Personnel Placement

ACADEMIC HEMATOLOGY/ONCOLOGY—Board-certified/Board-eligible individual with primary basic research interest to join the expanding combined hematology/oncology program at the Medical College of Virginia and McGuire Veterans Administration Hospital. The selected individual will have adequate protected time to develop his or her program, and we welcome all applications, we are particularly interested in individuals with research programs involving molecular and/or growth factor biology. Send letter of interest and résumé to: Bert Adelman, M.D., Department of Hematology/Oncology, Veterans Administration Medical Center, 1201 Broad Rock Boulevard, Richmond, VA 23294. An Affirmative Action/Equal Opportunity Employer.

ACADEMIC INFECTIOUS DISEASES IMMUNOLOGY RESEARCH

GUTHRIE RESEARCH INSTITUTE

Applications are invited for a joint staff appointment at the Guthrie Clinic and the Guthrie Research Institute, the basic research components of the Guthrie Clinic/Medical Center complex located in Sayre, Pennsylvania. The position would involve 25% time doing clinical infectious disease research at the Guthrie Medical Center and 75% time doing basic immunology research at the ASSISTANT OR ASSOCIATE SCIENTIST level. The Institute is directed towards the study of basic immunology. Experiments will involve cellular and biochemical aspects of cell-mediated cytotoxic responses; macrophage immunology and the production of cytokines, the role of lymphoid lymphoma surface antigens and cytokines. Sufficient start-up funds are available for a developing scientist, and abundant opportunities exist within the Medical Center for clinical research and basic-clinical collaborations. The Medical Center and Research Institute are attractively located in scenic northeastern Pennsylvania, and affordable housing is complemented by abundant nearby recreational and cultural facilities. Interested candidates should submit their current vitae and statement of interest to: Frederick B. Rose, M.D., Chief, Infectious Diseases, Guthrie Clinic, Sayre, PA 18840.

ALFRED FLITER MOORE PROFESSORSHIP IN OPTHORNICS—A chaired professorship has been established in the Department of Electrical Engineering. The person appointed to this chair will be a distinguished scholar who has performed outstanding theoretical and practical research in ophthalmics as related to communications, sensing, signal processing or device physics for systems applications. The scholar must be able to exercise scholarly leadership in the field. It is hoped that the appointee will be able to assume tenure by September 1989. Applications will be reviewed by a committee directed by 28 February 1989 to: Professor Nabib F. Harbat, Chair, Alfred Fliter Moore Professorship in Optronics Search Committee, University of Pennsylvania, Electrical Engineering Department, Philadelphia, PA 19104-6390. Equal Opportunity/Affirmative Action Employer.

ANATOMY/CELL BIOLOGY

Tenure-track position as ASSISTANT PROFESSOR in Human Biology beginning 28 August 1989. Ph.D. required. Primary teaching responsibilities will be introductory anatomy and physiology, cell biology and comparative anatomy, with opportunities to participate in biology and graduate programs as needed. Opportunities are available for interdisciplinary teaching and research is expected. Send curriculum vitae, a letter of interest with three letters of reference by 10 March 1989 to: Dr. T. Sager, Human Biology, ES 301, University of Wisconsin-Green Bay, Green Bay, WI 54311-7001. Equal Opportunity/Affirmative Action Employer.

ASSISTANT OR ASSOCIATE PROFESSOR, BIOLOGY: Tenure-track position available August 1989. Ph.D. required. Primary teaching responsibilities will be introductory botany and general science. Specialization in biology, especially taxonomic and ecologic fields of botany is desired. Send letter of application, curriculum vitae, all undergraduate/graduate transcripts, and three letters of recommendation by 14 March 1989 to: William Brunchnick, Chair, Search Committee, University of Wisconsin-Whitewater, Whitewater, WI 53190. Women, members of minority groups, persons with disabilities and Vietnam-Veteran veterans are encouraged to apply.

ATMOSPHERIC MODELER/University of South Carolina. The University of South Carolina invites applications for a tenure-track position in the Marine Science Program and Department of Geological Sciences. The position, which is partially funded by the United States Geological Survey, will involve climate modeling on the regional scale, coupled atmosphere/ocean modeling, and coupled atmosphere/hydrosphere modeling. A Ph.D. in atmospheric science or equivalent is required. The candidate will be given to applicants with a strong background in modeling fluid mechanics and thermal processes. Experience with general circulation models such as the NCAR Community Climate Model and the GFDL ocean model with parallel processing computers will be useful. A Ph.D. is required at the time of appointment. Rank and salary will be commensurate with experience. The applicant should send a letter of application, a cover letter stating research and teaching interests, reprints of representative papers, and three letters of recommendation to: Dr. James C. Evans, Department of Geological Sciences, University of South Carolina, Columbia, SC 29208. Open until filled. Review of applications will begin 15 March 1989. The University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, DEPARTMENT OF PATHOLOGY

The Department of Pathology, Medical College of Ohio, seeks an innovative molecular biologist to: (i) lead basic research in diagnostic pathology as part of the clinical pathology laboratory service and, (ii) initiate a strong research program in molecular carcinogenesis. Other responsibilities would include teaching of medical students and graduate students. Applicant should have an M.D. and/or Ph.D. with postdoctoral experience. Salary and fringe benefits are competitive. The deadline for receipt of application materials is 15 March 1989. The University of South Carolina is an Equal Opportunity/ Affirmative Action Employer.

POLICY: NOTE: The position is available for a Vertebrate Zoologist/Vertebrate Ecologist, #20752. Interest and expertise in animal behavior, particularly reproductive behavior, is particularly desirable. One term position is for a Non-vacational Botsa, #21335, to teach introductory botany, and special-
ASSISTANT/ASSOCIATE PROFESSOR OF MEDICAL ONCOLOGY

The University of Colorado Health Sciences Center, Denver, Colorado, is seeking an M.D. or Ph.D. for a tenure-track position (specialty track) for after 4 years, who is interested in starting an independent laboratory-based research program. The position will involve no clinical responsibilities, with 100% protected time for laboratory research. Minor teaching or patient care roles may be undertaken at individual’s discretion, and joint appointments can be arranged with other medical school departments. Laboratory space is available with appropriate funds for equipment and technical support during the transition to independence. Starting salary will be competitive, commensurate with experience. Applicants should submit curriculum vitae to: Dr. L. Michael Glode, Division of Medical Oncology, University of Colorado, 4200 East 9th Avenue, Denver, CO 80262. An Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR—MICROBIOLOGY

The St. Louis College of Pharmacy invites applications for a full-time (9 month) tenure-track position in microbiology starting fall 1989. Applicants should possess a Ph.D. in microbiology with special interest in medical microbiology. Responsibilities include teaching a survey course for nursing students and a two-semester sequence for pharmacy students. Send curriculum vitae, graduate transcripts, and three letters of references. Deadline for applications is 1 March 1989. Send résumé and names of three references by 1 March 1989 to: Dr. R. J. Cooper, Director, Division of Biological Sciences, St. Louis College of Pharmacy, 4588 Chouteau Ave., St. Louis, MO 63110. An Equal Opportunity Employer.

BIOCHEMIST, ASSISTANT RESEARCH level, available immediately to study the structure, mechanism of action and regulation of expression of lipogenic enzymes and to determine the role of lipid metabolism in hepatic disease states. Experience in techniques of enzymology (enzyme purification and characterization, kinetic studies, protein chemistry and amino acid sequence) and molecular biology (DNA library construction and screening, DNA cloning, isolation and sequencing). Send résumé and names of at least two references to: Children’s Hospital Oakland, Human Resources, 747 52nd Street, Oakland, CA 94609. Equal Opportunity Employer.

UNIVERSITY OF ALBERTA

FACULTY OF REHABILITATION MEDICINE—CEREBROVASCULAR OR CARDIOPULMONARY POSITION

Applications are invited for a tenure-track position in the Department of Physical Therapy at the University of Alberta. Applicants must possess a doctorate and have an active research program in physical therapy. The position requires a Ph.D. in rehabilitation. Applicants should have research and teaching capabilities in cardic and/or pulmonary rehabilitation and exercise. Other areas such as health education, occupational physiology and conditioning would be an asset.

The University of Alberta offers Bachelor of Science and Master of Science degrees in physical therapy. A Ph.D. in rehabilitation is proposed. The position requires a Ph.D. in physical therapy and postdoctoral experience would be an asset.

The University of Alberta offers Bachelor of Science and Master of Science degrees in physical therapy. A Ph.D. in rehabilitation is proposed. The position requires a Ph.D. in physical therapy and postdoctoral experience would be an asset.

Chair, Department of Physical Therapy

The University of Alberta is committed to the principle of equity in employment.

TRUDEAU INSTITUTE, INC.

BASIC RESEARCH SCIENTISTS

The Trudeau Institute is always interested in receiving applications for tenure-track, full-time research staff positions. The Institute has a long tradition of attracting and retaining highly competent, creative, young investigators. Appointments may be made at the assistant, associate, or full member (professor) levels, depending on scientific ability and past performance. Successful applications will be expected to develop independent research programs in immunology, immunopathology, molecular immunology or related fields.

The Trudeau Institute is a free-standing, not-for-profit, basic research Institute with modern facilities, up-to-date equipment, in-house animal production, efficient management and a reputation for excellence. Current staff interests include: Cancer immunology, transplantation immunology, immunity to infectious and allergic diseases, enzyme purification and the production and function of cytokines. Adequate start-up funding for new projects is available from Institute sources, and working conditions are conducive to a productive career in research.

Applications consisting of curriculum vitae, the names and addresses of three references, and a brief description of research interests should be addressed to:

Dr. Robert J. North, Director
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983

BIOLOGISTS—The Claremont Colleges: Two full- and one half-time sabbatical replacement positions for 1989-90 teach genetics or physiology plus introduc- tion to research for new faculty. The Claremont Colleges, 150 East 10th Street, Claremont, CA 91711. An Affirmative Action/Equal Opportunity Employer.

Chair, Department of Pharmacology

The Board of Trustees of the University of St. Louis School of Medicine is conducting a search for a chair for the Department of Pharmacology. Applicants are sought from individuals who have both a demonstrated scholarly productivity in an active research program and an acknowledged history of providing quality education to medical and graduate students. Stanford University is committed to increasing representation of women and members of minority groups in its faculty and particularly encourages applications from such candidates. Interested persons should submit their curriculum vitae to: Dr. Byron W. Brown, Jr., Chairman, Search Committee, Department of Pharmacology, University of St. Louis School of Medicine, 800 South 4th Street, St. Louis, MO 63104. An Equal Opportunity/Affirmative Action Employer.

