boulevard
Room 212N
Rockville, MD 20892
(301) 496-0700

NIH is an Equal Opportunity Employer

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**Make A Difference In The Quality of Life**

The Hyland Division of Baxter Healthcare, a leader in the area of human plasma-derived protein therapeutics, is undertaking the development of its next generation of therapeutics with the aid of state-of-the-art biotechnology. We seek energetic individuals who can contribute effectively in a multi-disciplinary R&D environment in the following areas:

**SCIENTIST IV**

**Process Analysis (Dept. LD/PA4)**

We seek an individual to design, conduct and oversee experiments relating to assay development, assay validation and process validation, plus analyze data and prepare reports. In addition, this individual will review literature and provide support to product claims as well as IND and PLA submission. We require a PhD degree in biochemistry or a related field. Background should include protein purification and assay development relating to chemical, biochemical and immunological assay systems. Knowledge of cell culture and hybridoma technology essential. Computer literacy, experimental design and/or statistical analysis experience desirable.

**SCIENTIST IV**

**Efficacy (Dept. LD/E4)**

Duties will include literature review, model evaluation, development and adaptation of in vivo and in vitro cell culture systems in support of research projects at various stages of product development. This individual will independently design, perform and evaluate relevant safety and efficacy studies in animal and cell culture systems. A PhD in physiology, toxicology or related science is required, plus a strong background in pharmacology, microbiology, immunology, and biochemistry. Experience in performance of safety and efficacy studies in animals and cell culture systems is essential. Applicants must also possess strong organizational skills, excellent oral and written communication abilities, and have experience with experimental design and statistical analysis.

Baxter Healthcare Corporation, a Fortune 100 company, is synonymous with products, systems and services devoted to improving health care throughout the world. We provide a smoke-free environment plus competitive compensation and benefits. Please send your resume in confidence (indicating on the outer envelope the Dept. Code for your position of interest) to: Baxter Hyland Division, Human Resources Dept., 4501 W. Colorado Blvd., Los Angeles, CA 90039. Employment is contingent upon the result of a drug screening test. An Affirmative Action/Equal Opportunity Employer.

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**University of Minnesota**

**Department of Pediatrics and Institute of Human Genetics**

**Martin Lenz Harrison Chair in Developmental Biology**

The University of Minnesota Medical School invites applications and nominations for the Martin Lenz Harrison Endowed Chair. The Institute of Human Genetics and the Department of Pediatrics are seeking a highly qualified, internationally recognized, mammalian developmental molecular biologist, who will recruit and direct a group of investigators with interests in mammalian developmental biology. Individuals with interests in other areas of vertebrate developmental biology will also be considered. This position will be a tenured full Professor (M.D. and/or Ph.D.) in the Department of Pediatrics and the appropriate basic science department, with membership in the Institute of Human Genetics.

To support this program, substantial financial and space commitments are available. Laboratory space for the Chair and additional faculty will be in the Institute of Human Genetics. Presently, the research laboratories of 9 faculty members from 4 departments are located within the Institute. Areas of ongoing research include molecular immunology, molecular neurogenetics, oncogenesis, control of gene expression, and hematopoiesis.

Please send nominations and inquiries to:

Dr. Harry T. Orr
Chair, Search Committee
University of Minnesota
Institute of Human Genetics
Box 206 UUMC
Harvard Street at East River Road
Minneapolis, MN 55455

The last date for receipt of applications is June 30, 1991.

The University of Minnesota is an equal opportunity educator and employer.
UNIVERSITY OF MIAMI
SCHOOL OF MEDICINE (UMSM)
DEPARTMENT OF NEUROLOGY
NEUROIMMUNOLOGIST

Applications from Ph.D. or M.D. neuroimmunologists at the ASSOCIATE OR FULL PROFESSOR level to direct the neuroimmunology section of the Department of Neurology. Tenure decisions will be based upon candidate's qualifications. A VA/JMC position may be available. Applicants should have established laboratory research programs and clinical interests. DRC. This is an exciting growth position in a department with extensive existing neuroimmunology research at the University and a well-established Program. Salaries are competitive and will be commensurate with experience. The University of Miami is an Equal Employment Opportunity/Affirmative Action Employer.

UNIVERSITY OF MISSOURI
DIRECTOR OF DALTON RESEARCH CENTER

Applications and nominations are invited for the position of director of the Dalton Research Center (DRC). The DRC is a university-supported research facility that occupies a building and a faculty position in a free-standing research building and has research investigators from the School of Medicine and the Colleges of Veterinary Medicine and of Arts and Sciences. In research programs in cardiovascular and related areas utilize molecular, cellular, and system models. Several technical and administrative units are in place to support the research mission of the DRC. DRC directors will be expected to provide leadership and to be responsible for appointing and supervising a DRC coordinator, and for developing, implementing, and evaluating the research program. A Ph.D. or M.D. or equivalent degree in the biomedical field is to be filled. The University of Missouri is an Equal Opportunity/Affirmative Action Employer.

NEUROSCIENTISTS, CELL AND MOLECULAR MUTANTS AND NEUROSCIENTISTS

Applications from Ph.D. or M.D. neuroscientists in any field of neuroscience who have published in peer-reviewed journals may be considered. The University of California, Berkeley, is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN ELECTRONIC TECHNIQUES TO BIOLOGICAL TIMING

Tenure-track positions are available in a newly established NSF Science and Technology Center for Biological Timing. The center seeks individuals with research interests in the general area of biological timing to its faculty. Research start-up funds are available. Send curriculum vitae, statement of research interests, and the names and addresses of three references to: Search Committee, Center for Biological Timing, Gilmer Hall, University of Virginia, Charlottesville, VA 22901. The University of Virginia is an Affirmative Action/Equal Opportunity Employer.

Yale University is an Equal Opportunity/Affirmative Action Employer.
How to solve the equation for success.

Pfizer is a lot more than a pharmaceuticals and healthcare industry leader. It's a group of people dedicated to discovering, developing and marketing innovative pharmaceuticals, animal health and specialty chemical products that improve the quality of life worldwide. As a Fortune 100 company, Pfizer is committed to continuing its remarkable growth by investing more than half a billion dollars annually in research and development.

BS/MS Scientists

If you have relevant laboratory experience and strong theoretical knowledge, take advantage of this opportunity to join multi-disciplinary teams in one of the following areas:

Protein Biochemist — Provide general assay support of protein isolation and characterization research.

Protein Purification — Develop and scale up natural and recombinant protein purification from various cell expression systems.

Behavioral Neuroscientist — Develop novel behavioral models toward the discovery of novel drug development for psychotherapeutic indications.

Cellular Electrophysiology — Investigate the role of lymphocyte ion channels in autoimmune diseases, using patch-clamp recording and videoimaging technologies.

Cellular Immunology — Conduct studies to discover novel therapeutics for autoimmune diseases. Duties include flow cytometry analysis of T and B lymphocytes, in vitro T cell activation studies and in vivo modeling.

Our excellent benefits include competitive salaries, health and dental care, paid holidays and vacations, savings, investment and pension plans, and relocation assistance to our attractive Connecticut shore location.

To learn how you can be part of our success, please send your resume to: Mr. Kym Goddu, Central Research Division, Pfizer Inc, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
RESEARCH OPPORTUNITIES

Searle, a world-wide leader in the pharmaceutical industry is seeking to strengthen our research programs in the areas of analgesia, neuroprotection, and prostoglandins with the addition of a Senior Research Investigator and a Research Scientist. These are excellent opportunities to make an important contribution towards the development of novel approaches in the understanding and treatment of neurodegenerative conditions and pain.

