ONE THING THEY ALL AGREED ON ...

JOBS!! JOBS!! JOBS!!

AAAS EMPLOYMENT EXCHANGE HAS JOBS FOR SCIENTISTS

If you are presently in the job market, a student anticipating graduation in 1993, or if you are an employer with positions to be filled, and wish to take advantage of our efforts on your behalf, contact: Jacquelyn Roberts, AAAS Employment Exchange, 1333 H Street, NW, Washington, DC 20005. Phone: 202-326-6737. Fax: 202-842-1065.

Illustration by Angela Roberts for AAAS
ECOLOGIST. The Department of Biology at New Mexico State University (NMSU) anticipates appointing a tenure-track ASSISTANT PROFESSOR for Fall 1993. Applicants should apply modern methods (quantitative, experimental, and/or molecular) to research problems in animal ecology. The successful candidate will join an interactive group of ecologists and is expected to develop a vigorous research program and to teach at the undergraduate and graduate levels. The department offers programs in zoology, botany, and the M.S. and Ph.D. in biology. Submit curriculum vitae, concise statement of teaching and research interests, and names of at least three references to: Dr. William J. Boecklen, Search Committee, Department of Biology, Box 330001, NMSU, Las Cruces, NM 88003. Closing date for applications is November 30, 1992. NMSU is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY, tenure-track. Applicant must have doctorate in zoology or related field. Responsibilities include teaching anatomy, physiology, and basic biology. It would be helpful if the applicant could teach a basic parasitology course. Send curriculum vitae and three letters of reference to: Personnel Office, Southwestern Oklahoma State University, Weatherford, OK 73096. Review begins February 1, 1993 and continues until position filled. Affirmative Action/Equal Opportunity Position. Women and minorities encouraged to apply.

EUKAROTIC CELL BIOLOGIST. The Department of Biology at New Mexico State University (NMSU) anticipates appointing a tenure-track ASSISTANT PROFESSOR for Fall 1993. Applicants should have postdoctoral experience and should apply modern molecular methods to research problems in animal cell biology. The successful candidate will develop a vigorous research program and will teach at the undergraduate and graduate levels. He or she may participate in the Molecular Biology M.S./Ph.D. Program and the Minorities Access to Research Careers and Minority Biomedical Research Support programs. Women and minority candidates are strongly encouraged. The department offers masters degrees in biology and microbiology and the M.S. and Ph.D. in biology. Submit curriculum vitae, statement of research and teaching interests, and the names, addresses, and telephone numbers of at least three references to: Dr. Cell A. Herman, Search Committee, Department of Biology, Box 30001, NMSU, Las Cruces, NM 88003. Closing date is November 30, 1992. NMSU is an Affirmative Action/Equal Employment Opportunity Employer.

EXERCISE SCIENTIST (Biochemist/Endocrinologist Preferred) Teaching/research position at ASSISTANT PROFESSOR level, but will consider exceptional candidates at any rank. Ph.D. in Nutrition, Exercise Science, or a closely related field desired. Candidate expected to develop independent research program. Starting date: August 1993. Submit curriculum vitae, research plan, and three letters of recommendation to: Carl V. Giudici, Ph.D., Exercise Science Department, N420 Field House, The University of Iowa, Iowa City, IA 52242. Screening begins 18 January 1993. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities are especially encouraged to apply.

State University of New York (SUNY) at Binghamton—ASSISTANT PROFESSOR (Tenure-track). We are seeking individuals who are studying significant problems related to IMMUNOLOGY or PLANT BIOLOGY through the application of molecular biology techniques. The successful applicant, pending State funding, is expected to develop a synergistic externally funded research program, and to teach undergraduate and graduate students in areas of expertise. Submit curriculum vitae, statement of research and teaching interests, and three letters of recommendation sent to: Dr. D. D. Michael, Department of Biological Sciences, State University of New York, Binghamton, NY 13902-6000 by December 1, 1992. Binghamton University is one of the four doctoral-granting campuses of the SUNY system and is dedicated to excellence in teaching and research. Strongly committed to Affirmative Action. Recruitment conducted without regard to race, color, sex, religion, age, disability, marital status, sexual orientation or national origin.
THE ORGANIZATION

NRC – Canada’s principal science and engineering organization – helps its industry partners become stronger global competitors. Currently, NRC’s Biotechnology Research Institute is looking for an energetic executive who will provide the leadership required to further enhance its record of excellence and achievement.

The Institute’s mission is to promote, assist, and perform R&D in biochemical and molecular engineering closely linked to the market objectives of industry.

Director General
(Montreal, Quebec)

RESEARCH AREAS

The main areas of research include:
- Fermentation, biochemical and process engineering
- Genetic Engineering
- Enzyme technology and protein engineering

A major pilot plant facility allows scale-up experimentation and economic evaluation. The R&D focuses on the pharmaceutical and environmental sectors.

THE POSITION

Reporting to the sector Vice-President, the Director General provides leadership and direction with respect to the Institute’s mandated activities. He or she is responsible for managing, planning, organizing, implementing, evaluating and controlling the Institute’s research and development programs and advises senior management on long-term research goals. The Director General is also responsible for establishing close ties with industry and universities and undertaking research projects on a cooperative basis and fostering the development of industrial biotechnology in Canada.