Chair—Microbiology and Immunology

The Oregon Health Sciences University School of Medicine is seeking applicants for the position of Chair of the Department of Microbiology and Immunology. The candidate will have a strong research program, be an active educator, be in a tenure-track position and must be eligible for tenure. The successful candidate will be expected to pursue extramural funds for the vigorous growth of that program. Extensive opportunities for collaboration exist in the Departments of Biochemistry, Cell Biology, Pathology, Physiology, Pharmacology, Microbiology and Biotechnology. Please forward curriculum vitae, a summary (one to two pages) of future research plans, and the names and addresses of at least three references to: The Chair, Search Committee, Department of Pharmacology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01655. Applications will be reviewed beginning in January 1989, but will be accepted until the position is filled. The University of Massachusetts is an Equal Opportunity/Affirmative Action Employer.

Chairman of Pathology

New York Medical College

A Medical University

Valhalla, New York

Nominations and applications are invited for the position of Chairman of Pathology at New York Medical College. The position requires a strong academic and research program in pathology, experience in teaching students of medicine, an interest in graduate education, and have demonstrated administrative and scientific abilities. Applications with curriculum vitae and bibliography and names of three references should be sent to: John C. Maguire, M.D., Chairman, Search Committee, Department of Pathology, New York Medical College, Valhalla, NY 10595. New York Medical College is an Affirmative Action/Equal Opportunity Employer.

Y. T. Chen, M.D., Ph.D.
Associate Professor of Pediatrics
Division of Genetics and Metabolism
Department of Pediatrics
P.O. Box 3028
Duke University Medical Center
Durham, NC 27710

Science, Vol. 243
**BS/MS DEVELOPMENTAL TOXICOLOGIST**

**Toxicology Division**

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. In 1988, Lilly invested over $500 million in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs. To further build its research capabilities, Lilly is seeking self-motivated, innovative scientists for the Toxicology Division.

- To design and supervise reproduction/teratology studies on potential pharmaceutical and agricultural products.
- To analyze data and write reports for studies performed in Developmental Toxicology area.
- Bachelor's or Master's degree in Biology, Anatomy, Toxicology, Pharmacology, Physiology, or a related discipline is required.
- Expertise in conducting and reporting Reproduction and Teratology studies is preferred.
- Excellent oral and written communication skills are necessary.

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

For prompt consideration, please forward your résumé to:

- Maria L. Poor
- Science Recruitment (AT-4)
- Eli Lilly and Company
- Lilly Corporate Center
- Indianapolis, Indiana 46285

---

**DIRECTOR**

**EPPLEY INSTITUTE FOR RESEARCH IN CANCER AND ALLIED DISEASES**

**UNIVERSITY OF NEBRASKA MEDICAL CENTER**

The University of Nebraska Medical Center invites nominations/applications for the position of Director of the Eppley Institute. The Eppley Institute currently has a multidisciplinary faculty of approximately 20 members holding joint appointments in various academic departments, and a total staff of approximately 120. It has been designated as one of 15 NCI Laboratory Cancer Research Centers and has received a Special Institutional Grant from the American Cancer Society. Graduate students and postdoctoral fellows are supported partially by an NIH Training Grant. The Director is responsible for all the activities of the Institute and reports directly to the Chancellor of the Medical Center.

The successful applicant should have an outstanding record of scientific accomplishment that would qualify him/her for the rank of Professor in a basic science department. The individual must be familiar with the activities of a modern health science center, cancer research funding programs and/or agencies, and have significant administrative experience. Evidence of an ongoing program in basic cancer research also is essential. Applicants should submit a current curriculum vitae and the names of three individuals who will serve as references. Closing date for receipt of applications/nominations is 15 February 1989. Applications/nominations should be sent to:

William O. Berndt, Ph.D.
Vice Chancellor for Academic Affairs
Room 5009 Conkling Hall
University of Nebraska Medical Center
42nd and Dewey Avenue
Omaha, Nebraska 68105

The University of Nebraska Medical Center is an Affirmative Action/Equal Employment Opportunity Employer.

---

**Project Manager**

The Project Management Division of Smith Kline & French Laboratories is seeking individuals for multiple level positions with the appropriate knowledge and experience to assist in the design of new drug development strategies and identification of project milestones and objectives. Working with a Project Director and Project Team, the Project Manager will identify problems and determine solutions, coordinate and manage the submission of plans, monitor and document project-related activities.

The successful candidates will have:

- B.S./M.S. in a biomedical field.
- MBA, M.D., Ph.D. & Pharm. D. strongly encouraged to apply.
- Some experience in a biomedical field highly desirable.
- Proven analytical and organizational skills as well as outstanding interpersonal skills.
- Experience managing multidisciplinary teams in a leadership role is a definite plus.

Smith Kline & French Laboratories is located in a new, state-of-the-art research and development complex near Valley Forge, PA. We offer an excellent compensation, benefits and relocation package, as well as opportunities for significant career growth. Qualified candidates should send resume to Barbara J. Schwartz, Employment Administrator, S0071, SK&F Laboratories, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an equal opportunity employer, M/F/H/V.

---

**SK&F**

A SmithKline Beckman Company

*Equal Opportunity Employer*
DIRECTOR OF BIOSAFETY

The College of Veterinary Medicine at Cornell University seeks a Director of Biosafety. The successful candidate will have College-wide responsibility for institutional compliance with University, Local, State, and Federal regulations regarding the acquisition, use, and disposal of hazardous substances. The Biosafety Director will also have faculty responsibilities in the Toxicology Section of the New York State Diagnostic Laboratory which is an operating unit of the College.

Qualified candidates should possess a D.V.M./M.D. degree and have advanced training in clinical toxicology, epidemiology or environmental health. Preference will be given to individuals who have board certification or eligibility in toxicology. Candidates should have exhibited organizational ability, initiative, and skill in correcting biohazard problems.

Candidates should submit a résumé and at least two references by 15 April 1989 to:
Dr. Douglas D. McGregor
Associate Dean for Research
College of Veterinary Medicine
Cornell University
Ithaca, NY 14853

Cornell University is an Equal Opportunity/Affirmative Action Employer.

ECOLOGIST—Tenure-track position, ecosystems focus, available fall 1989. The successful applicant will develop a quality, externally-funded research program, and teach undergraduate, M.S., and Ph.D. students. Appointment expected at assistant professor level, but exceptional candidates may be considered at advanced levels. Lehigh University has both marine and freshwater research stations and is actively developing interdisciplinary programs. Send curriculum vitae, references by 30 March 1989 to: Dr. Melvin L. Epstein, Assistant Professor, Department of Biology.

EXPERT WITNESS NEEDED: I seek an expert qualified to analyze the quality of research project and papers in the area of Nuclear Physics. Topics of papers were 1. “Diffraction Intensity from Vibrating Crystals,” 2. Decay Scheme of 153Hg. 3. Study of Alpha Decay of Neutron Deficient Isotopes in the Lead Region including The New Isotopes Pb (A=188) and TI (A=182). Must be willing to testify in court case against Virginia Tech, will pay fees and expenses, contact: Gerald T. Zerkin, Esq., 2nd and Franklin Streets, Lindeard Tower Professional Centre, Suite 108, Richmond, VA 23219; Telephone: 804-788-4412.

FACULTY POSITION

CELL BIOLOGY

The Department of Biology of the University of Wisconsin–River Falls (UW-RF) invites applications for a tenure-track faculty position at the assistant professor level, effective 1 September 1989. Teaching responsibilities will include cell biology and bacteriology, alternate year offerings in virology and animal cell culture, and participation in introductory biology. Research involving students is encouraged and supported. Applicants must have a Ph.D., experience in cell or tissue culture and demonstrated potential for excellence in teaching. A well-equipped cell culture facility is available in the department and the successful applicant will have the opportunity to participate in implementing a new interdisciplinary major in biotechnology. Applications from qualified women and members of minority groups are particularly encouraged. Please send a letter of application, curriculum vitae, transcripts and three letters of reference by 6 March 1989 to: Dr. Clarke E. Garry, Biology Search Committee, Department of Biology, University of Wisconsin–River Falls, River Falls, WI 54022. UW-RF is a comprehensive university with over 5000 students, offers bachelor's and master's degrees and is ideally located in the scenic Kinnickinnic River Valley just 30 miles from Minneapolis/St. Paul, Minnesota. The University of Wisconsin–River Falls is an Equal Opportunity/Affirmative Action Employer.

OPPORTUNITIES FOR MOLECULAR VIROLOGISTS

Committed To Scientific Excellence

The Sterling Research Group, the worldwide pharmaceutical research and development organization of Sterling Drug, Inc., announces two openings in the expanding antiviral research program in the Microbiology Department at Sterling's Rensselaer, New York facility.

GROUP LEADER

The successful candidate will possess a Ph.D. degree in virology or molecular biology with relevant postdoctoral training and a minimum of 3-5 years industrial experience. The scientist will be expected to supervise and participate in a group applying current molecular techniques to the analysis of the molecular mechanisms of viral replication and pathogenesis of several viruses of biomedical importance. Supervision of senior scientific staff is expected and strong interpersonal and communication skills are required.

SENIOR RESEARCH BIOLOGIST

The successful candidate will possess a Ph.D. in virology or molecular virology with relevant postdoctoral experience. The scientist will be expected to participate in the identification of new molecular targets for chemotherapeutic intervention.

Located near Albany, New York, we offer an attractive salary and benefits package as well as opportunities for professional development in a dynamic environment utilizing a multidisciplinary approach to research. Interested scientists should send curriculum vitae in confidence to:

Mr. John P. Harvey
Employment Manager
STERLING RESEARCH GROUP
A Division of Sterling Drug Inc.
Columbia Tumpke
Rensselaer, New York 12144
A Subsidiary of
Eastman Kodak Company

Equal Opportunity Employer M/F/HV

Career Opportunities in Plant Biology

The Plant Genetics Department at Pfizer Central Research, in conjunction with numerous plant breeding stations worldwide, conducts research and development for DeKalb-Pfizer Genetics, a leading agricultural seed company. We invite applications from scientists eager to join our multidisciplinary team focused on the genetic manipulation of maize. Depending on your experience and interests, you will participate in innovative research focused towards understanding the biochemical and molecular basis of important agronomic traits of maize, and the development of technology to permit the in vitro manipulation of the maize genome. You should have an MS or BS degree with graduate research experience in one or more of the following areas of plant biology:

- Cell Biology
- Molecular Biology
- Biochemistry

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Qualified applicants should submit their resume and the names, addresses, and phone numbers of three professional references to: Mr. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
KUWAIT INSTITUTE FOR SCIENTIFIC RESEARCH

Kuwait Institute for Scientific Research (KISR) is a nonprofit organization with a staff of more than one thousand employees engaged in applied research in the fields of environmental and earth sciences; food resources; engineering; petroleum, petrochemicals and materials and techno-economics.