Senior Research Investigator

The professional in this position will independently set up and validate in vitro and in vivo models to assess novel approaches in the development of neuroprotective agents or mechanisms of action in prostoglandins. We require a Ph.D. in biochemistry, pharmacology, neuroscience or neuroanatomy along with 2 years of post doctoral work in neuroprotection or prostoglandins. Knowledge of models of analgesia, inflammation or neuroprotection is also required.

Research Scientist

The candidate we select will assess the mechanism of action of novel analgesics or neuroprotective agents. An MS or BS in biology, pharmacology, or neuroscience is required in addition to prior experience with electrophysiological recording or models of analgesia.

Research the opportunities at Searle. Send your resume, in confidence, to: Searle, Human Resources, Dept. PB18, 4501 Searle Parkway, Skokie, IL 60077. An equal opportunity employer M/F/H.
An environmental biology professorship is being advertised at Rutgers University. The professor is expected to lead a new environmental biotechnology program at the Center for Agricultural Molecular Biology (AgBIOTECH), in conjunction with the Department of Environmental Science. The professor will also be associated with the Environmental Studies at the New Jersey Agricultural Experiment Station (NJAES). AgBIOTECH serves the state's agricultural, marine, and environmental industries with expertise in biotechnology. AgBIOTECH currently has six research groups housed in new facilities, along with 15 Environmental Science faculty. AgBIOTECH will grow to 16 research groups and anticipates significant expansion of its environmental program.

Candidates should have demonstrated outstanding research and leadership skills in one of the following fields: bioremediation, degradation of toxic wastes, innovative biological treatments for waste management, monitoring the fate of microbial populations in the environment, and genetic manipulation of microorganisms for environmental objectives.

The successful candidate will develop a productive research program that will attract significant external funding. He/she will recruit new faculty to the environmental biotechnology program and coordinate environmental programs at NJAES. The candidate will advise graduate students and undertake some teaching. He/she will interact with industry and contribute to the development of environmentally responsible policies at the state and local levels.

The position will be split between AgBIOTECH (60%) and the Department of Environmental Science (40%). AgBIOTECH will provide start-up funds and staff support, in addition to a generous salary and benefits package. The position will be tenured in the Department of Environmental Science. Send resume and names of three references to Dr. Peter Day, Center for Agricultural Molecular Biology, Rutgers University, New Brunswick, NJ 08903-0231.

Rutgers University is an Affirmative Action / Equal Opportunity Employer.

Amgen, an innovative leader in the discovery, development and marketing of human therapeutics through applications of biotechnology, has an immediate opportunity for a Research Associate, Protein Structure.

Responsibilities will include sequencing and characterization of natural and recombinant DNA-derived proteins. Candidates should have a BS or MS and experience in protein sequencing, including manipulation of high performance liquid chromatography (HPLC), gas-phase sequencing and SDS polyacrylamide gel electrophoresis.

Amgen offers a challenging and changing environment on the leading edge of biotechnology as well as an excellent compensation and benefits package, including equity offerings. If you have the necessary skills and qualifications and would like to be a part of an organization that places a high priority on its human resources, please send a resume, in confidence, to:

**AMGEN, INC.**
Recruitment, Dept. #578
Amgen Center
Thousand Oaks
CA 91320-1789

Amgen is an Equal Opportunity Employer.

**INDUSTRIAL POST-DOKTORAL POSITION**

**HELPING OTHERS LIVE A BETTER LIFE**

Boehringer Mannheim Corporation is one of the nation’s leaders in the field of Medical Diagnostics, Biochemicals and Medical Research. This leadership has been attained through emphasis on quality and team effort. Due to our growth in Research and Development, we are seeking to fill a post-doctoral position in our Indianapolis headquarters.

The individual we seek will do research on Conductive Polymers for Amperometric Biosensors. This one-year project will involve synthesis as well as chemical, material and electrochemical characterization of conductive polymers. Prior research experience in synthetic polymer chemistry and polymer reactions is highly desirable. The selected scientist will be encouraged to file patent applications and publish findings. Potential will exist to extend position to a second year.

Recent Ph.D.’s in Chemistry, Polymer Science and Engineering or Material Science and Engineering are encouraged to respond.

At Boehringer Mannheim, we offer an excellent compensation package including a relocation package. Qualified applicants should send a resume with a cover letter, including salary history, for confidential consideration to: Boehringer Mannheim, Dept. P.O., 9115 Hague Road, P.O. Box 50100, Indianapolis, IN 46250. An Equal Opportunity Employer.
RNA COMPUTATIONAL BIOLOGIST

The University of Colorado at Boulder seeks a Ph.D. to work in a non-tenure track position in the Departments of Chemistry/Biochemistry and Molecular, Cellular, & Developmental Biology. The Departments are extensively involved in research aimed at novel binding and enzymatic functions of RNA as well as structural analyses of RNA through NMR and diffraction, and are seeking to build a computational group that complements the molecular and physical groups.

Applicants should have a considerable background in biology/molecular biology with experimental experience, general theoretical biology/computational biology with several years of research experience, programming languages (in particular fortran & C), and several years working experience with both VMS and UNIX systems. The primary interest of the candidate must be aimed toward 2- and 3-dimensional RNA structure determinations, from both a computational and experimental perspective. The candidate should have a wide expertise in sequence and structure analysis methods including phylogenetic comparisons, and be concerned with both thermodynamic and kinetic aspects of RNA structure formation. Furthermore, the ideal candidate should have demonstrated research experience in a large spectrum of RNA studies and a proven ability to provide biological interpretations to the results of laboratory and computational experiments. The research program will include frequent interactions with a large group of molecular and physical biologists, as well as interactive experimental programs in which predictions are tested in order to generate more accurate predictive methodologies.

In addition to a Ph.D., the candidate should have more than one year of related postdoctoral experience, relevant publications, and a demonstrated ability to collaborate with others. Salary will be commensurate with experience. Please send resume to: Dr. Larry Gold, Chairman, Department of MCD Biology, University of Colorado, Boulder, CO 80309-0347. Applications must be received by April 30, 1991.

The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities, and disabled individuals.

RESEARCH SCIENTISTS

Biotechnology Research and Development

5 Prime—3 Prime, Inc.* is a privately held biotechnology company located in Boulder, Colorado, that develops and markets products for life science and molecular biology research. We are seeking experienced scientists to participate in the development of novel research methods and technologies. The positions offer a challenging opportunity with a rapidly growing company.

Ph.D., M.S., and B.S. Level Positions in Technology Development

Positions are available for energetic, creative scientists with in-depth training in Molecular Biology and hands-on laboratory experience in recombinant DNA techniques. A minimum of two years experience in molecular biology and biochemistry are required. Experience in basic gene cloning and mammalian tissue culture is essential. Familiarity with a variety of CDNA cloning and gene expression in prokaryotic and/or eukaryotic systems is highly desirable.