THE CANDIDATE

The successful candidate will have an established reputation for outstanding R&D leadership. Applicants must have a Ph.D. and several years of research experience in a biotechnology-related discipline in industry, university or government. The candidate will also have demonstrated ability to manage major research organizations. Fluency in both French and English is essential. A security screening will be required.

THE INSTITUTE

The Biotechnology Research Institute is located in downtown Montreal in a $60 million, 18,000m² complex. It employs 235 scientists, engineers and administrative personnel and hosts 150 guest researchers from industries, universities and other research organizations. Its annual budget is $21 million.

SALARY RANGE: From $84,254 to $104,442 per annum.

Please send a detailed résumé in confidence by November 30, 1992 to: Manager, Recruitment and Staffing, National Research Council of Canada, Ottawa, Ontario, K1A OR6. Please quote the reference number: RB-92-40.SCI
ASSISTANT PROFESSOR IN GENETICS
UNIVERSITY OF UTAH

The Biology Department at the University of Utah seeks applicants for a tenure-track position in the area of genetics. The position is normally at the ASSISTANT PROFESSOR level, more senior applicants will also be considered. Interested individuals should submit curriculum vitae, three letters of reference, and a statement of research interests. Review of applications will begin on December 15, 1992.

GENETICS SEARCH COMMITTEE
201 Biology Building
University of Utah
Salt Lake City, UT 84112

The University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities, and provides reasonable accommodation to the known disabilities of applicants and employees.

ASSISTANT PROFESSOR IN NEUROBIOLOGY

The Biology Department of Wesleyan University invites applications for a tenure-track ASSISTANT PROFESSORSHIP in the area of neurobiology. Applicants should have strong backgrounds in biology and neuroscience, at least two years of postdoctoral experience, and be prepared to develop an independent research program. They should participate in the departmental Ph.D. program and in an interdepartmental Neuroscience and Behavior Program. The classroom workload is one undergraduate or graduate course per semester, including undergraduate teaching in general or comparative physiology, and a curriculum vitae, statement of research plans and three letters of recommendation. Send curriculum vitae, statement of research plans and three letters of recommendation to: Search Committee, Department of Biology, Wesleyan University, Middletown, CT 06459-0170 by December 1, 1993. Wesleyan University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, CELL/MOLECULAR BIOLOGY

Tenure-track Assistant Professor in the area of cell and molecular biology. Earliest starting date: Spring 1993. Specific interests include molecular and developmental biology, particularly in eukaryotic systems. Send curriculum vitae, statement of research plans and three letters of reference to: Dr. Robert Robert, Search Chair, Department of Biology, Illinois Institute of Technology, 3333 S. Ashland, Chicago, IL 60616. IIT is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR:
DEPARTMENT OF MOLECULAR BIOPHYSICS AND BIOCHEMISTRY
YALE UNIVERSITY

The Department of Molecular Biophysics and Biochemistry seeks candidates for a position at the level of Assistant Professor in the general areas of biophysics, biochemistry, and molecular biology. Individuals whose interests bridge two or more of these areas are especially encouraged to apply. The person appointed would be expected to develop an independent research program and to participate in departmental teaching.

Candidates should have curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent no later than January 22, 1992 to: Peter Berger, Search Chair, Department of Molecular Biophysics and Biochemistry 0734, Yale University, P.O. Box 2666, 266 Whitney Avenue, New Haven, CT 06511.

Yale University is an Equal Opportunity/Affirmative Action Employer and invites applications from all qualified individuals.

ASSISTANT PROFESSOR
MOLECULAR BIOLOGISTS

The Department of Physiology at the University of Kentucky College of Medicine invites applications for two tenure-track positions at the Assistant Professor level. We seek candidates who will establish strong research programs using molecular biological approaches to the molecular basis of cellular and organismal physiology and participate in teaching. Applicants must have a Ph.D. or M.D. and at least two years of postdoctoral experience. Interactions with other faculty within the College of Medicine, School of Biological Sciences, College of Agriculture, the Markey Cancer Center, the Sanders Brown Center on Aging, and Tobacco and Health Research Institute provide a stimulating research environment and ample opportunity to collaborate with other researchers.

Applications should send curriculum vitae, a detailed statement of past experience, future research plans and have letters from three references sent to: Dr. Phyllis M. Wise, Chair, Department of Physiology, College of Medicine, University of Kentucky, Lexington, KY 40536-0084. Review of applications will begin on January 15, 1993.

Women and minority candidates are encouraged to apply. The University of Kentucky is an Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST

The Biology Department of Wesleyan University invites applications for a tenure-track ASSISTANT PROFESSORSHIP in the area of neurobiology. Applicants should have strong backgrounds in biology and neuroscience, at least two years of postdoctoral experience, and be prepared to develop an independent research program. They should participate in the departmental Ph.D. program and in an interdepartmental Neuroscience and Behavior Program. The classroom workload is one undergraduate or graduate course per semester, including undergraduate teaching in general or comparative physiology, and a curriculum vitae, statement of research plans and three letters of recommendation. Send curriculum vitae, statement of research plans and three letters of recommendation to: Search Committee, Department of Biology, Wesleyan University, Middletown, CT 06459-0170 by December 1, 1993. Wesleyan University is an Equal Opportunity/Affirmative Action Employer and strongly encourages applications from women and minorities.