KISR has the following vacancies:

ORNAMENTAL HORTICULTURIST

- Major Duties:
  - Studying performance of ornamental trees, shrubs and ground covers under arid environment.
  - Investigating and introducing new ornamental plants suitable for hot and arid environment and under saline water conditions.
  - Assessing various cultural practices for establishment of landscaping and ornamental plants.
  - Recommending necessary landscaping practices, greenery activities and turf management.

- Qualifications:
  Applicants should have a Ph.D. in Horticulture with 4 to 6 years experience in ornamental plants, afforestation and landscaping in addition to knowledge of plantation in arid regions and physiological stresses of plants.

DATE PALM TISSUE CULTURIST

- Major Duties:
  - Developing plant tissue culture methodology for micropropagation research on date palms, with eventual inclusion of other plant species.
  - Supervising and coordinating plant tissue culture laboratory activities and providing training in plant tissue culture methodology.
  - Optimizing micropropagation systems for ultimate commercial application.
  - Conducting intensive plant research including nutrition, metabolism, and environmental tolerance.
  - Overseeing and guiding greenhouse acclimatization and establishment of micropropagated plants.

- Qualifications:
  Applicants should have a Ph.D. in one of the basic plant sciences (Botany, Breeding, Physiology) with emphasis on tissue culture and/or advanced molecular genetics and its application in developing new cultivars. Strong background in plant physiology is an advantage. Five or more years of research experience in tissue culture with documented expertise in date palm tissue culture (somatic embryogenesis and/or organogenesis) as well as use of somaclonal variation in developing stress tolerant crop plants. Working experience overseas is an advantage.

KISR offers attractive tax free salaries commensurate with qualifications and experience and generous benefits that include gratuity, free furnished air-conditioned accommodation, school tuition fees for children, contribution to a savings plan, six weeks annual paid vacation, air tickets, free medical care and life insurance.

Interested applicants are requested to send their Curriculum Vitae with supporting information not later than one month from the date of this publication, to:

Director General
Kuwait Institute for Scientific Research
P.O. Box 24885 Safat
13109 Safat—KUWAIT

MANAGER CLINICAL WRITING

Wyeth-Ayerst Research is a leading developer and producer of prescription drugs, biologicals and infant nutritionals. We're firmly committed to advancing the art and science of medicine, having researched and developed hundreds of valuable drug products for the health and well-being of people throughout the world. We have an immediate opportunity in our Clinical R&D department in Radnor for a Manager of Clinical Writers.

As Manager, you will direct and coordinate the daily activities of writers who are preparing new drug applications, manuscripts and abstracts for a wide variety of clinical products. As liaison between writers and other departments, you will provide technical guidance, schedule and review, as well as provide quality control for all writing projects.

The candidate we seek will have a minimum of a BA/BS degree (preferably in biological or chemical sciences) - Ph.D degree preferred - and a minimum of 2 years experience supervising technical writers. A pharmaceutical background and clinical research experience would be significant assets. Proven writing skills as well as excellent organizational and leadership qualities are also required.

We offer a competitive salary and extensive company benefits. For immediate consideration, please send resume and salary history to: Recruitment Manager, Position #316, Wyeth-Ayerst Laboratories, Clinical R&D, P.O. Box 8299, Philadelphia, PA 19101. An equal opportunity employer, M/F/H/V/ responses encouraged.

Senior Scientist
Contact Lens Care Research

Alcon Laboratories, a $500 million plus pharmaceutical manufacturer of ophthalmic preparations and contact lens care products, is currently seeking an innovative biochemist for the Optical Department’s Lens Care Research unit.

Responsibilities will include participation in interdisciplinary team investigations on the nature and mechanism of evolvement of deposits on contact lenses and on development of novel means for prevention and removal of such contaminants. The qualified applicant will possess a Ph.D. degree in Biochemistry with relevant experience in modern biochemical techniques applicable to the separation, identification and quantification of components of the complex mixtures of protein, lipid, mucin and inorganic entities comprising contact lens deposits. Experience in enzyme biochemistry is also desired.

We offer competitive starting salaries, company-paid benefits, an excellent profit sharing plan, and a desirable Fort Worth location with numerous recreational, cultural and economic advantages. If you are seeking an opportunity involving challenging work within a dynamic state-of-the-art research environment, please send resume with salary history to: Sherry H. Rightmer, Employment Supervisor, Alcon Laboratories, Inc., P.O. Box 6600, Fort Worth, Texas 76115.

Equal Opportunity Employer; M/F/V/H + Principals Only, Please
**FACULTY POSITION**

The Department of Pharmacology, Creighton University School of Medicine, invites applications for a tenure-track position at the level of assistant or associate professor. Applicants should have a Ph.D. in pharmacology and 2 years of postdoctoral experience, as well as a commitment to research and an interest in recruiting and mentoring students and graduate students. Current research interests in the Department include pharmacology of secretion, the central nervous system, smooth muscle, neurotransmitters, and cytokine biology. Interested individuals should send a curriculum vitae and the names and addresses of at least three references to: Dr. Frank Dowd, Chairman, Department of Pharmacology, Creighton University, Omaha, NE 68178. Creighton University is an Equal Opportunity/Affirmative Action Employer.

**FLORICULTURE FACULTY POSITION**

Nine-month tenure-track in horticulture, interior plantscaping emphasis available 16 September 1989. Instructor or assistant professor dependent on qualifications. Minimum: Master's or all but dissertation, at least one degree in horticulture, plant science, or closely related field; successful teaching experience. To apply send application letter, summary including education, duties, and types of work experience, honors, professional organizations, publications; official transcripts; three recent reference letters; names, addresses and phone numbers of two additional references by 10 February 1989; or for a detailed job description or for further information, contact: Robert Park, Department of Horticulture, Arizona State University, Tempe, AZ 85287.

**GENETICS APPLICATIONS COMPUTER PROGRAMMER**

Position Responsibilities: Opportunities to become involved in Human Genome Initiative (genetic mapping, physical mapping, and sequencing) and help develop systems for data analysis and integration of data sets at the Center for Genetics in Medicine at Washington University Medical School. Major responsibilities will be construction of genetic linkage maps of human chromosomes. Established program packages will be implemented and new analysis programs developed. Will work directly with laboratory head and other laboratory members and interact on a collaborative basis with members of Genetics Department, Biomedical Computer Laboratory and Computer Science Department. Qualifications: Masters or equivalent experience in either computer science/mathematics with some genetics background or major strength in biology/genetics with exceptional skills in mathematics and programming. Experience in computer programming in C-language required; familiarity with ALL language would be useful. Familiarity with VAX or MICROVAX desirable. Course work in statistics and basic probability theory as well as intermediate calculus and biology required. Start date: February/March 1989. Salary: Commensurate with experience. Application letter, resume, and three reference letters to: Dr. Helen Keller, Professor of Genetics, Genetics Department, Washington University Medical School, Box 8031, St. Louis, MO 63110.

**FACULTY POSITION**

Department of Cell Biology

The newly designated Department of Molecular and Cell Biology seeks to fill a position in its Division of Cell Biology. Applicants should have a Ph.D. in any relevant field and a demonstrated interest in vertebrate biology. The position will be in the Department of Biology which resulted from the recent fusion of the preexisting Departments of Biology and Molecular Biology.

Submit a brief description of proposed research program, curriculum vitae, names of at least three references to: Dr. E. Rothman, c/o A. J. Abel, Department of Biology, Lewis Thomas Laboratory, Princeton University, Princeton, NJ 08544-1014.

Princeton University is an Equal Opportunity/Affirmative Action Employer.

**FACULTY POSITION IN EUKARYOTIC AND/OR DEVELOPMENTAL GENETICS**

The Life Sciences Division of SRI International has an opening for a computational chemist who will work in close collaboration with experimentalists in the application of quantum chemical and empirical energy methods and molecular graphics to specific interdisciplinary projects. Such collaborative projects will include drug design and structural studies of bioactive peptides, proteins, and nucleic acids. Additional responsibilities will include training graduate students in ab initio electronic methods in laboratory workstations. The successful candidate should have the ability to develop their own research programs in the molecular biology and biochemistry field.

The position requires a Ph.D. in computational chemistry with some knowledge of ab initio and semi-empirical quantum methods. Knowledge of these methods to problems in drug development. Some knowledge of statistical mechanics, including molecular dynamic simulations and scientific programming is desirable.


**LICTURER IN BIOLOGY**

The Department of Biology invites applications for a full-time, 1-year, non-tenure-track appointment with the possibility of renewal. The position begins September 1989. Teaching duties include responsibility for an intermediate level course in vertebrate biology, participation in several team-taught introductory biology courses and, where appropriate, in the field of interest. Minimum requirements: A Ph.D. is preferred, and the degree may be in biology, ecology and zoology. Please send résumé, undergraduate and graduate transcripts and three letters of reference to: Dr. John L. Tymoczko, Chairman, Department of Biology, Carleton College, Northfield, MN 55057. Closing date for applications is 1 March 1989. Carleton College is an Affirmative Action/Equal Opportunity Employer.
Applications are invited for the

M.C. Chang
Postdoctoral Fellowships
in
Male Fertility Research
supported by the Andrew W. Mellon Foundation at
The Worcester Foundation for Experimental Biology

The Worcester Foundation's Male Fertility Program emphasizes multidisciplinary approaches to the study of male reproductive biology utilizing state-of-the-art techniques in biophysics, biochemistry, and cell and molecular biology. The faculty and their research interests are:

Lawrence J. Dangott: Receptors and mechanisms of chemical signaling in spermatozoa
Grant Fairbanks: Mechanism of sperm plasma membrane modification during epididymal maturation
Daniel L. Kilpatrick: Gene transcription during spermatogenesis using transgenic mice; paracrine function of testicular peptides development
tion during epididymal maturation spermmaturation, capacitation, and fertilization
John A. McCracken: Studies on sperm maturation, motility, and capacitation using surgical diversion of the male and female ducts
Clare M. O'Connor: Regulation of protein modification and turnover during gametogenesis

George B. Witman: Control of sperm motility during maturation and capacitation; phosphorylation of sperm flagellar proteins
David E. Wolf: Diffusion and control of membrane regionalization, sperm maturation, capacitation, and fertilization
Carol A. Zlomek: Membrane structure and cell polarity in early mouse development

The Worcester Foundation is a private, nonprofit biomedical research institute offering excellent facilities and a stimulating research environment. Please send curriculum vitae and names of three references to the faculty member of interest, c/o Male Fertility Program, Personnel Office, Worcester Foundation for Experimental Biology, Shrewsbury, MA 01545.