5 Prime—3 Prime, Inc. offers a dynamic research environment, the opportunity for high visibility and career growth. If you are creative, innovative and would like to see the results of your research used by researchers world-wide, send your C.V. and three references to:

Director of Professional Recruitment
5 Prime—3 Prime, Inc.
5603 Arapahoe
Boulder, CO 80303
The Division of Biological Sciences of The University of Chicago is soliciting nominations and applications for the position of Director for a Center for Human Genetics, one of five biomedical research centers to be located in the institute for Molecular Medicine, housed within the Jules Knapp Research Building. The other research centers will be devoted to the study of molecular cardiology, immunology, neurobiology and molecular oncology. The Center will have 10,000 square feet of newly constructed research space which has been planned to house six investigators. The Director will be responsible for the development of this program and for recruitment of the five additional Center faculty members who will have primary academic appointments in an appropriate department. Funding is available for the establishment and initial support of this major new research program. The activities of the Center will complement ongoing programs in human genetics in many departments at The University of Chicago. Ph.D. degrees in genetics are offered through an interdepartmental Committee on Genetics. Please address expressions of interest and suggestions, accompanied by resumes and other relevant information (closing date: July 1, 1991) to:

Dr. Anthony P. Mahowald
Chairman, Search Committee
Molecular Genetics and Cell Biology
920 E. 58th Street
Chicago, IL 60637

An Affirmative Action Equal Opportunity Employer

The ZENTRUM FÜR MOLEKULARE BIOLOGIE HEIDELBERG (ZMBH) at the University of Heidelberg (FRG) invites applications from scientists for a five year

GROUP LEADER POSITION.

The successful candidate will have the opportunity to establish an independent research group. It is expected that his research program will contribute to the ZMBH's research activities which focus on

—mechanisms of gene regulation and development
—molecular neurobiology
—molecular mechanisms of pathogenicity.

The holder of the position is expected to participate in the department's teaching program.

The ZMBH presently houses 16 independent research groups and offers excellent central facilities which include biocomputing, DNA- and peptide synthesis, protein microsequencing, animal quarters and centralised administrative services.

Further details may be obtained from Prof. Heinz Schaller, telephone 49-6221-566850, telefax 49-6221-565507.

Applications should be sent to the Direktorium of the ZMBH, Im Neuenheimer Feld 282, D-6900 Heidelberg, FRG by 19.04.1991.

Synergen, Inc., a growing protein-based biopharmaceutical company in Boulder, Colorado, seeks a Scientist with experience in Protein Purification/Process Development. This position is responsible for the development of large-scale purification methods for recombinant proteins, and analytical techniques to monitor product quality. The successful candidate will have the opportunity to interact closely with members of the process engineering, analytical services and R&D groups. This position requires a Ph.D. and 2-5 years of postdoctoral experience. Previous experience with large-scale purification techniques is highly desirable.

Synergen offers competitive salaries, generous benefits and the financial stability required for future development. Please send a CV or resume to: Director of Recruitment, Box PS, 1885 33rd Street, Boulder, CO 80301. Synergen is an Equal Opportunity Employer.

The R.W. Johnson Pharmaceutical Research Institute in La Jolla, CA has openings for two-year appointments for Postdoctoral Fellows with an option for renewal.

Positions are available in the Molecular Biology, Cell Biology, and Vascular Biology groups. Positions in Molecular Biology require a knowledge of humoral and cellular immunology as well as an interest in molecular approaches to immune therapy and/or immune tolerance. Strong background in gene cloning/expression is preferred. The position in the Cell Biology group will investigate cellular events activated by monocyte exposure to lipopolysaccharide. The position in Vascular Biology involves the study of integrin structure/function relationships.

The R.W. Johnson Pharmaceutical Research Institute is part of the Johnson & Johnson family of companies and offers a competitive salary and benefits package. Please send your resume to:

Human Resources Manager
R.W. Johnson Pharmaceutical Research Institute
3535 General Atomics Ct., Suite 100
San Diego, CA 92121
An Equal Opportunity Employer.
POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY/ BIOCHEMISTRY UNIVERSITY OF MICHIGAN

Two postdoctoral positions are available to study the molecular basis of skin function. Position 1 involves study of signaling pathways that regulate growth and differentiation of human skin cells (keratinocytes). Areas of interest include: (i) transcriptional regulation, (ii) PK-C isozymes, (iii) growth factors and cytokines, and (iv) retinoic acid receptors. The second position involves study of the enzymology of vitamin A metabolism in human skin. Areas of interest include characterization, regulation, and molecular cloning of the enzymes involved in retinoic acid metabolism. Funding is available for at least 3 years with a possibility of long-term employment. Send curriculum vitae, including fields of interests, to:

John J. Voorhees, M.D.
Professor and Chairman of Dermatology
1301 East Catherine
Krege I, R6558
Ann Arbor, MI 48109-0528

The University of Michigan is a nondiscriminatory Affirmative Action Employer.

POSTDOCTORAL POSITIONS. In molecular genetics, viral pathogenesis, immunogenetics, and cellular immunology. Three-year funded positions available in two interacting laboratories with an outstanding research environment. Research centers on molecular mechanisms of MHC diversification, structural basis of class I antigen presentation, role of class I molecules in Thelier's virus-induced demyelinating disease (a mouse model for MS), and role of T cells in resistance to disease and in pathogenesis. Competitive stipends and outstanding benefits. Address inquiries (including curriculum vitae and names of three references) to Larry R. Pease, Ph.D. (molecular biology and immunogenetics), or Moses Rodrigues, M.D. (viral pathogenesis and cellular immune basis), Department of Immunology, Mayo Clinic, Rochester, MN 55905. Mayo Foundation is an Affirmative Action/Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS IN GENE THERAPY

Somatix Therapy Corporation is a leading biotechnology company developing programs in gene therapy and cellular transplantation. Postdoctoral positions are available for recent Ph.D.s to work in the area of retroviral-mediated gene transfer in mammalian cells. Candidates should have experience with retroviruses, primary cell culture, and recombinant DNA techniques. Please submit curriculum vitae, including field of interest, references, and three or more letters of recommendation. Interested candidates should send their credentials to: Personnel Department, Somatix Therapy Corporation, 850 Marina Village Parkway, Alameda, CA 94501. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. National Research Council Associateships available for research on microbial pathogenesis, host resistance, and immunity to infections including anthrax. Project areas include molecular approaches to study the role and mechanisms of action of toxins, capsule, and other plasmid- or chromosome-encoded factors in virulence and immunity; cell biology of macrophage function including phagocytosis and endocytosis, antigen processing, mechanisms of action of adjuvants and vaccine development; and mechanisms of innate and acquired resistance to B. anthracis. Candidates with a Ph.D. degree in the areas of microbiology, molecular biology, cell biology, or immunology are invited to apply. Send curriculum vitae, names of three references, and a statement of research interests to: Dr. Susan Welkos or Dr. Arthur M. Friedlander, Bacteriology Division, U.S. Army Medical Research Institute of Infectious Diseases, Ft. Detrick, Frederick, MD 21702. Telephone: 301-663-7341.

POSTDOCTORAL RESEARCH ASSOCIATE

Postdoctoral position for a molecular/cellular biologist to join well-funded immunology laboratories studying molecular regulation of cytokines and their receptors in both the immune and central nervous systems. Salary: $25,000 per year. Send curriculum vitae and transcripts to: Dr. Keith Kelley, University of Illinois, 207 PABL, 1201 West Gregory Drive, Urbana, IL 61801. Telephone: 217-333-5141. FAX: 217-444-5617.