RESEARCH/EDUCATION ASSISTANT PROFESSOR
UNIVERSITY OF DELAWARE

The Department of Animal Science and Agricultural Biotechnology invites applications for a tenure-track faculty position in molecular immunology. The position is approximately 70% research and 30% teaching and advising. Applicants must have a Ph.D. with postdoctoral experience in cell and molecular immunology. The successful candidate must be expected to develop an independent research program and to participate in departmental teaching.

Candidates should send curriculum vitae with a summary of present and future research interests, and request that three letters of recommendation be sent no later than January 22, 1992 to: Peter A. Ackers, Department of Animal Science and Agricultural Biotechnology, 100 Townsend Hall, University of Delaware, Newark, DE 19717-1381, USA. Applications will begin to be reviewed on or before January 15, 1993. Delaware is an Equal Opportunity/Affirmative Action Employer.

ENVIROMENTAL TOXICOLOGIST

The Department of Biological Sciences, Wichita State University (WSU), invites applications for a tenure-track position with the rank of ASSISTANT or ASSOCIATE PROFESSOR. The individual is expected to establish an active research program and contribute to undergraduate and graduate teaching. Areas of interest may include aquatic toxicology, environmental physiology, and ecological toxicology. The individual will have an active role in the interdisciplinary environmental science degree program.

Applications are invited from candidates with a Ph.D. or M.S. in environmental science, environmental biology, or related fields. The individual must be able to teach a variety of subject matter courses at the undergraduate level and to direct environmental science laboratory courses. The individual must also be able to mentor and train undergraduate students.

Applications should include a letter of interest, a brief description of research interests and accomplishments, a full curriculum vitae, and three letters of recommendation. Send applications to: Dr. Joseph J. Kalkbrenner, Chair, Department of Biological Sciences, Wichita State University, Wichita, KS 67208. Review of applications will begin on January 15, 1993. Positions will remain open until filled.

Applicants must possess significant postdoctoral training, a record of productive research, and the ability to attract external funding. The successful candidate will be expected to establish research programs in a multidisciplinary environment with an emphasis on teaching. The candidate will be expected to develop an active research program and to participate in undergraduate and graduate teaching.

Applications are invited from candidates with a Ph.D. in environmental science, environmental biology, or related fields. The individual must be able to teach a variety of subject matter courses at the undergraduate level and to direct environmental science laboratory courses. The individual must also be able to mentor and train undergraduate students.

Applications should include a letter of interest, a brief description of research interests and accomplishments, a full curriculum vitae, and three letters of recommendation. Send applications to: Dr. Joseph J. Kalkbrenner, Chair, Department of Biological Sciences, Wichita State University, Wichita, KS 67208. Review of applications will begin on January 15, 1993. Positions will remain open until filled.

Applications are invited from candidates with a Ph.D. in environmental science, environmental biology, or related fields. The individual must be able to teach a variety of subject matter courses at the undergraduate level and to direct environmental science laboratory courses. The individual must also be able to mentor and train undergraduate students.

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Applications should include a letter of interest, a brief description of research interests and accomplishments, a full curriculum vitae, and three letters of recommendation. Send applications to: Dr. Joseph J. Kalkbrenner, Chair, Department of Biological Sciences, Wichita State University, Wichita, KS 67208. Review of applications will begin on January 15, 1993. Positions will remain open until filled.
DEPARTMENT OF MICROBIOLOGY AND
THE COMPREHENSIVE CANCER CENTER

Applications are invited at the Assistant, Associate or Professor levels for a vacant faculty position in Molecular Immunology jointly supported by the Department of Microbiology and the Ohio State University Comprehensive Cancer Center. Research areas of special interest include molecular biology of macrophage activation, regulation of cytokine gene expression, signal transduction mechanisms and processing/presentation of antigens. The successful applicant is expected to develop and maintain an internationally recognized, molecular-oriented research program in cancer immunology and to participate in graduate and undergraduate teaching. An attractive package for set-up is available. This position is one of several new cancer-related positions that will be filled to expand the research program of the O.S.U. Comprehensive Cancer Center coincident with the establishment of the Arthur G. James Cancer Hospital and Research Institute.

Applicants should submit a curriculum vitae, statement of current research interests and future plans and the names of three references to Bruce S. Zwilling; Chair, Immunology Search Committee, Department of Microbiology, The Ohio State University, Columbus, OH 43210; Tel. 614-292-3310 or FAX 614-292-1538. Review of applications will begin immediately and continue until the position is filled. Women and minority candidates are very strongly encouraged to apply. The University is an Affirmative Action/Equal Opportunity Employer.

THE JAMES... THE NEXT GENERATION OF HOPE
Designated by the National Cancer Institute as a Comprehensive Cancer Center

IMMUNOLOGIST
Department of Pathology

The Department of Pathology at the University of Chicago seeks to recruit an outstanding experimental immunologist. We are committed to developing a strong program in molecular immunology. We are seeking an outstanding individual to join seven full-time basic immunologists whose expertise encompasses both cellular and molecular immunology. Existing related programs in the Department of Pathology include: molecular and cell biological aspects of antigen presentation; tumor immunology; T lymphocyte activation and regulation; and transplantation. The level of appointment, which is on the tenure track, will depend on the experience and qualifications of the applicant who is expected to demonstrate both significant accomplishments and outstanding promise. The start date for the proposed appointment will not be earlier than July 1, 1993. Please send current curriculum vitae, bibliography and a brief statement indicating research interests and the names of three referees to:

Jeffrey Bluestone, Ph.D.
Professor, Department of Pathology
MC 1089
THE UNIVERSITY OF CHICAGO
5841 S. Maryland Avenue
Chicago, IL 60637

THE UNIVERSITY OF CHICAGO

National Heart, Lung, and Blood Institute
National Institutes of Health

SCIENCE ADMINISTRATOR/BIOLOGIST
CHEMIST/MEDICAL OFFICER

The Thrombosis and Hemostasis Branch in the Division of Blood Diseases and Resource, is recruiting two Health Science Administrators, Medical Officers, Chemists or Biologists. The incumbents of these positions will be responsible for management of research grants and generation of reports and science initiatives on thrombosis, blood coagulation, platelets, endothelial cells, thrombolysis, etc. A Ph.D. in biological sciences/chemistry or M.D. (equivalent experience may be substituted for education) is essential. Excellent interpersonal communication skills in interacting with colleagues and the scientific community is highly desirable; knowledge of the thrombosis/hemostasis area, the NIH grant process as a PI or member of a review group, programs and national policies in health research, and data processing is preferred. Appointments may be made at GS-12 to GS-14 grades ($38,861 - $80,087). Candidates may be eligible for a physician's comparability allowance. Also, these positions are open to qualified members of the Commissioned Corps, USPHS. For additional info, call Dr. Pan Ganguly, Chief, Thrombosis and Hemostasis Branch, (301)402-2237. Candidates should submit a SF-171 and responses to selection criteria to Dr. Ganguly, Federal Building, Room 5C14, 7550 Wisconsin Avenue, Bethesda, Maryland 20892. Review of applications will begin immediately but positions will remain open until filled.

U.S. Citizenship Required
NIH is an Equal Opportunity Employer
**POSITIONS OPEN**

**ASSISTANT PROFESSOR, MARINE BIOLOGY:** The Department at Occidental College invites applications for a tenure-track position beginning September 1993. The successful candidate will be expected to participate in introductory biology, teach comparative vertebrate and cellular biology, develop research in a speciality, and develop an active research program involving undergraduates and the marine environment. Excellent teaching and research facilities, including the 85' research vessel the Varuna, will be provided. Send curriculum vitae, statement of teaching and research interests, three letters of recommendation to: Dr. Edward L. Orr, Department of Anatomy and Cell Biology, 4150 College Boulevard, Fort Worth, TX 76107-2699. Applications must be received by February 1, 1993. FCOM is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**ASSOCIATE PROFESSOR, NEUROBIOLOGY:** Stetson University. Tenure-track position in neurobiology beginning September 1993. Responsibilities include courses and labs in neurobiology and general biology, and possibly behavior, developmental biology, cell biology, and endocrinology. Ph.D. and commitment to teaching in a liberal arts context required. Application letter, curriculum vitae, statement of teaching philosophy, research plans, copies of all publications, and letters of reference to: Dr. Daniel D. Bittman, Department of Biology, Stetson University, DeLand, FL 32720. Deadline: November 16. Preliminary interviews to be held at the Society for Neuroscience Annual Meeting, Anaheim. Stetson University is an Equal Opportunity Employer. Women and minorities are particularly encouraged to apply.

**POSITIONS OPEN**

**ASSISTANT/ASSOCIATE PROFESSOR, BIOCHEMISTRY AND MOLECULAR BIOLOGY:** University of Massachusetts at Amherst

We seek an energetic colleague who will maintain a strong independent research program focused in the area of molecular genetics. Research interests might include molecular genetic techniques are particularly encouraged to apply. Our department has well funded groups in the areas of molecular biology, peptide and protein synthesis, protein-nucleic acid interactions, and protein engineering. Organisms and systems include prokaryotes, yeast, plants and mammalian cell lines. We have a tradition of collaboration among colleagues and the interdisciplinary Graduate Program in Molecular and Cellular Biology.

The position is to be filled September 1, 1993. Salary will be commensurate with experience. Send a resume, a brief statement about present and planned research, and names of three references to: Department of Chemistry, University of Massachusetts, Amherst, MA 01003. Applications will be accepted until December 21, 1992, or until a suitable candidate is identified. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR, NEUROBIOLOGY:**

A position exists at the Assistant Professor level in the Department of Physiology at the University of Texas Health Science Center at San Antonio. The individual must project a strong interest in the central control of the cardiovascular system. Candidates must have a Ph.D. or equivalent degree and a research program related to the neurobiology of the cardiovascular system using modern molecular and electrophysiologic techniques. Successful candidates will be supplied with the necessary funds for an independent research program. Please send detailed curriculum vitae and three letters of recommendation to: Dr. W. S. Bishop, Department of Physiology, The University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284. The University of Texas Health Science Center at San Antonio is an Equal Opportunity/Affirmative Action Employer.

The Department of Medicine, Baylor College of Medicine invites applications for two positions at the rank of INSTRUCTOR or ASSOCIATE PROFESSOR. These appointments will facilitate innovative research and opportunities for patient care and teaching of students, residents, and fellows. Applicants should have training in the techniques of molecular biology and be interested in conducting basic research in diabetes and participating in a multi-departmental diabetes research center. A flexible, competitive compensation package will be offered commensurate with background and accomplishments of the successful applicants. For additional information please contact: Glenn R. Cunningham, M.D., Acting Chief, Division of Endocrinology and Metabolism, One Baylor Plaza, Room 537B, Houston, TX 77030.