Worcester Foundation for Experimental Biology
AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER M/F/H

BS/MS PROTEIN CHEMIST
Molecular Biology Research

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. In 1988, Lilly invested over $500 million in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking a self-motivated, innovative scientist to join the Molecular Biology department and work in a laboratory dedicated to analytical biochemistry. The scientist will work with a state-of-the-art two-dimensional gel electrophoresis image analysis system and a gas phase sequencer.

- Bachelor’s degree with experience or Master’s degree in protein chemistry or biochemistry is required.
- Knowledge of protein/enzyme purification methodology is essential, including HPLC, column chromatography, and electrophoresis.
- Experience in protein sequencing and characterization are desirable.

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

For prompt consideration, please forward your résumé to:

Maria L. Poor
Science Recruitment (AMB-1)
Eli Lilly and Company
Lilly Corporate Center
Indianapolis, Indiana 46285
POSITIONS OPEN

MOLECULAR NEUROTOXICOLOGY

One-year renewable appointment at the RESEARCH ASSOCIATE III level (state-funded, non-tenure-track) available on or after 1 January 1989 to join a multidisciplinary research team investigating molecular mechanisms of insecticide neurotoxicity and the role of altered target sites in insecticide resistance. This person will be responsible for ongoing studies of messenger RNA-directed expression and pharmacological characterization of mammalian and insect neuroreceptors and ion channels. In addition, s/he will have opportunities to interact with and participate in parallel studies of the isolation of receptor and ion channel cDNA inserts. A Ph.D. in pharmacology, toxicology, or other relevant discipline is required; applicants with prior experience in intracellular microelectrode recording and voltage clamp techniques will be given preference. To apply, send curriculum vitae, publications list, and names of three references to: Dr. David M. Soderlund, Insecticide Toxicology Laboratory, Department of Entomology, NYSAES, Cornell University, Geneva, NY 14456. Telephone: 315-787-2304. Cornell University is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR VIROLOGIST

A staff position is available for a person with experience in the molecular biology of primate viruses. The successful candidate will be expected to become involved with research programs involving simian immunodeficiency disease as well as to establish his/her own area of research. Ongoing research includes studies investigating the interactions of opportunistic viruses with Simian Immunodeficiency Virus. The applicant would be expected to obtain research support as well as to work collaboratively with other investigators. Please send résumé, a summary of research interests, and the names of three references by 15 February 1989 to: Dr. Michael Murphy-Corb, Delta Regional Primate Research Center, Three Rivers Road, Covington, LA 70433.

NEUROBIOLOGIST POSITION available. The Departments of Anatomy and Physiology invite applications for faculty positions at the rank of assistant or associate professor. Candidates should have a Ph.D. or M.D. degree with sound training and research experience. The successful candidate will be expected to develop and maintain a strong independent research program, and to participate in teaching medical and graduate students. Some emphasis will be placed on research at the cellular, metabolic or molecular level, but other areas will be considered as well. Start-up funds are available, and s/he will be commensurate with qualifications. The starting date is negotiable. Recruitment will continue until suitable candidates are identified. Please send a description of research interests, curriculum vitae, and the names of three references to: Dr. Timothy Hansen, Neurobiology Program Coordinator, University of Health Sciences/The Chicago Medical School, Soderlund, Insecticide Toxicology Laboratory, North Chicago, IL 60064.

NEUROCHEMIST

The Institute for Sensory Research at Syracuse University seeks applications from individuals working in the area of neurochemistry for a tenure-track position at the level of assistant or associate professor. The successful candidate is expected to develop a strong independent research program and to teach in the graduate neuroscience program. The appointment will begin 1 September 1989. The position is supported by substantial start-up funds and newly constructed laboratory space. Applications should include curriculum vitae, representative reprints, and a statement of aims for future research. Applicants should have three individuals send letters of recommendation. Send all material to: Dr. Gustav A. Engbretnon, Neurochemistry Search Committee, Institute for Sensory Research, Syracuse University, Syracuse, NY 13244-5290. Deadline for applications is 28 February 1989. Syracuse University is an Equal Opportunity Employer.

FACULTY POSITION

PRINCETON UNIVERSITY

The Program in Atmospheric and Oceanic Sciences and the Department of Geological and Geophysical Sciences at Princeton University invite applications for a faculty position within the Program. The position can be filled at either a junior or senior level. Applicants with expertise in any of the scientific fields covered by the Program (geophysical fluid dynamics, meteorology, physical oceanography, climate dynamics, atmospheric and oceanic chemistry) will be considered. We encourage applicants whose research would have strong links with the ongoing activities at the Geophysical Fluid Dynamics Laboratory of the National Oceanic and Atmospheric Administration, many of whose scientists hold faculty positions within the Program. We also seek to build stronger ties between the Program and the Department of Geological and Geophysical Sciences, particularly in the area of paleoclimatology. Those with expertise in the interaction between land surface processes and climate or in other interdisciplinary areas closely related to the research interests of the Program faculty are also encouraged to apply. Please send curriculum vita, statement of research interests, and the names, addresses, and phone numbers of three references to:

Prof. Jorge Sarmiento, Director
Program in Atmospheric and Oceanic Sciences
Princeton University
P.O. Box 308
Princeton, NJ 08542

Princeton University is an equal opportunity affirmative action employer.

HEAD, ENDOTHELIAL CELL RESEARCH

Berlex Laboratories, Inc. is a leader in basic research of endothelial cell function. We currently seek an internationally recognized scientist in the area of endothelial cell biology to join our highly visible team to ensure progress on ongoing programs to initiate new research directions and to be part of future breakthroughs which can be applied to better understanding and novel treatment of atherosclerosis. The successful candidate will have the title of Investigator, the second highest rank in our scientific ladder. To qualify, your background should include a Ph.D. in cell biology, biochemistry, physiology or molecular biology, at least five (5) years of post-doctoral training and an excellent publication record. Experience with endothelial cell biology is highly desirable.

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

At Berlex Laboratories, you will be supported, recognized and encouraged to pursue your scientific career and ideas. In addition to the excellent resources and stimulating research environment, the position offers an attractive salary and benefit package. For immediate, confidential consideration, send your CV and salary history to: Lila Bernstein, Manager, Human Resources, BERLEX LABORATORIES, INC., 110 East Hanover Avenue, Cedar Knolls, NJ 07927. Equal opportunity employer M/W/H/V.
RESEARCH GROUP LEADER
Analytical Development
Clinical Pharmacokinetics Department

This person will be responsible for analytical method development to support clinical studies for investigational drugs. The job responsibility includes development of quantitative drug/metabolite assays employing HPLC, GLC, GC or LC/MS; transferring assays from other Glaxo research laboratories and improving existing assays. This person will work in collaboration with chemists responsible for automated assays, pharmacokineticists who will design and assist in the data analysis of clinical studies, and chemists from a preclinical drug metabolism department who perform drug/metabolite isolation and identification. This person will hire and supervise two M.S. or Ph.D. level people.

Background must include a Ph.D. in Analytical Chemistry or a related area with 3-5 years' experience in the pharmaceutical industry or academia. A strong chromatography background with excellent problem-solving skills are required, as well as experience with a variety of chromatographic techniques (e.g. GC/MS, HPTLC, GC, LC, GC/MS). RIA experience will be useful, but is not required. Computer literacy will be helpful using micro and mainframes and experience using data acquisition systems (e.g. LAS, MAXIMA, NELSON).

Candidates responding to this position should refer to Job #8620X830 on all resumes.

RESEARCH ASSISTANT

Working with our growing research team within the Chemotherapy Department, this key individual will perform basic research studying the biologic, biochemical, and molecular basis of tumor progression and metastasis. The individual will be responsible for the isolation, selection and characterization of metastatic tumor cell variants both in vivo and in tissue culture. Other responsibilities will include: isolation, purification and cloning of genes coding for important proteins/glycoproteins which regulate the metastatic process; and assisting in the operation of screening operations within the laboratory.

Background must include an MS with 2-5 years of experience or BS/BA with 5-10 years experience. The ideal candidate must have experience in tissue culture, electrophoresis (1D/2D) and protein Purification techniques. Experience in antibody production, animal handling, DNA/mRNA isolation, preparation of DNA libraries and a desire to work independently are highly desirable.

Candidate responding to this position should refer to Job #9120X942 on all resumes.

At Glaxo Inc., growth opportunities and up-to-date facilities are complemented by a location (near Raleigh/Durham) that has excellent resources in close proximity. Prestigious universities, scenic vistas, lively recreational areas, and exciting cultural opportunities are all a part of the daily life of the Glaxo professional. Further, we reward talent and creativity with an excellent salary and benefits package (including a completely equipped, on-site athletic facility). Candidates interested in these positions, please send your resume, including salary history and CORRESPONDING JOB*AS MENTIONED ABOVE, to:

Human Resources Department

Glaxo Inc.
PO Box 13398
Research Triangle Park, N.C. 27709
(No Phone Calls, Please)
No Private Agency Referrals, Please
An Equal Opportunity Employer M/F/H/V

Paving the way to a healthier world.
POSITIONS OPEN

OCCUPATIONAL MEDICINE/ENVIRONMENTAL HEALTH (OM/EH). Tenure-track faculty position for senior scientist to direct a newly established Southeastern Environmental Health Evaluation Center at Emory University and an OM/EH educational track in Emory’s MPH Program. Nominations and applications are invited from established clinicians Board-certified in OM and/or Environmental Medicine, having strong records in research that include the direction, management, planning and developing of an OM/EH Center and educational track community programs. Applicants should have teaching and research. Salary is negotiable. Applicants should include current curriculum vitae, the names of three references, and be submitted by 1 February 1989 to Chair, Search Committee, Emory Department of Community Health, 69 Butler Street, SE, Atlanta, GA 30303-3219. An Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGIST

Northeastern University College of Pharmacy and Allied Health Professions is seeking applicants for a full-time tenure-track position at the level of assistant/associate professor. Candidates who can be expected to bring or establish an independent extramurally funded research program in their area of interest as well as maintain an active clinical program. Opportunities exist to develop a curriculum and teach pharmacy students. Teaching experience is preferred. Minimum qualifications required are Ph.D. in pharmacology or related field and evidence of strong academic record. Salary is negotiable. Applicants should send curriculum vitae, names of three references, and fill application materials and send by 1 March 1989. The position will be filled as soon as possible. Northeastern is an Equal Opportunity/Affirmative Action Educational Institution and Employer.