POSTDOCTORAL POSITIONS

Two postdoctoral positions are available at the Fred Hutchinson Cancer Research Center. The first position will involve studies of innate and adaptive immunity. The second position involves research in the areas of cancer genetics. Both positions require a Ph.D. and/or M.D. Candidates with research experience in tumor biology and related areas are encouraged to apply. Send curriculum vitae and three references to:

Fred Hutchinson Cancer Research Center
Dr. Daniel E. Geraghty
1124 Columbia Street, M718
Seattle, WA 98104

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POSTDOCTORAL POSITION

A postdoctoral position is available immediately to study factors affecting protein synthesis in bacteria. Specific points of interest include stabilization of eukaryotic proteins synthesized in bacteria, enzymes responsible for protein breakdown, mutations that alter protein breakdown, and changes in protein breakdown related to growth conditions. Requires Ph.D. plus laboratory experience in molecular biology and molecular cloning. The salary range is $20,000 to $25,000 per annum commensurate with experience. Interested candidates, please forward your curriculum vitae and the names of three references to: Dr. Lee Simon, Waksman Institute, Rutgers, The State University of New Jersey, P.O. Box 759, Piscataway, NJ 08855-0759. An Affirmative Action/Equal Opportunity Employer.

Unemployment Compensation Act

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

ARS is currently recruiting for 150 postdoctoral positions throughout the country. Opportunities exist in many research areas, including:

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

Successful candidates will be hired initially for up to 2 years in duration. Salary for these GS-11/12 positions ($31,116 to $37,294) will be based on qualifications and experience.

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

N.L. Bakes
Personnel Division (S)
USDA/ARS
6305 Ivy Lane, Room 129A
Greenbelt, MD 20770

or call:
Ms. Kim Conley
(301) 344-2796

ARS is an Equal Opportunity Employer.
Glycomed Incorporated is exploring carbohydrates for novel drug agents, using the most advanced analytical, synthetic and cell biology research technology available. We are researching a rapidly expanding list of pharmaceutical products, including cardiovascular agents, anti-inflammatories and antivirals. Currently, we have the following positions available:

SECTION HEAD/Biochemistry and Glycosaminoglycans: Direct research programs involving isolation and structural analysis of complex carbohydrates, specifically glycosaminoglycans. Requires PhD in Biochemistry or Cell Biology and extensive background including publications in biochemistry related to complex carbohydrates, with special emphasis in proteoglycans and glycosaminoglycans. Job #140-2911.

SCIENTIST/Cell Genetics: Focus on enzyme-assisted synthesis of carbohydrates. Requires PhD in Molecular Biology, Biochemistry or related area; experience with glycosyltransferases/glycosylhydrolases, production of recombinant enzymes, or design of specific enzyme inhibitors desirable. Job #170-2911.

SCIENTIST/Glycoproteins: Develop affinity purifications of both bioactive carbohydrates and specific glycoproteins. Requires PhD in Biochemistry or related field and 3+ years' relevant postdoctoral experience in enzymeology, assay development and kinetic modeling/analysis. Carbohydrate expertise preferred. Job #143-2911.

SCIENTIST/Analytical Chemistry: Analyze complex carbohydrates using the Finnigan MAT-900, TSQ-70 and ITD instruments. Requires PhD in Organic Chemistry or Biochemistry, knowledge of mass spectrometry techniques for carbohydrate characterization, and experience in derivitization chemistry and chromatographic techniques. Job #120-2911.

POSTDOCTORAL SCIENTIST/Analytical Chemistry: Perform 1D- and 2D- NMR experiments of oligosaccharides, glycopeptides and glycolipids, and analyze data. Requires PhD in Physical Chemistry or Molecular Biophysics and 2+ years' experience in conformational studies of carbohydrates by NMR and molecular modeling techniques. Familiarity with UNIX/VAX VMS operating systems preferred. Job #120-2912.

SCIENTIST/POSTDOCTORAL SCIENTIST/Cell Biology: Analyze receptor-ligand interactions, design and perform experiments to characterize affinities, and investigate biology of carbohydrate binding proteins and ligands. Requires PhD with 1+ year of postdoctoral work, and experience in cell surface receptors and standard receptor binding studies, including ELISAs, RIAs and Scatchard analysis. Job #130-2911.


RESEARCH ASSISTANT/ASSOCIATE/Microbiology: Provide assistance in set-up and performance of antiviral assays, cell culture and virus production. Requires BS/MS in Microbiology, Molecular Biology or related discipline; experience in virology and viral assay systems preferred. Job #150-2911.

RESEARCH ASSISTANT/ASSOCIATE - Glycolipids: Prepare glycolipids and glycoproteins from cells and tissues. Requires BS/MS in Biochemistry, Chemistry or related discipline; experience with techniques for isolation and characterization of glycoconjugates preferred. Job #142-2911.

RESEARCH ASSISTANT/Biochemistry: Isolate, analyze and maintain catalog of complex carbohydrates with biological activities. Requires BS in Biochemistry, Chemistry or Biology. Job #140-2912.

RESEARCH ASSISTANT/Cell Biology: Maintain laboratory by preparing media and reagents and performing ELISA and RIA assays, cell adhesion assays, radiation surveys, and cell culture. Requires BS with 2+ years' lab experience performing ELISA and RIA assays, and experience with cell culture techniques. Job #130-2912.

MANAGER OF CORPORATE DEVELOPMENT: Working in our Operations Department, you will coordinate the company's efforts to establish strategic alliances, and be responsible for preparing technology assessment. PhD in a scientific discipline required; MBA desirable. Must have technical training/experience in relevant R&D field, and at least 2 years' experience in licensing and technology assessment at a pharmaceutical company. Job #2-2911.

Glycomed offers a competitive compensation and benefits package, including stock options. Please send your resume, indicating appropriate Job #, to: Manager of Human Resources, 860 Atlantic Ave., Alameda, CA 94501. EOE.

Glycomed
Clinical Biology
Research Scientist

CIBA-GEIGY Pharmaceuticals Division enjoys a distinguished reputation for progressive scientific research and new product development. To further enhance our efforts, we seek a Research Scientist to contribute to our innovative research team at our 100-acre headquarters in Summit, New Jersey.

Successful candidate will collaborate with biologists and clinicians to develop novel methods (in vivo/ex vivo) of detecting organ dysfunction based on Magnetic Resonance Spectroscopical changes. Responsibilities will include the biological application of NMR Spectroscopy, particularly isolation, preparation and evaluation of perfused organs with multiple nuclei.

To qualify, you will need a PhD in Physics with major emphasis on NMR research. A minimum 1-3 years experience in the biological application of NMR Spectroscopy is required.

In return, we provide a competitive salary, comprehensive benefits, as well as the opportunity for personal and professional growth. For consideration, please forward resume with salary history and requirements to: Al Arensen, Staffing Center, CIBA-GEIGY Corporation, Pharmaceuticals Division, Dept 313, 556 Morris Avenue, Summit, New Jersey 07901. We are an equal opportunity employer M/F/H.

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Jefferson Cancer Institute,
Carlo M. Croce, M.D., Director
offers Ph.D. training in
Molecular Genetics, Immunology, Microbiology,
Molecular Pharmacology and Structural Biology

Students will take a common core curriculum consisting of courses in biochemistry, molecular biology and cell biology, followed by specialized courses in their particular area of concentration, leading to a Ph.D. degree in Genetics, Microbiology/Immunology, or Pharmacology. Facilities include oligonucleotide synthesis and automated DNA sequencing, peptide synthesis and microsequencing, cytometry and transgenic mouse production, two-dimensional nuclear magnetic resonance, X-ray crystal structure analysis, molecular modelling and graphics, utilizing high performance Silicon Graphics and Convex computers.