**VERTEBRATE PHYSIOLOGIST**

The Department of Biology of the University of Massachusetts at Amherst invites applications for a tenure-track ASSISTANT OR ASSOCIATE PROFESSOR. The successful applicant is expected to develop a vigorous research program using modern approaches to basic physiological questions. Postdoctoral experience required. Teaching responsibilities include upper level animal physiology and graduate courses in area of specialty. Competitive salary commensurate with experience and qualifications. Send curriculum vitae, statement of current and future research interests, and references, and arrange to have three letters of recommendation sent to: Dr. Daniel D. Bittman, Department of Biology, University of Massachusetts, Amherst, MA 01003. The University of Massachusetts is an Affirmative Action/Equal Opportunity Employer.
THE UNIVERSITY OF MASSACHUSETTS AT AMHERST
ANNOUNCES THE FOLLOWING FACULTY OPENINGS

DIRECTOR OF THE INTERDEPARTMENTAL GRADUATE PROGRAM IN MOLECULAR AND CELLULAR BIOLOGY

We seek a distinguished scientist who will maintain a strong research program while providing intellectual and administrative leadership to a program of 60 faculty members and an equal number of Ph.D. students. Applications accepted until December 15, 1992 or until position is filled. Please send curriculum vitae and names of 3 references.

BIOCHEMISTRY AND MOLECULAR BIOLOGY DEPARTMENT

Assistant/Associate Professor, tenure-track. Preference will be given to investigators studying signal transduction using a molecular genetic approach. Applications accepted until December 21, 1992 or until the position is filled. Please send curriculum vitae, personal statement and 3 letters of recommendation.

BIOLOGY DEPARTMENT

Assistant/Associate Professor, tenure-track. Vertebrate physiologist using modern approaches to basic physiological questions. Teaching responsibilities will include upper level animal physiology and graduate courses in area of speciality. Submit application by December 15, 1992, including curriculum vitae, reprints and 3 letters of reference.

Assistant Professor, non-tenure track. Neuroendocrinologist with interest in circadian rhythms and/or seasonal influences on reproduction. Teaching responsibility is one course per year in experimental vertebrate endocrinology. This position is funded for a five-year period. Submit application by December 15, 1992, including curriculum vitae, reprints and 3 letters of reference.

CHEMISTRY DEPARTMENT

Assistant Professor, tenure-track. Organic chemistry. Preference will be given to applicants in areas of synthetic or bioorganic chemistry. Deadline November 15, 1992.

Send replies to Search Coordinator, Room 913L LGRT, University of Massachusetts, Amherst, MA 01003. An Affirmative Action/Equal Opportunity Employer.
MUCOSAL IMMUNOLOGIST
AND MOL. IMMUNOLOGIST

The Gastrointestinal Unit and the Center for the Study of Inflammatory Bowel Disease at the Massachusetts General Hospital invite applications for a faculty position at the INSTRUCTOR, ASSISTANT PROFESSOR or ASSOCIATE PROFESSOR level. We are seeking an individual with a major research interest in the following areas: cytokines and stem-cell growth factors of the gastrointestinal tract and mucosal immunity with particular emphasis on basic molecular or cellular biology. In this position, the appointee will participate in his/her own independent research and promote collaborative research with existing faculty. Candidates should hold a Ph.D. and/or M.D. with postdoctoral training and relevant experience are required. Women and minorities are encouraged to apply. Send curriculum vitae including publications, summary of research interests and three names of recommendation or inquiries to: Daniel K. Podolsky, M.D., Director, Center for the Study of Inflammatory Bowel Disease, Massachusetts General Hospital, Jackson 7- Fruit Street, Boston, MA 02114.

VASCULAR NEUROBIOLOGIST

The Bowman Gray School of Medicine Wake Forest University

The Department of Neurosurgery invites applications for a tenure-track position to lead departmental research efforts and train our outstanding residents and fellows. Appointees can be at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level. The successful candidate should have a nationally funded research program, with an emphasis on areas of normal-vascular, vascular responsiveness, and/or pathophysiology of cerebral vasculature. Investigative approaches can be at the systems, cellular, or molecular levels. This position offers outstanding opportunities for collaboration with both basic and clinical scientists, and cross appointment in another department of our expanding neuroscience program. A Ph.D. or M.D. and appropriate candidate salary and benefits are highly competitive, and substantial departmental resources will be provided. Send curriculum vitae and names of three letters of reference to: Dr. David L. Kelly, Chair, Department of Neurosurgery, The Bowman Gray School of Medicine, Medical Center Boulevard, Winston-Salem, NC 27157.

BIOCHEMIST

The University of Nevada, Las Vegas (UNLV) has a tenure-track position at the ASSISTANT (preferred) or ASSOCIATE level. Ph.D. in Biochemistry (or related field) is required. One of the programs offered is the M.S. in Biochemistry. This is a 9-month position with an expectation of teaching 12 contact hours per week. Salary is competitive and is commensurate with qualifications and experience. The University of Nevada, Las Vegas, is a premier regional University located in a rapidly growing metropolitan area. The University currently has 19,000 students and 1,400 faculty. The successful candidate will be expected to develop and maintain an active, externally funded research program while teaching undergraduate courses in Biochemistry and related areas. Applicants should have a strong commitment to teaching and the dedication to contribute to the University's excellence in research and teaching. The University, located just 25 miles from the beautiful city of Las Vegas, offers a unique and diverse faculty and student body. It is one of the top 20 companies in the U.S. to work for. Information about the University can be found at www.unlv.nevada.edu.