TWO PH.D. STAFF POSITIONS available for a human geneticist, any discipline, and a molecular cytogeneticist. Appointee will develop independent research programs and provide technical and administrative support for the Human Genetic Mutant Cell Repository. Development funds and joint medical school appointments are available. Newly constructed laboratory space and technical assistance will be provided. Salary commensurate with qualifications. Please send curriculum vitae and names of three references to: Dr. Robert J. North, Director, Northeastern University, 700 Huntington Avenue, Boston, MA 02115. Northeastern is an Equal Opportunity/Affirmative Action Educational Institution and Employer.

PLANT PATHOLOGIST OR ASSOCIATE PLANT PATHOLOGIST

Position available immediately at the International Rice Research Institute (IRRI), Philippines, for a virologist to become part of an interdisciplinary team focusing on rice viral improvement and integrated pest management. The person selected will conduct basic and applied research on rice viruses, virus-vector relationships, and virus disease management, and develop an innovative disease control program. Background in molecular biology preferred. Qualifications include a Ph.D. degree with specialization in plant viruses and virus diseases. Experience in serology and electron microscopy essential. Salary and benefits will be commensurate with those of other research scientists in similar positions. Applications will be accepted until 1 March 1989 or until position is filled. Applicants should send curriculum vitae, names of three references or more, and a recent photograph to: Klaus Lampe, Director General, IRRI P.O. Box 933, 1099 Manila, Philippines.

POSTDOCTORAL FELLOW: HHMI-SAN FRANCISCO-UCSF Immunology-Molecular Neurobiology. A position is available beginning summer 1989 in a laboratory studying neurorepeptidergic receptor function, gene structure, and regulation of gene expression. Applicants should have an M.D./Ph.D. or Ph.D. with experience in recombinant DNA techniques is essential. Send curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Donald G. Payan, University of California San Francisco, 3rd and Parnassus, San Francisco, CA 94143.
POSITIONS OPEN

POSTDOCTORAL POSITION available to study site-specific delivery of polymer bound drugs. Experience in synthetic polymer chemistry and/or biochemistry is desirable. Funding ($18,000 to $20,000 per year) is available immediately. Send application letter with experience and research interests, curriculum vitae and three letters of recommendation to: Dr. Jindrich Kopecek, Center for Controlled Chemical Delivery, Department of Pharmaceutics, University of Utah, 421 Wakara Way, Suite 318, Salt Lake City, UT 84108.

POSTDOCTORAL POSITION UNIVERSITY OF COLORADO, BOULDER

Position available immediately for a recent Ph.D. to join an ongoing diversified program investigating the regulation of lung function. Research will emphasize biochemical aspects of lung biology. Applicants should have a strong background in biochemistry or a related discipline. Send curriculum vitae and names of three references to: Ralph J. Altiere, Ph.D., University of Colorado, School of Pharmacy, Campus Box 297, Boulder, CO 80309-0297. The University of Colorado is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

Postdoctoral fellows/research associates: Positions available now through full 1989 to study insulin/growth factor-regulated (Ser/Thr) protein kinases and tyrosine kinase substrates. Multidisciplinary program ongoing in well-equipped, newly renovated laboratories. Experience required in protein purification or monoclonal antibody technology. Send curriculum vitae and names of three references, brief description of background and interests to: J. Avruch, Diabetes Unit, MGH East, Building 149, 13th Street, Charlestown, MA 02129.

POSTDOCTORAL POSITION in MOLECULAR Virology: We are seeking a recent Ph.D. with strong background in molecular biology to join six investigators studying the molecular basis of herpes simplex and varicella zoster virus pathogenesis. Prior experience in virology is not required. Salary range: $21,000 to $25,000. Submit curriculum vitae and brief description of prior research to: Lawrence Stanberry M.D., Division of Infectious Diseases, Children's Hospital Research Foundation (CHRF), University of Cincinnati, Elland and Bethesda Avenues, Cincinnati, OH 45229. CHRF is an Equal Opportunity/Affirmative Action Employer.

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

POSTDOCTORAL POSITIONS are available to work on the molecular biology of adrenergic receptors: Cloning, expression, gene structure, site-directed mutagenesis. Applicants should have a strong background in recombinant DNA technology. Send curriculum vitae and two to three letters of reference to: Dr. Robert J. Lefkowitz and Dr. Marc G. Caron Howard Hughes Medical Institute Box 3821 Department of Medicine Duke University Medical Center Durham, NC 27710

MONOCLONAL ANTIBODY DEVELOPMENT

Research Scientist to establish new laboratory

Affymax Research Institute is a new venture in therapeutic drug discovery based on organic chemistry and advanced immunological science with participation of leading academic and industrial scientists.

Affymax seeks a person with extensive knowledge and experience in monoclonal antibody production with the ability to establish a laboratory and produce, independently, purified MAbs to a wide range of haptenated immunogens and to develop related new methodologies including antidiotypes.

Skill requirements include immunization techniques, cell culture, fusion, hybridoma screening, antibody purification and characterization. Experience with in-vitro techniques is desirable.

A graduate degree in immunology, cell biology or biochemistry is desired. A bachelor's degree with extensive experience will be considered.

Attractive employment conditions in a new, first class facility make this an outstanding opportunity.

Send Resume To:

Chief Scientist

Affymax Research Institute
3180 Porter Drive
Palo Alto, California 94304

HIGH TECHNOLOGY WITH AN INTERNATIONAL FLAIR

As one of the largest oil-producing companies in the free-world, Aramco can provide you with state-of-the-art equipment in an innovative technological environment, and also with an exciting lifestyle in Saudi Arabia.

SENIOR SCIENTIST

Requires a BS or advanced degree in Chemistry and 9 years experience in oilfield related geochemistry problem solving. Will be responsible for analytical methods development, testing/evaluation and training. Hands-on experience in mineralogical work by X-ray diffraction/X-ray fluorescence spectrometry and a working knowledge of Scanning Electron Microscopy required.

RESEARCH SCIENTIST

Requires a BS or advanced degree in Chemistry or Corrosion Engineering with 9 years experience utilizing high pressure autoclave systems in the area of corrosion testing. Responsibilities will include routine high pressure testing of treatment and oilfield chemicals (corrosion inhibitors and demulsifiers, coating and associated materials) and preparation of materials including pre and post evaluation of test results.

For confidential consideration, please send your resume to: ASC, Employment Dept. 06E-010-9, P.O. Box 4530, Houston, Texas 77210-4530.

ARAMCO
**POSTDOCTORAL POSITIONS**

**MOLECULAR BIOLOGY, VIROLOGY, IMMUNOLOGY**

Postdoctoral positions (three) are available for persons to participate in research on the mechanism of Simian Immunodeficiency Virus expression relative to: (i) mechanisms of pathogenesis and development of effective immunopathogenesis, (ii) evaluation of antiviral drugs on aero and in vivo, and (iii) identification of humoral and cell-mediated immune response to SIV infection. Please send curriculum vitae, a summary of research interests, and three names of three references to: Drs. Michael Murphy-Corb, Kenneth Soike, or Louis Martin, respectively, Delta Regional Primate Research Center, Three Rivers Road, Covington, LA 70433.

**TWO POSTDOCTORAL POSITIONS** are available. (i) Protein chemist with experience in immunochromatography or protein modification chemistry to investigate monoclonal antibody-photonsensitizer conjugates as potential agents of cancer photothermotherapy. Familiarity with cell biology and photobiology highly desirable. (ii) Biochemist/cell biologist to investigate the biochemical mechanisms of photostimulated damage to mitochondria of cancer cells. Experience in mitochondrial function studies desirable. Send curriculum vitae to: Dr. T. Hasan, Wellman Laboratories of Photomedicine, Harvard Medical School, Massachusetts General Hospital, Boston, MA 02114. Telephone: 617-726-6996.

**POSTDOCTORAL/RESEARCH ASSISTANT**

**MOLECULAR VIROLOGY—ST. LOUIS UNIVERSITY MEDICAL SCHOOL**

Research on functional protein domains of immunodeficiency virus, adenovirus, and papovaviruses. Send curriculum vitae and names of three references to: Dr. Maurice Green, Chairman, Institute for Molecular Virology, St. Louis University Medical School, 3681 Park Avenue, St. Louis, MO 63110. An Equal Opportunity Employer/M/F/V/H.

**POSTDOCTORAL RESEARCH ASSOCIATE**

A position is available at the level of postdoctoral research associate to plan and carry out research to test for presence of adenosine triphosphate (ATP) and adenyl (ADO) receptors in skin microcirculation, localize them and determine their physiologic role; investigate influence of ATP and ADO on neurogenic and myogenic control of vascular bed in skin, determine influence of ATP and ADO on angiogenesis. Research tools: microsurgical techniques for preparation of skin microcirculation and development of suitable chambers for "hamster skin fold window preparation" (model); bioengineering methods applicable to studies of microcirculation; knowledge of various microscopic techniques; study of modulation of receptor-modulator-receptor interactions. Other duties: participate in teaching program. The annual salary will be $19,000. Applicants with an M.D. degree with 1 year of experience send curriculum vitae and names of three references to: Dr. Jack Hilzheim, State of Tennessee, Department of Employment Security, 1309 Poplar Avenue, Memphis, TN 38104. An Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

**POSTDOCTORAL RESEARCH ASSOCIATE**

Position is available to study the acute and chronic aspects of the negative effect of alcohol on antiglomerular basement membrane disease. Experience in renal physiology and research methods desirable. Send curriculum vitae, description of research interest, and names of three references to: Dr. Abdil A. Abdel Rahman, Department of Pharmacology, School of Medicine, East Carolina University, Greenville, NC 27858. Federal law requires proper documentation of identity and employment eligibility at the time of employment. It is required that this documentation be included with your application. An Affirmative Action(Equal Employment Opportunity) Employer.