Current areas of research interest of the faculty include:


- Genome structure and transcriptional and developmental regulation (Drs. Martyn Darby, Tadaatsu Goto, Kay Huebner, Eric Kmiec, Alexander Mazo, and Laura Steel)

- Molecular and structural biology of receptors and signal transducers (Drs. Jeffrey Benovic, Catherine Calkins, Thomas Frielie, Robert Harrison, Bradford Jameson, Madhu Kalia, James Keen, Gerald Litwack, Bice Perussia, Wolfgang Vogel, and Irene Weber)

Thomas Jefferson University has an excellent library system and is located in an attractive and historic part of Center City Philadelphia. Recreational facilities including gyms and a full-size pool are available on the campus. Students accepted into the program will be provided with predoctoral support including waiver of tuition and a stipend of $14,000 per year. For interested and qualified students, an M.D./Ph.D. program is available.

For further information regarding September 1991 entrance call Joanne Balitzky at (215) 231-2399 or write:

Thomas Jefferson University
Joint Graduate Programs
College of Graduate Studies
Thomas Jefferson University
1029 Locust Street
Philadelphia, PA 19107-6799

C. R. Bard, Inc., a leading multinational developer and manufacturer of medical devices, has a Sr. Research Scientist position available for an experienced Research Biochemist or Material Scientist.

In this position, you will plan and coordinate the development of new implant products and the modification of existing products. Ideal candidate will have:

- Ph.D. degree or equivalent in the sciences or M.D.-Ph.D.
- Three to eight years of postdoctoral or industrial research experience in biological receptor sites, peptide hormones, enzymology, polysaccharide/protein chemistry, or hydrophilic biomaterials.
- Experience with controlled release of biologicals or pharmaceuticals.
- Technical liaison experiences with research institutes.
- Knowledge of organic/bio-chemistry, cell biology, physiology, histology, pharmacology or animal study.
- Excellent communication and interpersonal skills.
- Project management experience desirable.

We offer a competitive salary, extensive benefits and a stimulating professional environment. Please forward your resume indicating salary history to: Ms. Pat Hanigan, Corporate Director of Personnel, C. R. Bard, Inc., 730 Central Avenue, Murray Hill, NJ 07974. Principals only and no phone calls, please.

C. R. Bard, Inc. believes in a safe and secure workplace. As a result, we utilize drug testing as a condition of employment.

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BARD

TECHNICAL SUPPORT AND MARKETING SPECIALIST

Axon Instruments, Inc., the world leader in design and manufacture of research instrumentation and software for electrophysiology and biophysics, is looking for a bright, motivated person to join the Marketing and Technical Support (MTS) department.

In this position you will provide technical support of Axon software and associated hardware products to the scientific community worldwide. You will troubleshoot complex technical problems, demonstrate Axon products at scientific meetings, perform alpha tests of new products, write and edit manuals, brochures and newsletters, and contribute to market research, marketing and advertising of Axon products.

Requirements: Ph.D./M.S. or equivalent in electrophysiology, biophysics or physiology with hands-on experience using electrophysiological software and hardware. Two years of industrial experience is desirable. Hands-on knowledge of Axon or similar products is desirable. Must possess excellent verbal and writing skills.

Please send your resume to: SMTS

Axon Instruments, Inc.
1101 Chess Drive
Foster City, CA 94404
CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control. The program provides for: Master of Public Health training (new feature); Participation in the DCPC Cancer Prevention and Control Academic Course; Working at NCI directly with individual preceptors on cancer prevention and control projects; Field assignments in cancer prevention and control programs at other institutions. Funding permitting, as many as ten Fellows will be accepted for up to three years of training, beginning July 1, 1992 (date may vary for M.P.H. applicants). Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

ELIGIBILITY

M.D. or D.D.S. from a U.S., territorial, or Canadian Medical School or equivalent experience. Foreign medical graduates must have current ECFMG/FGME certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

OR

Ph.D., Dr. P.H. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences) or equivalent experience. Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

PLUS

U.S. citizenship or resident alien eligible for citizenship within four years.

For details and application catalog send a postcard or letter with your name and home address to:

Douglas L. Weed, M.D., M.P.H., Ph.D, Director, Cancer Prevention Fellowship Program, Division of Cancer Prevention and Control, National Cancer Institute, Executive Plaza South, T-41, Bethesda, MD 20892.

Further Inquiries: Mrs. Barbara Redding (301) 496-8640 or 496-8641

Deadline For Receipt of Applications: SEPTEMBER 1, 1991

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Sigma Chemical Company is beginning a new decade of success. Backed by 40 years of experience, the future looks brighter than ever. The world's foremost supplier of research and organic chemicals as well as the leader in development of diagnostic kits and reagents, SIGMA is strategically positioned on the leading edge of the biomedical industry.

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Current Postdoctoral Opportunities Biomedical Sciences
Two Year Term Appointments

The Biomedical Sciences Division of the Lawrence Livermore National Laboratory has two postdoctoral research positions available to work within the context of the human genome initiative on the development of physical mapping technologies. In addition, both candidates will be responsible for the integration of physical mapping data for defined regions on human chromosomes 2 or 19.

One postdoctoral position will involve the design and implementation of strategies to prepare a contig map of human chromosome 2 using a combination of cosmids, YACs, P1 clones and hybrid cell lines. This approach will largely be based on a recently developed Au-PCR/hybridization approach, which permits rapid correlation of overlapping clones and hybrids. Other mapping reagents will consist of probes and PCR markers derived from microdissected chromosome 2.

The second position will focus on the closure of the cosmids contig map of human chromosome 19. The approach to close gaps in the contig map will largely be based on the use of YACs to link neighboring cosmids contigs. YACs will be identified with a variety of PCR and hybridization procedures.

Both positions require a PhD in Genetics, Molecular Biology or Cell Biology, with extensive experience in recombinant DNA, PCR and/or pulsed field electrophoresis. Experience with YAC or P1 cloning and analysis is desirable. Contact: Dr. Peter J. de Jong, (415) 423-8145. The Biomedical Sciences Division offers a wide variety of excellent research and computational facilities in addition to a highly competitive salary and benefits package. Interested applicants are invited to send their curriculum vitae to: Phil Harding, Professional Employment Division, Lawrence Livermore National Laboratory, P.O. Box 808, Dept. A91148B, L-725, Livermore, CA 94550. Equal Opportunity Employer. U.S. citizenship desired, but not required.
POSITIONS OPEN

ECOLOGIST

POSTDOCTORAL POSITION IN Costa Rica, La Selva Biological Station, for ecologist with strengths in plant nutrition and plant pathology. Project involves study of impacts of plant longevity and stand diversity on ecosystem processes in plantations. Send curriculum vitae and three letters of recommendation sent to: John J. Ewel, Department of Botany, 220 Bartram Hall, University of Florida, Gainesville, FL 32611. Telephone: 904-392-1468. FAX: 904-392-3993.