FACULTY POSITIONS

IN GRADUATE INSTITUTE
OF MICROBIOLOGY & IMMUNOLOGY

National Yang-Ming Medical College

This institute plans to fill two faculty positions in the field of MUCOSAL IMMUNOLOGY. Candidates with Ph.D. or M.D. degrees in IMMUNOLOGY will be considered. The candidates should have a strong background in mucosal immunity with particular emphasis on basic molecular or cellular biology. In this position, the appointee will participate in his/her own independent research and promote collaborative research with existing faculty. Candidates should hold a Ph.D. and/or M.D. with postdoctoral training and relevant experience are required. Women and minorities are encouraged to apply. Send curriculum vitae, bibliography, statement of research interests and plan, and three letters of reference by December 15, 1992 to: Dr. Ling-Pai Ting, Director, Graduate Institute of Microbiology & Immunology, National Yang-Ming Medical College, Shih-Pai, Taipei, Taiwan, ROC; telephone: 886-2-82126165, FAX: 886-2-8212880.

POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSOR
IN NEUROPHARMACOLOGY/NEUROBIOLOGY

The Department of Pharmacology at the University of Tennessee, Memphis invites applications for a tenure-track position at the Assistant or Associate Professor level, available July 1, 1993. Candidates should possess Ph.D. or M.D. degrees with postdoctoral training in biochemical and molecular approaches to problems in neuropharmacology and/or neurobiology. Faculty are expected to develop research programs and to participate in the teaching activities of the department, especially in the area of autonomic and neuropharmacology. The Assistant Professor should have an established funded research program. The Department of Pharmacology has active research programs in lipid metabolism, molecular biology, neuroendocrinology, and autonomic, cancer, cardiovascular, endocrine and neuropharmacology. Applications from minority candidates and women are strongly encouraged. Please submit curriculum vitae, a description of research interests and future plans and the names of three references to: Dr. William R. Crowley, Chairman, Neuropharmacology Search Committee, Department of Pharmacology, The University of Tennessee, Memphis, College of Medicine, 874 Union Avenue, Memphis, TN 38163. The search will continue until the position is filled.

ENVIRONMENTAL BIOLOGY

Harvey Mudd College (HMC) seeks candidates for a tenure-track position, preferably at the rank of entry-level ASSISTANT PROFESSOR, to join a new program in biology. Applicants must have expertise in some area of the earth system sciences or applied field ecology. Knowledge of environmental issues, such as environmental change, conservation biology or ecosystems energetics is highly encouraged. Appropriate approaches to investigation of these systems are appropriate for the position. The successful candidate is expected to have demonstrated excellence in teaching undergraduate courses. The HMC is a small private college of science and engineering (member of the Claremont Colleges) with a select undergraduate student body. Send curriculum vitae, research statement, and three letters of reference to: Dr. Catherine McFadden, Department of Biology, Harvey Mudd College, Claremont, CA 91711. To assure consideration, all materials should be received by December 15, 1992.

ENDOWED CHAIR DIABETES RESEARCH

The Department of Medicine, Baylor College of Medicine invites applications for the Rutherford Chair Professor of Diabetes Research. This endowed chair must have an established nationally recognized program in diabetes-related research. Applications of M.D. investigators who have demonstrated experience in diabetes research and currently are associate professors or professors are sought for this prestigious position. A letter of interest, curriculum vitae, and the names of at least three references should be submitted to the Department of Medicine, One Baylor Plaza, Room 537E, Houston, TX 77030.

ENDOWED CHAIR DIABETES RESEARCH

The Department of Medicine, Baylor College of Medicine invites applications for the Rutherford Chair Professor of Diabetes Research. This endowed chair must have an established nationally recognized program in diabetes-related research. Applications of M.D. investigators who have demonstrated experience in diabetes research and currently are associate professors or professors are sought for this prestigious position. A letter of interest, curriculum vitae, and the names of at least three references should be submitted to the Department of Medicine, One Baylor Plaza, Room 537E, Houston, TX 77030.
Incyte Pharmaceuticals is a privately held biotechnology company focused on the research and development of protein biotherapeutics for inflammatory and degenerative diseases. Incyte's discovery programs, based on large-scale sequencing of cDNAs and proteins from inflammatory cells, have identified several new products which are now in preclinical development. Incyte's lead product, BPI for endotoxic shock, is being co-developed with Genentech, Inc. Incyte has immediate openings for skilled scientists (B.S., M.S., and Ph.D.) in the following departments:

**Immunobiology**
- Candidates with experience in macrophage and neutrophil biology or immunoassay and bioassay development

**Molecular Immunology**
- Candidates with experience in autoimmunity, T-cell biology and cell adhesion to head an expanding project on immunosuppression
- Candidates with strong basic molecular biology skills in cDNA cloning and expression

**Protein Discovery**
- Candidates with strong protein chemistry background: protein isolation and microcharacterization, microsequencing, amino acid analysis, and capillary electrophoresis

**Protein Engineering**
- Candidates with experience in recombinant protein purification and characterization. Additional background in enzymology and protease biology helpful