**POSTDOCTORAL RESEARCH FELLOW/ASSOCIATE**

Position is available for research on biochemistry of glutathione metabolism and functions involving enzymology, molecular biology, structural studies, and chemical synthesis. Applicant should have Ph.D. or equivalent training. Send curriculum vitae, list of publications, and names of two references to: Dr. Alton Meister, Department of Biochemistry, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Affirmative Action/Equal Employment Opportunity Employer.

---

**TECHNICAL STAFF POSITIONS**

**ACCELERATOR MASS SPECTROMETRY FACILITY**

Several technical positions available to support new NSF-sponsored National AMS facility for ocean sciences within Geology and Geophysics Department at the Institution.

**Staff Chemist:** PhD in Chemistry; experience in radiocarbon research or carbon-based chemical systems to design and operate high throughput sample preparation lab for producing milligram carbon sputter targets. Multiple preparation lines will be developed using a high degree of automation to ensure high precision; collaborating studies of sample preparation methods are anticipated. Evaluation of AMS precision and accuracy will be carried out with other AMS and radiocarbon labs. Available May 1, 1989.

**Staff Engineer/Physicist:** PhD or MS in Physics or Engineering; experience in computer and microprocessor control of accelerators, ion sources, test instruments and robotics required to design and manage hardware and software systems for (i) automated sample preparation lab, and (ii) automated control systems for the AMS and its associated data acquisition, analysis and archiving. Available May 1, 1989.

**Acclerator Engineer:** BS or MS in Electrical or Mechanical Engineering or Physics; experience in electronics, vacuum technology, high voltage equipment required with computer control/robotics experience desirable, to operate and maintain 3 MV tandem accelerator, 2 automated ion sources and vacuum systems, and supervisory and lab utilization. Will participate in testing and installing of system and assist AMS staff in design and construction of fully automated sample preparation lab. Available July 1, 1989.

All inquiries with resume should be sent to Personnel Manager, Box 54P, Woods Hole.

**Woods Hole Oceanographic Institution**

Woods Hole, MA 02543
An equal opportunity employer M/F/H/V.

---

**Assistant Scientist**

Parke-Davis Pharmaceutical Research Division, Warner-Lambert Company, has an immediate opening for an Assistant Scientist in the Arthritis/Inflammation Section of the Pharmacology Department at their Pharmaceutical Research Facility in Ann Arbor, Michigan.

Responsibilities of the position will be to evaluate compounds for effects on human leukocyte functions and apply biochemical techniques to characterize compound mechanisms.

The successful candidate will have:
- BS/MS in biological sciences, with a background in cell biology and biochemistry
- 2-4 years experience with tissue culture techniques highly desirable
- Excellent written and oral communications skills
- Outstanding ability to work as part of a team effort

Employment will be at our modern facilities adjacent to The University of Michigan. For outstanding benefits. Interested, qualified applicants should send curriculum vitae and salary requirements, in confidence, to Ms. S. Hultquist, Human Resources, Parke-Davis, 2800 Plymouth Road, Ann Arbor, MI 48105.

**Parke-Davis**

Division of Warner Lambert Company

"Equal Opportunity in Action"
Assistant/Associate Director of Clinical Research

Immunex Corporation, a Seattle-based biotechnology corporation in the forefront of research and development in immune regulation, hematopoiesis and wound healing, currently has an immediate opportunity for an Assistant/Associate Director of Clinical Research.

The primary responsibilities for this position will include managing and interpreting clinical trials for FDA submission, overseeing data collection activities; monitoring medical questions; and interaction with research and development, manufacturing, regulatory affairs, and physician investigators.

The qualified applicant will have a PhD or MD and 2-5 years of clinical research experience. Experience with biologics is advantageous.

Immunex offers a challenging and rewarding work environment, as well as an excellent compensation and benefits package. For consideration, please submit resume together with the names of three references to: Immunex Corporation, Human Resources Director, Dept. NYT, 51 University Street, Seattle, WA 98101. EOE.

MOLECULAR BIOLOGIST AND BIOCHEMIST

The BOC Group, an innovative world leader in health care products and industrial and specialty gases, has two challenging career opportunities at our state-of-the-art central research laboratories of the BOC Group located at Murray Hill, New Jersey.

MOLECULAR BIOLOGIST

The selected candidate will be research oriented and have a broad knowledge of biotechnology in the pharmaceutical industry. You will participate in defining a biotechnology program within Health Care R&D, for acute and critical care pharmaceutical agents. Additionally, you will serve as the focal point for external contacts with universities and biotechnology companies. The qualified individual will have a Ph.D. in Molecular Biology with at least three years experience and a knowledge of cloning methods, preferably in the area of expression cloning, gene transfer methods, and site directed mutagenesis.

BIOCHEMIST

The selected candidate will be interested in contributing their expertise to a team of computational and medicinal chemists, pharmacologists and molecular biologists identifying new approaches to acute and critical care pharmaceutical agents. This position requires a Ph.D. and 0-2 years of postdoctoral experience, a knowledge of enzymology and protein characterization and ligand interactions. The successful candidate will have excellent analytical skills and be familiar with radioligand binding techniques, methods of enzyme assay, and chromatographic methods.

BOC offers a challenging, and stimulating scientific research career environment, with the opportunity to interact with scientists from many disciplines. We provide an excellent compensation and benefits package. For prompt, confidential consideration, please forward your resume, with salary history/requirements to Jules DuParc, Employee Relations Mgr:

THE BOC GROUP
Technical Center
Box 101, 100 Mountain Ave, Murray Hill, N.J. 07974
(An Equal Opportunity Employer M/F/V/H).

Assistant/Associate Director of Clinical Research

Immunex Corporation, a Seattle-based biotechnology corporation in the forefront of research and development in immune regulation, hematopoiesis and wound healing, currently has an immediate opportunity for an Assistant/Associate Director of Clinical Research.

The primary responsibilities for this position will include managing and interpreting clinical trials for FDA submission, overseeing data collection activities; monitoring medical questions; and interaction with research and development, manufacturing, regulatory affairs, and physician investigators.

The qualified applicant will have a PhD or MD and 2-5 years of clinical research experience. Experience with biologics is advantageous.

Immunex offers a challenging and rewarding work environment, as well as an excellent compensation and benefits package. For consideration, please submit resume together with the names of three references to: Immunex Corporation, Human Resources Director, Dept. NYT, 51 University Street, Seattle, WA 98101. EOE.

RESEARCH ASSOCIATES RENAL & CARDIOVASCULAR PHARMACOLOGY

The Squibb Institute for Medical Research is recognized internationally as a leader in the research and development of novel therapeutic agents for the treatment of cardiovascular and infectious diseases. We currently have an exceptional opportunity available for Research Associates to join our Department of Pharmacology.

Qualified candidates will have an MS in Biology or equivalent or a BS with a minimum of 3 years relevant laboratory experience.

You will be part of a team conducting research on the cardiovascular, renal and hormonal actions of atrial natriuretic peptide with a focus on hypertension and congestive heart failure. This involves setting up models in small and large animals, with an emphasis on in vivo measurements of cardiac, vascular and renal function. Responsibilities also include the acquisition and analysis of data using online and offline software.

For confidential consideration, please submit your resume to: The Squibb Institute For Medical Research, Human Resource Department 013, P.O. Box 4000, Princeton, NJ 08543. An equal opportunity employer.
POSTDOCTORAL RESEARCH POSITION

MASSACHUSETTS GENERAL HOSPITAL
HARVARD MEDICAL SCHOOL
PROFESSOR OF GENETICS

Massachusetts General Hospital and Harvard Medical School are seeking a Professor of Genetics in the Department of Molecular and Experimental Medicine. The successful candidate will be expected to develop a major research and training program in the molecular genetics of development, and participate in the teaching of medical and graduate students. Candidates should have demonstrated scholarly achievement and promise of the highest order. Harvard University is committed to diversity among its faculty and particularly encourages applications from such candidates. Candidates should send curriculum vitae and names and addresses of three references to: Dr. Howard Goodman, Chief, Molecular Biology, Massachusetts General Hospital, Fruit Street, Boston, MA 02114.

Harvard Medical School and Massachusetts General Hospital are Affirmative Action/Equal Opportunity Employers.

RESEARCH ASSOCIATE position available immediately to investigate drug, device, and nanotechnology interactions, and the molecular mechanisms underlying them. Experience in biochemistry, pharmacology, and cell biology is required. Applicants should send a brief statement of research interests to: Dr. Michael Ryan, Dean, College of Pharmacy, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Employment/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL FELLOWSHIP

RESEARCH ASSOCIATE

University of North Carolina at Chapel Hill has an opening for a RESEARCH ASSOCIATE position. The appointment will be made based on potential for academic excellence and without regard to the disciplinary specialization of the successful applicant. Research interests may include, but are not limited to, molecular biology, biochemistry, cell biology, and related fields. The applicant should have a Ph.D. or equivalent degree in a relevant field. Applicants should send a brief statement of research interests and curriculum vitae to: Robert W. Horwitz, Department of Molecular and Cellular Biology, University of California, 9555 Medical Center, Irvine, CA 92612.

UNIVERSITY OF COLORADO HEALTH SCIENCES CENTER

SCIENTIST FOR INTERMEDIATE VOLTAGE EM FACILITY

The Lawrence Berkeley Laboratory, in association with the University of California, Berkeley, is establishing a West Coast Facility for Intermediate Voltage Electron Microscopy. Special features of this facility will include a 600-kV analytical electron microscope, a high-resolution, high tilt, and cryo stage capabilities. The facility will serve two core groups and collaborative and service projects. To maintain the day-to-day operation of this facility, we are looking for an independent, experienced scientist with a Ph.D. degree in biology. The successful candidate will have an understanding of electron optics, software programming, and knowledge of accessory techniques such as cryo-EM and image analysis. He/she will advise users on the proper operation of the instrument and conduct research on new applications of IEM technology. Applicants should send their curriculum vitae, and three letters of reference to: Dr. Manfred Selderscheidt, Deputy Director, EML Facility (Office # 5063) Employment Building, 90-1012, # 1 Cyclotron Road, Berkeley, CA 94720. An Equal Opportunity Employer, M/F/H.