POSTDOCTORAL ASSOCIATE POSITION Available immediately to study molecular mechanisms of thrombosis in animal models. Peptide and antibody probes of thrombotic interactions between platelets and streptokinase will be analyzed with two-dimensional gel electrophoresis and immunoblotting techniques. Position requires a Ph.D. or M.D. degree. Strong background in cardiovascular physiology or molecular immunology is desired. Send curriculum vitae, statement of research interests and goals, and three letters of reference by 28th April 1997 to: Mark C. Steiner, Department of Preventive Sciences, School of Dentistry, University of Minnesota, Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITIONS WALThER ONCOLOGY CENTER INDIANA UNIVERSITY SOlUCIOnS MACHINE

Postdoctoral positions are available to study the regulation of colony-stimulating factor-1 gene expression and transcript processing in mammalian cell lines. Candidates with experience in cell culture and molecular biology preferred. Send curriculum vitae and names of three references to: Dr. Maureen A. Harrington, Walther Oncology Center, Indiana University School of Medicine, 975 West Walnut Street, Indianapolis, IN 46202-5121.

POSTDOCTORAL POSITION, HOMOLOGOUS RECOMBINATION IN MAMMALS A position is available immediately to study the basic mechanisms of homologous recombination in mammalian cells. Research topics include, but are not limited to: (i) development of strategies to improve the efficiency of gene targeting, (ii) regulation of chromosomal rearrangements, and (iii) purification/characterization of proteins involved in recombination. Applicants should have a strong background in mammalian molecular genetics, and/or biochemistry. Please send curriculum vitae and the names and addresses of three references to: Dr. Alan S. Waldman, Walther Oncology Center, Indiana University School of Medicine, 975 West Walnut Street, Indianapolis, IN 46202-5121.

POSTDOCTORAL POSITION

Immediate opening available to investigate the survival strategies of an intracellular parasite (Leishmania) at the molecular and biochemical levels. Send curriculum vitae, brief statement of career goals, and names of three references to: Dr. Anthony J. Mukkada, Department of Biological Sciences, University of Cincinnati, Cincinnati, OH 45221-0006. Telephone: 513-556-9700; FAX: 513-556-5299.

POSTDOCTORAL POSITION. Investigate the characteristics, transcriptional regulation, and tissue-specific expression of stereoidogenic enzymes. Candidates should have a strong background in molecular biology and genetics. Experience in DNA cloning, sequencing, site-directed mutagenesis, DNA-protein interaction, and PCR-directed mutagenesis is desirable. Send curriculum vitae and names of three references to: Dr. Anita H. Payne, Steroid Research Unit, L1221 Women’s Hospital, University of Michigan Medical Center, 1500 E. Medical Center Drive, Ann Arbor, MI 48109-0278. A mendelian endocrinology Affirmative Action Employer.

POSTDOCTORAL POSITION IN MOLECULAR ORGANIC CHEMISTRY Stanford University has an opportunity to study the molecular biology of prostatic cancer. Experience with cell biology, recombinant DNA technology, and growth factors is preferred. Ongoing strategies to analyze the interactions of growth factors and inhibitors, and induction of differentiation. Interested candidates should send their curriculum vitae with names of three references to: Dr. John Mendelsohn, Department of Medicine, Memorial Sloan-Kettering Cancer Center, 1275 York Avenue, New York, NY 10021. Telephone: 212-639-5858. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL CLINICAL CHEMISTRY WASHINGTON UNIVERSITY We are recruiting individuals with the M.D. and/or Ph.D. degree with a strong motivation for training in clinical chemistry. We offer a three-year unique program, now in its 14th year, providing the opportunity for training in academic clinical chemistry, together with basic research in one of the largest Laboratory of Medicine, Washington University School of Medicine, 660 South Euclid Avenue, Box 8118, St. Louis, MO 63110.

The Saskatchewan Research Council (SRC) invites applications from suitably qualified candidates for a NSERC-sponsored Industrial RESEARCH FELLOWSHIP, to undertake research in animal molecular and immunology. Candidates must meet the requirements for NSERC grants and must possess their doctorate. The SRC will provide a minimum stipend of $30,000 per annum, which may be reduced to 12 months of the selection of a suitable candidate and the awarding of NSERC funding. Applications in the form of curriculum vitae and the names of two academic referees should be submitted to: Dr. Jerry Kryszak, Saskatchewan Research Council, 15 Innovation Boulevard, Saskatoon, Saskatchewan SK7N 2X8, Canada. The SRC is committed to Employment Equity.

POSTDOCTORAL FELLOWS IN neuroscience at the Addiction Research Center. Topics include: (i) human genome and molecular purification of drug and neurotransmitter receptors: dopamine receptors; neurotransmitters of reward and addiction; effects of stress on dopamine receptors, (ii) pharmacology, and drug dependence; Salaries range from $29,000 to approximately $49,000 depending on experience and qualifications. Benefits and relocation expenses included. Send curriculum vitae and names of three references to: Dr. Howard J. Kadar, Addiction Research Center, Box 3180, Baltimore, MD 21224. The Alcohol, Drug Abuse, and Mental Health Administration is an Equal Opportunity Employer. ADAMHA is smoke-free and drug-free.

POSTDOCTORAL/RESEARCH ASSOCIATE Available immediately at the National Institute on Aging, National Institute of Child Health and Human Development, Bethesda, Maryland, to study the control of cell proliferation by growth factors in mouse mammary tumor cells. Specific projects involve the use of functional imaging techniques (regional cerebral blood flow, receptor binding autoradiography, electroencephalography, and neurophysiology) to investigate drug effects on brain self-administration and brain stimulation reward to determine the sites and mechanisms of action of such drugs of abuse as cocaine and opiates. Candidates should have a Ph.D. in biology or related fields and at least 2 years experience in relevant areas of neuroscience. Rank and salary dependent upon previous experience. Applicants should send curriculum vitae and three letters of reference to: Dr. Richard H. Freed, Laboratory of Neuroendocrinology, National Institute on Aging, National Institutes of Health, Building 10, Room 6C-103, 9000 Rockville Pike, Bethesda, MD 20892. Telephone: 301-496-8970. NIH is an Equal Opportunity Employer.

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POSTDOCTORAL FELLOWS IN immunology at the University of Miami School of Medicine, Miami, Florida. Positions available immediately to study diverse aspects of the immunological basis for disease, with particular emphasis on inflammation and infection. Positions require a Ph.D. or M.D. degree. Applications from individuals with a strong background in any field of immunology are encouraged to apply. The Miami campus offers a wide array of resources, including a core laboratory in molecular genetics, a Cardiovascular Research Institute, and a Center for Cancer Research, to name a few. For further information, contact Dr. Robert H. Schortemeyer, Department of Immunology, University of Miami School of Medicine, Miami, Florida 33101. Telephone: 305-324-2628. Assistant Professorships in Immunology.

POSTDOCTORAL FELLOWS IN neurobiology at the Center for Neurobiology and Behavior, Rockefeller University, New York City. Positions available immediately to study the molecular and cellular mechanisms by which drugs and hormones regulate brain function. Positions require a Ph.D. in biomedical sciences or a related field. Salary is competitive, dependent on research experience. The Rockefeller University is an Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION IN neurobiology at the Center for the Neurobiology of Addiction, Rockefeller University. Research involves the cellular and molecular mechanisms of drug reward and self-administration in primates. Positions require a Ph.D. in biological sciences and a strong interest in neuroscience. The Rockefeller University is an Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITION IN BIOLOGY AT THE UNIVERSITY OF CINCINNATI. Send curriculum vitae and names of three references to: Dr. Charles R. Phillips, Department of Biology, University of Cincinnati, Cincinnati, OH 45221-0003. Telephone: 513-556-5299.