**Process Development**
- Candidates with 3–5 years experience in developing large-scale protein purification processes for both mammalian and bacterial derived proteins. GMP experience helpful
- Candidates with strong background in mammalian cell culture. Experience in DNA transfections, cell cloning, large scale cell culture and media development helpful

**Bioinformatics**
- Candidates with a strong background in computer and data processing to head up a major program on bio-sequence information processing

**Product Development**
- Director/Vice President level candidates to head preclinical development of two new proprietary biotherapeutic molecules moving toward clinical trials

Incyte Pharmaceutical's R&D facility has a premier location in the foothills of Palo Alto, California, situated in the Stanford Research Park close to the Stanford Campus as well as bicycling and running trails. Incyte offers competitive salaries, outstanding benefits, significant equity participation and an opportunity for professional growth. Please fax or mail your resume to our Human Resources Department at the above address.
DIRECTOR OF PRODUCT SAFETY TESTING

One of America's leading life science laboratories is seeking a Ph.D. with a minimum of five years of industry experience in dermatology and immunology. Responsibilities include the technical direction of pre-clinical and clinical safety testing and research programs for pharmaceutical, personal care and industrial products. Additional duties include staff training, method and protocol development, data interpretation, risk assessment, and compliance with regulations.

Reply to: JAS/S • The Hilltop Co., P.O. 429501 • Cincinnati, OH 45242. Equal Opportunity Employer.

DIRECTOR FOR INSTITUTE OF ECOLOGY

The University of Georgia is seeking a Director for its internationally recognized program in ecology. This program has broad responsibilities consisting of an education component within the College of Arts & Sciences and a Research Component within the Institute of Ecology. Discussions are currently underway to combine the educational and research components into one coordinated program which would provide an academic home for ecologists on campus. The director would be responsible for the development of major research facilities, overseeing the faculty of both groups, and representing them within the university and in a number of national groups.

The position requires an individual with strong leadership abilities, excellent publication record in the environmental sciences, and managerial experience. Major duties include: (1) the development of experimental interdisciplinary programs and grants, representing the research interest of the faculty both within and outside the university, managing the educational aspects of the program, and conducting an active personal research program. The academic rank and salary associated with the position are negotiable. Applicants should submit curriculum vitae, names and addresses of three references, and a statement of their vision of Ecology during the next two decades by January 8, 1993. Send materials to: Dr. Michael Smith, Chairman of Search Committee, Institute of Ecology, The University of Georgia, Athens, GA 30602. An Equal Employment Opportunity/Affirmative Action Institution.

PROFESSOR AND CHAIR. The Department of Microbiology, Immunology and Biomedical Sciences at the University of Connecticut Health Center in Farmington invites applications and nominations for a Chairperson. Applicants must have a Ph.D., M.D., D.O. or equivalent degree, with active research record, including outstanding record of research funding, and teaching record in the area of Immunology or Virology. The Chairperson will be responsible for providing academic and administrative leadership to promote the research and teaching excellence of a vital young faculty. The UConn Health Center is a state-supported medical school housed in new, well-equipped facilities, is affiliated with the University of Connecticut Health Center in Hartford and the University of Connecticut Health Center in New Britain.

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

SCIENCE, TECHNOLOGY AND PUBLIC POLICY

The University of Connecticut Health Center invites applications for a tenure-track position in science, technology, and public policy. The position requires a Ph.D. or equivalent degree and evidence of active research and teaching in the fields of political science, public policy, or environmental science. Duties include teaching courses in public policy, conducting research, and serving on committees. Application packages should include a letter of interest, curriculum vitae, and names and addresses of three referees. Review of applications will begin February 15, 1993. Send applications to: Dr. W. B. Zuber, Department of Political Science, University of Connecticut, Farmington, CT 06030. The University of Connecticut is an Affirmative Action/Equal Opportunity Employer.

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PHILOSOPHY AND RELIGION

The Philosophy and Religion Department at Hope College invites applications for a full-time, nine-month position beginning August 1993. The area of specialization is open, but preference will be given to applicants who have demonstrated competence in both philosophy and religious studies. Duties include teaching undergraduate courses in philosophy and religious studies, participating in departmental governance, advising students, and sometimes serving as a residence hall director. Applicants should have a Ph.D. in philosophy or religious studies, or a related field. The position is open to candidates of any race, sex, age, color, religion, national origin, sexual orientation, or any other grounds protected by law. Reply to: Search Committee, Department of Philosophy and Religion, Hope College, Holland, MI 49423. Hope College, a coeducational liberal arts college affiliated with the Reformed Church in America, is an equal opportunity/affirmative action employer.

DIRECTOR OF AGRICULTURAL RESEARCH

The University of Missouri invites applications for the position of Director of Agricultural Research. The Director will provide leadership and manage a $40 million research and extension program. Applicants must have a Ph.D. in the area of agricultural research, along with strong administrative skills and a commitment to improving the quality of life for all Missourians. Review of applications will begin February 1, 1993. Address inquiries and applications to: Search Committee, Department of Agriculture, The University of Missouri, Columbia, MO 65211. The University of Missouri is an equal opportunity/affirmative action employer.

MUSICAL EMPLOYER

The University of Michigan invites applications for a full-time position as Director of Music. The Director of Music will be responsible for the administration of all aspects of the music program, including faculty and student recruitment, curricular development, and coordination of music performance activities. The position requires a Ph.D. (minimum) in musicology or a related field. Review of applications will begin February 1, 1993. Address inquiries and applications to: Search Committee, Department of Music, The University of Michigan, Ann Arbor, MI 48109. The University of Michigan is an equal opportunity/affirmative action employer.