UNIVERSITY OF CALIFORNIA

SCHOOL OF MEDICINE

RESEARCH ASSOCIATE

The Department of Chemistry at the University of California, Berkeley, is establishing an additional Research Associate position. The successful candidate will be expected to develop a major research and training program in the molecular genetics of development, and participate in the teaching of medical and graduate students. Candidates should have demonstrated scholarly achievement and promise of the highest order. Harvard University is committed to diversity among its faculty and particularly encourages applications from such candidates. Candidates should send curriculum vitae and names and addresses of three references to: Dr. Michael Ryan, Dean, College of Pharmacy, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Employment/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL RESEARCH POSITION

The University of Tennessee College of Pharmacy is seeking outstanding candidates for the position of Professor and Chair of the Department of Medicinal Chemistry. Successful candidates will have a strong record of research and teaching in the areas of medicinal chemistry and pharmacology. Applicants should have a Ph.D. in medicinal chemistry or a related field, and be able to demonstrate excellence in teaching and research. Salary is commensurate with qualifications and experience. Applicants should send a brief statement of research interests and curriculum vitae to: Dean, College of Pharmacy, University of Tennessee, Memphis, 874 Union Avenue, Memphis, TN 38163. The University of Tennessee is an Equal Employment/Affirmative Action Employer. Minorities and women are encouraged to apply.

POSTDOCTORAL RESEARCH POSITIONS

The Department of Cell and Structural Biology is seeking candidates for a tenure-track FACULTY POSITION in structural biology and anatomy. The position offers excellent research facilities, especially state-of-the-art equipment for computer imaging of macroscopic and microscopic structures. The sources present unique opportunities for individuals familiar with human anatomy and computer approaches to imaging for research and teaching. Applicable to: The University of Colorado is an Equal Opportunity/Affirmative Action Employer. Women, minorities, and persons with disabilities are strongly encouraged to apply. Interested individuals should submit a complete curriculum vitae, including a one-page description of research plans and the names of three referees familiar with their work. Applications will be reviewed commencing 15 February 1989, and should be sent to: Chairman: Search Committee for Structural Biology Department of Cellular and Structural Biology University of Colorado School of Medicine 4200 East Ninth Avenue, B-111 Denver, CO 80262 The University of Colorado is an Equal Opportunity/Affirmative Action Employer. SCIENCE, VOL. 243
RESEARCH SCIENTIST
PHARMACOLOGY

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

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

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

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

AMGEN
Equal Opportunity Employer

Research Scientist / Peptide Chemist

Triton Biosciences Inc., a subsidiary of Shell Oil Company, is a fully integrated pharmaceutical and diagnostics company focused on product development opportunities in the area of cancer and other life-threatening diseases.

The successful candidate will manage a state-of-the-art peptide chemistry laboratory. Specific responsibilities include solid phase peptide synthesis using t-boc and f-moc chemistry, rapid synthesis technology, peptide structure-function studies, analog development, and epitope mapping for several R&D programs in the cytokine and oncogene area. The position involves both active scientific collaboration and a service component. Candidates should have a Ph.D in peptide chemistry, 4+ years experience, and good organizational and communication skills.

Triton is located in the San Francisco Bay Area and offers competitive salaries and benefits, including relocation assistance. For consideration, send CV, with salary history and references to: Triton Biosciences Inc. Box PH, 1501 Harbor Bay Parkway, Alameda, CA 94501. An Equal Opportunity Employer.

Scientist
Division of Surgical Research
The Hospital for Sick Children

A Scientist position is currently open in the Division of Surgical Research in the Research Institute of The Hospital for Sick Children. The research focus in this Division is transplantation physiology and immunology. The Research Institute of The Hospital for Sick Children is the largest paediatric research institute in Canada. The Institute is based on a firm and secured long-term endowment. Currently, the Institute has 18 research divisions with over 150 principal investigators and 200 trainees supported by a full range of excellent research services. The existing research programmes are strong, innovative and collaborative.

Applicants should have a Ph.D. or M.D. Degree with post-doctoral research training in one of the following areas: transplantation immunology, pharmacology or biochemistry; tumor immunology. The successful candidate will be expected to establish a strong independent programme and will be encouraged to interact with other basic or clinician scientists in the Research Institute. Excellent office and laboratory space and equipment are available in the Division of Surgical Research. Salary, rank and start-up funds are negotiable. The successful candidate will be appointed to the Department of Surgery of the University of Toronto.

Please send a curriculum vitae and the names of three references should be submitted, quoting file #C160A and post-marked no later than March 15, 1989, to: Cho Y. Pang, Ph.D., Chairman of the Search Committee, Division of Surgical Research, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario, Canada M5G 1X8
VETERINARY MICROBIOLOGIST
DIAGNOSTIC LABORATORY

Assistant director of multi-functional veterinary microbiology and mycology laboratory. Share with director technical and operational responsibilities; must develop strong individual research program in bacteriology or infectious diseases of animals commensurate with mission of the Diagnostic Laboratory. D.V.M. and/or Ph.D. in microbiology with appropriate experience and knowledge in clinical microbiology and infectious diseases. Preference for emphasis, interest in anaerobic and enteric bacteriology, mycopathology, or clinical mycology. Title and salary commensurate with qualifications and experience. Tenure-track appointment available. Submit curriculum vitae to: Sang Shin, D.V.M., Chairman Search Committee, Diagnostic Laboratory, College of Veterinary Medicine, Cornell University, Ithaca, NY 14853-6401.

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

VIROLOGIST

Technician performing disinfectant testing and tissue culture cytoxity. Experience with HSV, Polio, Influenza, and Rhino viruses helpful. Salary: $18,000 to $24,000 per year. Gilbott Labs, 122 Fairfield Road, Fairfield, NY 10070.

ASSISTANTSHIPS

GRADUATE PROGRAM IN NEUROSCIENCE

The Neuroscience Program at University Hospital at The Milton S. Hershey Medical Center of the Pennsylvania State University has an assistantships available in August 1989. This interdepartmental program is designed to confer a Ph.D. degree with a major in neuroscience. Participating faculty have established research programs in molecular biology of the nervous system, neurophysiology, neuroendocrinology, behavioral science, neuropharmacology, neurochemistry, and cerebral blood flow and metabolism. Interested candidates are invited to apply to: Dr. Robert B. Page, Director, Neuroscience Program, P.O. Box 850, Hershey, PA 17033. An Equal Opportunity/Affirmative Action Employer.

Minimum 4-year GRADUATE RESEARCH AND/OR TEACHING ASSISTANTSHIPS in plant biology are available for highly qualified students seeking Ph.D. degree starting September 1989. Specific program specializations include, but are not restricted to, photosynthesis; cell and molecular biology, developmental anatomy/morphology; physiological ecology and community ecology; systems biology and evolution; weed science. For information, contact: Dr. Alan Stemler, Botany Graduate Group Admissions Chair, Botany Department, University of California–Davis, Davis, CA 95616, or call: 916-752-7094, Graduate Group Admissions Office.

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

COURSES

MARICULTURE: CULTURE OF MARINE INVERTEBRATES FOR RESEARCH PURPOSES. Designed to teach the basics of mariculture to advanced students, this course is scheduled for 21–27 May 1989. Tuition: $850 (includes room and board). Application deadline is 1 April 1989. For further information, contact: Admissions Coordinator, Marine Biological Laboratory, Woods Hole, MA 02543. Telephone: 508-548-3705, extension 216.

AUTORADIOGRAPHY IN ELECTRON MICROSCOPY a residential laboratory course

Woods Hole, 21–26 May 1989

Woods Hole Educational Associates

PO Box EM

Woods Hole, MA 02543

Telephone: 508-540-5594

Monsanto Company
Animal Sciences Division - Research

Senior Research Scientist/Biochemist

We're Monsanto, a worldwide company that continues to make technological advances in a range of products and industries. We currently have an exciting opportunity available in our Animal Sciences Division.

You will join a dynamic research team organized to identify and develop new products that enhance the quality and efficiency of meat animal growth. You will specifically be responsible for organizing a research effort focused in the regulation of cellular growth and development.

To qualify, you must have a Ph.D. in Animal Science, Biology or Biochemistry, with emphasis on cellular growth and development. Post-doc experience is desirable but not essential. Muscle, chondrocyte and/or adipose cell culture experience is also required. The incumbent will have a strong in vitro base with a desire and ability to relate these results to whole animal physiology.

We offer a highly competitive salary and benefits package. For consideration, send your resume to: John R. Amato; MONSANTO COMPANY; BB2A; 700 Chesterfield Village Parkway; Chesterfield, MO 63198. An Equal Opportunity Employer M/F/H/V.

Research Scientists

IMMUNOLOGY AND MOLECULAR BIOLOGY

Bionetics Research Institute conducts cancer research and product development as part of the Pharma Division of Akzo, NV, an organization operating in 50 countries worldwide.

IMMUNOLOGY — We are currently seeking an experienced Research Scientist to develop and characterize new murine monoclonal antibodies for use in commercial immunoassay development and supervise the hybridoma laboratory staff of four. Duties will be performed in cooperation with the animal resources and product development laboratories. This position will report to the Director, Diagnostic Product Research Laboratory. The successful candidate will have a Ph.D. in immunology or related discipline and several years’ postdoctoral monoclonal antibody research with publications.

MOLECULAR BIOLOGY — We are also seeking a Research Scientist to direct a small technical staff in basic research for diagnostic test development. Antigens to be targeted include human retroviruses. The successful candidate will have a Ph.D. in molecular biology or related discipline and expertise in the generation of cDNA libraries; manipulation of plasmids and vectors; expression in prokaryotic and eukaryotic cells; assay development; DNA sequencing, as well as proven writing skills through publications. BRI offers excellent benefits including health, life and dental insurance and a generous, company-matched savings plan.

For consideration, please submit a C.V., including salary requirements to:

BIONETICS RESEARCH INSTITUTE

1330-A Picard Drive, Dept. S-127

Rockville, MD 20850

BRI is an equal opportunity employer, M/F/H/V. Principals Only.
BS/MS INHALATION TOXICOLOGIST
Toxicology Division

For more than a century, scientists at ELI LILLY AND COMPANY have developed innovative, high quality pharmaceutical products. In 1988, Lilly invested over $500 million in research-and-development programs. More than 3,000 scientists at the company's Lilly Research Laboratories are pursuing creative research programs that involve many important health care needs.

To further build its research capabilities, Lilly is seeking a self-motivated, innovative scientist for the Toxicology Division. The ideal candidate will have the following qualifications:

- Bachelor's or Master's degree in toxicology, pharmacology, bioengineering, or a related discipline.
- Experience in conducting inhalation toxicology studies with animal models.
- Experience in pulmonary physiology is desirable, but not essential.
- Excellent organizational and communication skills.