POSTDOCTORAL POSITION IN neurobiology at the Center for Neurobiology and Behavior, Rockefeller University, New York City. Positions available immediately to study the molecular and cellular mechanisms by which drugs and hormones regulate brain function. Positions require a Ph.D. in biomedical sciences or a related field. Salary is competitive, dependent on research experience. The Rockefeller University is an Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL FELLOWS IN Virology at the Center for AIDS Research, National Institutes of Health, Bethesda, Maryland. Positions available immediately to study the molecular basis of HIV pathogenesis. The successful candidate will design and carry out experiments to address one or more of the following areas: viral replication, virus-host interactions, viral pathogenesis, and therapeutic strategies. Experience in molecular biology, virology, and cell biology is essential. Send curriculum vitae and names of three references to: Dr. Michael J. Holland, Head, Center for AIDS Research, National Institutes of Health, Bethesda, Maryland 20892. Telephone: 301-496-8970. NIH is an Equal Opportunity Employer.

POSTDOCTORAL FELLOWS IN neurobiology at the University of Miami School of Medicine, Miami, Florida. Positions available immediately to study diverse aspects of the immunological basis for disease, with particular emphasis on inflammation and infection. Positions require a Ph.D. or M.D. degree. Applications from individuals with a strong background in any field of immunology are encouraged to apply. The Miami campus offers a wide array of resources, including a core laboratory in molecular genetics, a Cardiovascular Research Institute, and a Center for Cancer Research, to name a few. For further information, contact Dr. Robert H. Schortemeyer, Department of Immunology, University of Miami School of Medicine, Miami, Florida 33101. Telephone: 305-324-2628. Assistant Professorships in Immunology.

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PROGRAMME

The German Minister for Research and Technology is offering research grants for limited periods in the framework of the promotion programme for neurobiology; this is available to particularly qualified German scientists who would like to return to Germany after at least a one-year research period abroad. This research grant is generally awarded for a period of 2 years. It comprises a position comparable with BAT I(a/b) and a lump sum for essential materials.

The awarding of the research grant will be carried out on the basis of a selection procedure according to scientific aspects. A leaflet about the research grant and the application forms are available from the responsible office on application:

Naturwissenschaftliches und Medizinisches Institut an der Universität Tübingen in Reutlingen (NNI)
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Research grants will be awarded the first time starting from 01.01.1991; further grants can be awarded from 01.01.1992 or at a later date.

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R. Lefkowitz, P.A. Hargrave, J.W. Thorner

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P.C. Sternweis, S.G. Rhee, R. Graham

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G Proteins in Development and Differentiation
P. Devreotes, S. Park, S. Reed

Ras and Related Proteins in Cell Growth and Cancer
F. McCormick, P. Polakis, A. Hall, J. Downward

The Cytoskeleton and G Proteins: Are There Connections that Integrate Cellular Signal Transduction?
M. Rodbell, M.M. Rasenick, A.J. Jesatits, D.R. Manning

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POSTDOCTORAL FELLOWSHIP
Neurosciences/Biomedical Computing

The Laboratory of Neurosciences of the National Institute on Aging, National Institutes of Health, Public Health Service, seeks a qualified candidate for a postdoctoral fellowship (Staff Fellow/Senior Staff Fellow - Tenure Track) to work in a multidisciplinary team conducting studies of normal and disordered human functional neuroanatomy using positron emission tomography (PET) and magnetic resonance imaging (MRI). This position will be dedicated to the development of new methods for image processing, neuroanatomical localization, statistical analysis, and neural systems modeling. Background in neuroscience, image processing, mathematical modeling, and statistics desired. The position is located at the NIH campus in Bethesda, Maryland. Applicants should send current curriculum vitae and a letter discussing research interests and experience to:

James V. Haxby, Ph.D.
Laboratory of Neurosciences, NIA
National Institutes of Health
Building 10, Room 6C414
9000 Rockville Pike
Bethesda, MD 20892

Position information and qualification requirements may be obtained by contacting: Dr. James V. Haxby at (301) 496-5882 or FAX: (301) 402-0595.

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APPLICATION BIOCHEMIST/PROTEIN PURIFICATION

Responsibilities include the development of processes and protocols for the analysis and downstream purification of proteins, antibodies and enzymes, the preparation of reports and technical publications and patents. The successful candidate must have a MS or PhD in Biochemistry or a related field. Experience in protein isolation/purification and supporting technologies a must. Experience in pharmaceutical/biotech manufacturing is desirable.

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Responsibilities include the design and implementation of laboratory experiments for the characterization of novel proteins as therapeutic agents in conjunction with the company's patented technology for drug delivery. The individual will provide application support for the design of new and novel therapeutic antibodies, peptides and proteins. The successful candidate will have an MS or PhD degree in Biochemistry or a related field and extensive experience in the characterization of enzyme and receptor ligand interaction. Familiarity with molecular modeling techniques is also desirable.

PRODUCT DEVELOPMENT ENGINEER

Responsibilities to establish and support downstream membrane and chromatographic processing systems for the purification of protein and peptide therapeutic agents. Familiarity with current downstream process equipment and instrumentation, CIP and SIP procedures and process validation required. An MS or PhD degree in appropriate discipline is also required.

APPLICATION BIOCHEMIST/PROTEIN CHARACTERIZATION

Responsibilities include isolation and purification of proteins and antibodies for amino acid sequence determination using state-of-the-art instrumentation. Peptide mapping and optimization of structural modification strategies and techniques. The successful candidate will have experience with micro protein manipulation techniques and amino acid sequencing/aminoc acid analysis. Familiarity with commercially available software for protein structure analysis is desirable. An MS or PhD degree in Biochemistry or a related field is required.

ASSOCIATE DIRECTOR BIOCHEMISTRY

Responsibilities include development of protein purification protocols based on chromatographic and membrane technologies for scale up and downstream processing, evaluating protein purity and activities relative to therapeutic strategies, and communicating data both written and oral. The successful candidate will have experience in chromatography or proteins and membranes, processes (microfiltration/ultrafiltration), HPLC techniques, protein chemistry and analytical techniques. A strong publication/patent record is required and strong written and oral skills necessary. Management experience in a pharmaceutical/biotech setting a plus. A PhD in Biochemistry or related field is required.

SCIENTIST/PRODUCT DEVELOPMENT

You will be required to develop procedures for protein modification according to GMP and GLP guidelines, scale-up operations and analytical method development. Qualified candidates must possess a PhD in chemistry, biochemistry or equivalent with a minimum of 0–10 years of practical experience in protein chemistry, enzymology and parenteral operation.

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POSITIONS OPEN

POSTDOCTORAL RESEARCH ASSOCIATE. NIH-funded position available 1 July 1991 to conduct research on snake venoms. Candidates should have experience with techniques of protein biochemistry. Applications accepted until position filled. Send curriculum vitae, brief description of research experience, and the names of three references to: Dr. Charlotte L. Ownby, Regents Professor and Head, Department of Physiological Sciences, Oklahoma State University (OSU), Stillwater, OK 74078. Telephone: 405-744-6750. FAX: 405-744-8263. OSU is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE IN ONCOLOGY. The incumbent in this position will be responsible for in vivo experiments aimed at assessing the effect of hyperthermia on the pharmacokinetic distribution of platinum-containing anti-cancer compounds. These experiments are part of a large program in which the effects of hyperthermia on chemotherapy and radiation therapy are being assessed. Applicants should have knowledge of cancer biology, mammalian physiology and pharmacology, pharmacokinetics, biochemistry, and immunochemistry. Knowledge of cell culture and hybridoma techniques are highly desirable as implementation of these techniques will be forthcoming in the program. The incumbent will also be responsible for identification and pursuit of new areas of investigation in the field of experimental cancer therapy which have the potential to be supported by extramural funds. Minimum requirements: Ph.D. degree in a biologic science; M.D., or D.V.M. desirable. Position availability date: Available immediately. Submit curriculum vitae and three letters of reference to: Dr. Donald Thrall, College of Veterinary Medicine, North Carolina State University, 4700 Hillsborough Street, Raleigh, NC 27606.