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

For prompt consideration, please forward your resume to:
Dr. Ronald K. Wolff (ATT-1)
Eli Lilly and Company
P.O. Box 708
Greenfield, IN 46140

CAREER OPPORTUNITIES
FOR SENIOR SCIENTISTS

As one of California's most progressive pharmaceutical companies, Vical is focusing on new drug designs and more effective drug delivery methodologies. Currently, we're developing new therapeutic products in the areas of antiviral agents and therapeutic protein delivery enhancement, and several other major programs are underway. This translates into outstanding opportunities for the following experienced professionals.

DIRECTOR OF BASIC RESEARCH

Major responsibilities entail supervision of research in pharmacology, endocrinology, organic chemistry and virology. The ideal candidate will be a senior scientist with 8-12 years experience in the pharmaceutical industry in the design and management of pharmaceutical research programs.

PHARMACOLOGY GROUP LEADER

Leading our Pharmacology/Physiology Department, major responsibilities entail direction of research in therapeutic protein delivery, pharmacokinetics and toxicology. The ideal candidate will have significant pharmaceutical experience in one or more of the following areas: animal models of disease, pharmacokinetics, toxicology and immunoassy.

Vical rewards your efforts with excellent benefits. Salary and equity commensurate with experience. For immediate consideration, please send resume to: Human Resources Dept., Vical Inc., 9373 Towne Centre Dr., Suite 100, San Diego, CA 92121.

VICAL INC.
Equal Opportunity Employer

Career Opportunity
In Physical Oceanography

Battelle, Pacific Northwest Laboratories has an opening in its Marine Science Laboratory at Sequim, Washington, for a Senior Research Scientist-Physical Oceanographer.

The successful candidate will be the lead scientist for physical oceanographic research projects conducted in the Global Change Program. This program involves research in the following areas: air-sea interactions; modeling of mixing and radiative transfer in the surface layer; numerical experiments on convection and thermohaline circulation in the ocean; parameterizations of subgrid-scale processes in 3-dimensional circulation models; coupling coastal ocean-estuarine and upland hydrologic models for studies at regional scales.

A doctor's degree is needed, preferably with strong programming skills, supercomputer experience and program development expertise.

For consideration, submit resumes to: Anthony F. Gasperino, Battelle, Pacific Northwest Laboratories, P.O. Box 999, Dept. 079, Richland, WA 99352. U.S. Citizenship Required. An Equal Opportunity Employer.

Battelle
Pacific Northwest Laboratories
EVENTS

GRADUATE TRAINING PROGRAM

GRADUATE ASSISTANSHIPS IN MOLECULAR BIOLOGY AND BIOCHEMISTRY. Several positions are available in the Department of Molecular Biology and Biochemistry, Wesleyan University (Middletown, Connecticut). Research interests of the faculty emphasize regulation of gene expression in embryogenesis and development, gene regulation and nucleic acid interactions; chemistry of reactions at phosphorus; nuclear magnetic resonance spectroscopy and computer modeling. All students receive tuition remission, a good fringe benefit, and dependency allowance if applicable. Opportunities to teach. Write to: Dr. Norma Allevoll, Director Graduate Admissions, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06457 or call: 203-347-9411, X2524.

FELLOWSHIPS

GEORGE S. WISE POSTDOCTORAL FELLOWSHIPS. The George S. Wise Faculty of Life Sciences at Tel Aviv University offers each year postdoctoral fellowships commencing on 1 October at a stipend of $25,000. or more. Financial assistance can be obtained from the George S. Wise Foundation for Advanced Studies. Interested candidates are invited to apply. Write: Dean, The George S. Wise Faculty of Life Sciences, Tel Aviv University, Tel Aviv 69978, Israel. Deadline for applications is 30 May of each year.

POSTDOCTORAL FELLOWSHIP BIOCHEMISTRY AND MOLECULAR BIOLOGY. Available immediately for 2 to 3 years, for a qualified M.D. or Ph.D. sponsored by the Department of Pathology and the Division of Cardiology to study receptor(s) for angiotensin II and other vasoactive hormones. The group provides expertise and state of the art technology in molecular and cellular biology. Position could lead to faculty appointment. Experience in receptor biology and biochemistry required. Salary negotiable. Please send curriculum vitae and references to: Ken Bernstein, M.D. or Wayne Alexander, M.D., Room 713 WMB, Emory University, Atlanta, GA 30322. Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS

HARVARD SCHOOL OF PUBLIC HEALTH INTERDISCIPLINARY PROGRAMS IN THE RAl

POSTDOCTORAL FELLOWSHIPS

The Program in Environmental Health and Public Policy invites applications from promising graduates of advanced degree programs in the natural or social sciences. The program focuses on the scientific and analytical foundations for environmental decisions. In addition to conducting individual research, fellows are encouraged to collaborate with each other and faculty members on projects of mutual interest. Recent group projects have considered approaches for regulation of toxic air pollutants, strategies for environmental monitoring and implications of dietary exposure. Fellowships will be appointed for a term of 1 year starting September 1989. Award may be renewed. Applications deadline: 10 March 1989. Decisions announced in April.

FELLOWSHIPS

PREDOCTORAL FELLOWSHIPS IN BIOMEDICAL AND PHYSICAL SCIENCES

Applied Mathematics  Biochemistry  Biology  Biocomputing  Biomedical Engineering  Biophysics Sciences  Biostatistics  Chemistry  Computer Science  Cell Biology and Anatomy  Environmental Health  Epidemiology  Genetics  Immunology  Materials Engineering  Materials Science  Medical Genetics  Medical Microbiology  Molecular Cell Biology  Neuroscience  Nutrition Sciences  Pathology and Pharmacology  Physics  Physiology  Optics  Physiology

Well-funded fellowship with diverse interests. Good post-graduation placement record. Above average stipends include payment of tuition. Ready access to XMP supercomputer. Special fellowship opportunities for minority students. Contact: The Graduate School (A), University of Alabama at Birmingham, Birmingham, AL 35294; telephone: 205-934-8246.

MARKETPLACE

1. Gilford MS240 Spectrophotometer (under continuous service contract)
2. Beckman DU Multiple Monochromator
3. Beckman Sequencer A90C
4. Zeiss (Jena) Laboratory Interferometer
5. Zeiss Microscope with Nomarski optics

All in excellent condition. Prices negotiable.

Call D.R. Sanadi

(617) 742-2010, x330 or x331

Boston Biomedical Research Institute
20 Staniford Street
Boston, MA 02114

DIRECT MAIL FUNDRAISING

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

Call C. Hughey

703-549-8977

NEED DNA FAST?

Custom Sequencing Primers in 26 hours

98% Success Rate. 95% Yield. 94% Homology to Template.

The Medium Certified Reagent Co.

1-800-247-8765

FAX 915-694-2387

3112A W. Coulthard, Midland, TX 79701

Custom DNA

Purified and Delivered in 48 hours.

$10.00 a base for the first 15 bases, $1.75 for each additional base. Unpublished charges. Research Genetics

1-800-533-4363

Circle No. 180 on Readers’ Service Card
A SOFTWARE SYSTEM WITH THE CAPABILITIES MOST NEEDED BY MOLECULAR BIOLOGISTS TODAY

DNASTAR LASERGENE SYSTEMS offer the widest range of molecular biology analysis software available including many unique programs (BEND, MODEL, PROBE, X-RAY, MAPSEQ, R-MAP) but also offer attractively priced networks and multiple user installations or custom packages of individual programs. LASERGENE SYSTEM 190 contains 30 of the 55 programs and databases in the full LASERGENE. And with SYSTEM 190 you can upgrade to LASERGENE.

SYSTEM 190 PROGRAMS:

DATABASES. Complete and unabridged DNA (GenBank) and Protein (PIR) Sequence Data Banks on compact disk PLUS DNASTAR's powerful search and retrieval software, fully indexed for rapid access. Keyword, pattern, matrix, consensus oligonucleotide and sequence comparison searches (query sequence up to 12Kb). Flexible data entry and sequence extraction and search storing.

SEQUENCING PROJECT MANAGEMENT. Full scale automated gel assembly supporting Maxam-Gilbert and dideoxy methods in both random and directed approaches. Complete control over data with comprehensive parameter options. Plenty of capacity for assembling all the gels from large projects. Onscreen merger editing plus vector prescreening.

SEQUENCE ANALYSIS. Translate, reverse translate and identify genes by open reading frames and codon usage frequency. All alternative genetic codes supported. Scan DNA or proteins with powerful biological pattern searching options allowing any combination of consensus strings, mismatch, position or order. Scan DNA or proteins for literal and/or ambiguous restriction sites with a database of ~140 enzymes. Comprehensive enzyme subsetting by enzyme characteristics, including cloning overhang compatibility and fill-in.

SEQUENCE COMPARISONS. Similarity searches, fully parameter controlled, for both DNA and proteins using optimised alignments with automatic gapping or using dot plot alignment by sliding window method for an interactive graphics orientated approach.

SECONDARY STRUCTURE FEATURES. Estimation of helix, turn, beta sheet, hydrophilicity, hydrophobic moment, charge, molecular weight, potential antigenic sites and amino acid content in proteins. Search for loop-stem structures in DNA and RNA.

SEQUENCE EDITING, INSPECTION, PRESENTATION. DNA and protein sequence screen editing with cursor orientated functions for composing, reorganising, splicing, cutting, searching sequences, pasting to and from file and to printer. Flexible sequence display and presentation. Production of publication quality circular and linear maps.

ONSCREEN WINDOWS for Help, automatic File Pick Screens and file management, printer and font control and all DOS utilities INSIDE EVERY PROGRAM. Automatic sequence file conversion to and from all major non-DNASTAR format styles.

DNASTAR software runs on all IBM/COMPAQ-compatible microcomputers (inc. PS/2) - Apple versions coming. All compatible dot matrix & laser printers & Hewlett Packard Plotters supported. Screen graphics require EGA or higher. UPDATING is quarterly. Each c.d. update contains complete databases to date. DNASTAR software enhancements and new programs distributed quarterly or as released.

DNASTAR, 1801 University Avenue, Madison, Wisconsin 53705, USA.
Tel: (608) 233 5525.
Fax: (608) 251 9685.

DNASTAR, Link House, 565-569 Chiswick High Road, London W4 3AY, UK.
Tel: 01-994 0619.
Fax: 01-747 4748. Telex: (UK) 291432.

LASERGENE SYSTEMS from DNA

Working for the molecular biologist

Circle No. 199 on Readers' Service Card
When You Need It Now...

Pierce Delivers!

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

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

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

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

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

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

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

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

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

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

1-800-8-PIERCE
Outside U.S.: 815-968-0747
In Europe: *31-1860-19277

Circle No. 135 on Readers' Service Card