RESEARCH ASSISTANT. For northeastern Ohio hospital to perform experiments to analyze transport and intracellular processing of monoclonal antibodies in cultured cells, isolated perfused rat liver and intact rats. No previous experience required in above duties but applicants will qualify with M.S. in biochemistry, cell biology or experimental pathology (with one graduate course each in biochemistry, cell biology, immunology, and statistics) and 6 months of research experience in protein chemistry, chromatography, electrophoresis, HPLC, and immunochemistry. Monday to Friday, 8:30 a.m. to 5:00 p.m., $23,142 per year. Must have proof of legal authority to work permanently in the United States. Send resume in duplicate (no calls) to: J. Davies, JO#1255673, Ohio Bureau of Employment Services, P.O. Box 1618, Columbus, OH 43216.

MOLECULAR BIOLOGISTS

Fort Dodge Laboratories, a leader in the veterinary biological and pharmaceutical industry, is expanding its molecular biology program. Applications are invited for RESEARCH SCIENTISTS with experience in cloning, sequencing, PCR, and production of cDNA or eukaryotic expression systems. Experience in infectious disease research or vaccine development is desirable. Openings exist for B.S., M.S., and Ph.D. level graduates in molecular biology.

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PATHOLOGIST/TOXICOLOGIST. An individual experienced with postmortem examination and histopathology in a variety of species and an interest in wildlife toxicology is sought by the U.S. Fish and Wildlife Service. Duties will include diagnosis of diseases and toxicoses in wildlife and consultation with field biologists regarding interpretation of contaminant residues in tissues. Must be a U.S. citizen. Full performance level for this federal position is GS-13 ($44,348 to $57,650). For information, contact: Dr. Christian Francon, National Wildlife Health Research Center, 6006 Schroeder Road, Madison, WI 53711. Telephone: 608-271-4640. All applicants will be considered without regard to race, creed, color, sex, age, national origin, political affiliation, or any other nonmerit factors.
POST DOCTORAL FELLOWSHIPS

The Biophysics Group (P-6) of Los Alamos National Laboratory has openings for post doctoral fellows in the following areas:

Vertebrate Photoreceptor Biochemistry and Function

Background: Ongoing studies focus upon biochemical, biophysical and computational analyses of the molecular ensembles that support photon transduction in the rod. Emphasis is given to G-protein function.

Current Program: The photoreceptor group in P-6 is now studying the mechanisms that govern the activation of rod phosphodiesterase with special emphasis on the role and function of the G-protein and its subunits. A new model for G-protein function has been developed, which emphasizes mechanisms for regulating rod sensitivity. We are also studying the coordinated regulation of the rod phosphodiesterase and guanylyl cyclase.

Red Blood Cell Biophysics and Biochemistry

Background: New findings have changed our approaches to the study of the determinant of red cell senescence in health and disease.

Current Program: The red blood cell section focuses upon the determinants of red cell aging. New findings help to explain time dependent changes in red cell membrane area and cytosolic volume. Computational analyses define the critical nature of the ratio of membrane area to cell volume. This relationship is helping to determine new approaches to developing improved red cell storage methods and understanding the molecular pathology of diabetic retinopathy.

Qualifications: Both positions require recent Ph.D. in Biochemistry, Protein Chemistry, Biophysics or related areas. Knowledge of enzymology, membrane and protein chemistry and excellent academic credentials are desirable.

Annual salary is $36,666 with excellent benefits.

Interested candidates should send a copy of their CV to Dr. M. W. Bitensky (P-6), MS K480, PD-91-083, Los Alamos National Laboratory, Los Alamos, New Mexico 87545. For additional information contact Dr. M. W. Bitensky at (505) 667-9420.

The Los Alamos National Laboratory is operated by the University of California and is an Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

RESEARCH ASSISTANT. Position immediately available for a person experienced in molecular biology to join a research team working on human breast cancer. M.S. or Ph.D. required; competitive salary and benefits. Send curriculum vitae and references to: Dr. Beatriz Pogo, Box 4131, The Mount Sinai Medical Center, One Gustave L. Levy Place, New York, NY 10029—6574. An Equal Opportunity Employer.

ASSISTANT RESEARCH BIOENGINEER. To work on research on molecular and cell biology of endothelial cells, P.A.B., M.D., or equivalent doctorate with 2 years of postdoctoral experience in related field. Salary commensurate with experience and based on University of California pay scales. Underrepresented minority and women are encouraged to apply. Send curriculum vitae and three reference letters by 1 May 1991 to: Dr. Shao Chien, Department of Civil Engineering, University of California, San Diego, La Jolla, CA 92039—0412. University of California is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ENTOMOLOGIST. The Centers for Disease Control (CDC) is seeking a research entomologist with experience in Lyme disease prevention and control, detection of pathogens in arthropods, and the ability to conduct independent research and publish results. Applicants with a related doctorate degree are preferred. Salary range: $31,116 to $44,348. Duty location: Fort Collins, Colorado. Additional information: J. Pleasen, Box 11, CDC, Atlanta, GA 30333. Deadline: 1 April 1991. CDC is an Equal Opportunity Employer and provides a smoke-free environment.

ANNOUNCEMENTS

THE ROSENSTIEL SCHOOL OF MARINE AND ATMOSPHERIC SCIENCE OF THE UNIVERSITY OF MIAMI SEeks NOMINATIONS FOR THE ROSENSTIEL AWARD

The Rosenstiel Award is presented annually to recognize outstanding achievement and distinction in oceanographic science. The intent of the award is to recognize mid-career individuals who have contributed substantially towards new directions or understanding in their field. This year's award (including a prize of $5000) will be offered for excellence in the fields of marine biology, biological oceanography, or fisheries. Nominations, including curriculum vitae and the names of three referees, should be sent by 15 May 1991 to: Rosenstiel Award Search Committee, Division of Marine Biology and Fisheries, Rosenstiel School of Marine and Atmospheric Science, University of Miami, 4600 Rickenbacker Causeway, Miami, FL 33149—1098.

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Applications are invited from students with advanced training and experience in neuroscience or related biological sciences. Participants’ expenses will be reimbursed by the institute.

For application forms or further information, please write to: Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 1230 York Avenue, New York, NY 10021 or telephone: 212—570—8975.

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An Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

CLINICAL CHEMISTRY FELLOWSHIPS at Mayo Clinic. Seeking applicants for 1- or 2-year fellowships in training programs directed toward qualified individuals (Ph.D. or M.D. required) pursuing careers in clinical chemistry. Individuals completing the program are eligible for certification by the American Board of Clinical Chemistry or for subspecialty certification by the American Board of Pathology. Applicants on file by July (pathology) or October (postdoctoral) 1991 will be considered for appointment in July of 1992. Contact: Mary E. Burritt, Ph.D., Division of Laboratory Medicine, Mayo Clinic, Rochester, MN 55905, for more information. Mayo Foundation is an Affirmative Action/Equal Opportunity Employer and Educator.

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

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