The University of Michigan is an equal opportunity/affirmative action employer.

The Medical College of Wisconsin, Department of Neurosurgery, Tenure-track FACULTY POSITION in Biomechanics. This is at the Ph.D. level in the area of biomechanics. Research experience in head injury, finite element analysis and mechanics is desired. Salary is commensurate with education, work experience and publication record. Position involves collaboration with basic science and clinical engineers in impact biomechanics studies and impact sled research. The Department of Neurosurgery is a leading biomechanics center with agencies and private organizations and dedicated to determining the injury biomechanics of the central nervous and musculoskeletal systems in the context of victim and vehicular safety. The Department has 14 faculty with M.D. and/or Ph.D. degrees involved in research. Please send curriculum vitae and names of three references, including address and telephone numbers and sample publications to: Dr. Anthony Sances, Jr., Professor and Chair, Department of Biomedical Engineering and Neurosurgery, Medical College of Wisconsin, 9200 West Wisconsin Avenue, Milwaukee, WI 53226. The Medical College of Wisconsin is an equal opportunity/affirmative action employer.
Imagine The Possibilities

At Berlex, we've been building an impressive team with some of the finest talent in the pharmaceutical industry. To meet the challenges before us, we're seeking several key members to help advance our scientific mission and arrive at new possibilities in oncology and cardiovascular research. If you've been looking for the chance to join forces with an internationally recognized pharmaceutical team, imagine building your career at Berlex.

**Cardiovascular Research Senior Scientists**

Working under the direction of one of the world's most accomplished scientists in cardiovascular research, the following Senior Scientist positions will investigate novel concepts related to the molecular basis of vascular diseases. Candidates responding to these opportunities must possess 10+ years' professional experience and a proven record of independent and innovative research.

**Physiology/Pathophysiology**

You'll be responsible for developing pathological experimental models and testing vascular/endothelial functions and structures in vivo. This will require expertise in animal models of cardiovascular diseases. Knowledge of endocrinology, steroid pharmacology and/or molecular biology would be a plus.

**In Vitro Vascular Pharmacology**

Your special expertise in vascular/endothelial pharmacology will be crucial to developing in vitro (isolated tissue, organs) models and assays to test endothelial function/dysfunction in both large and micro vessels. You'll also need a strong understanding of signal transduction mechanisms, endothelium derived factors and nitric oxide synthesis.

**Endothelial Cell Biology**

You'll develop techniques and models to study endothelial cells in culture. This will require a thorough understanding in the molecular basis of endothelial cell activation/regeneration during vascular injury and inflammatory/immune reactions. A working knowledge of cell characterization, cell-to-cell interaction, and/or steroid pharmacology would be highly beneficial.

**Vascular Molecular Biology**

You'll use your experience in molecular biology and genetic engineering techniques to study vascular diseases. Specifically, this will involve investigating genetic modifications of endothelial cell functions. Prior experience with steroid hormone receptors would be a plus.

**Discovery Research Medicinal Chemistry**

You'll help spearhead our innovative drug design and synthesis programs aimed at key pharmaceutical targets. Candidate positions responding to our Scientist positions will be expected to contribute to multidisciplinary research projects. A fundamental understanding of molecular modeling, enzymology, receptor biochemistry and pharmacology would be considered definite assets.

**Scientist—Drug Design & Synthesis**

You'll lead a laboratory involved in compound design and synthesis. This will demand significant expertise in preparative and mechanistic organic chemistry. A PhD in synthetic chemistry with 6–8 years' related experience in medicinal chemistry is also required. Familiarity with state of the art asymmetric synthesis highly preferred.

**Scientist—Peptide Synthesis**

Your PhD in chemistry/biochemistry along with 6–8 years of postdoctoral experience in peptide synthesis and purification has prepared you for this laboratory supervisor role. Guiding a small staff of lab assistants, you'll apply your extensive background to the design and synthesis of therapeutically important peptides. Your organic chemistry skills will also be applied to asymmetric synthesis of unnatural amino acids and peptidomimetic templates.

**Scientist/Associate Scientist—Compound Synthesis**

You must be committed to preparative synthetic chemistry to assume this Associate Scientist role, responsible for conducting multistep synthetic sequences leading to new drug targets. An MS/PhD in synthetic chemistry and 3–5 years' experience in medicinal or synthetic chemistry is required.

As a U.S. subsidiary of an international Fortune 500 company, Berlex offers competitive salaries and benefits, which include relocation assistance. To join our preeminent team, please send your resume today, indicating position of interest to: BERLEX BIO SCIENCES, HUMAN RESOURCES, 213 E. GRAND AVENUE, SOUTH SAN FRANCISCO, CA 94080. We are an equal opportunity employer.
POSTDOCTORAL POSITIONS IN CELLULAR AND SYSTEMS NEUROBIOLOGY. The newly established Department of Neurobiology has postdoctoral positions for Cellular and Systems Neurophysiology. The research is focused on cellular and developmental biology. Successful candidates should have demonstrated ability to carry out independent research. One position (Junior or Senior) will have teaching responsibility in gross anatomy; the other (Junior) in cell, developmental or neurobiology. Candidates should submit curriculum vitae, names of three references, and a short description of goals and research interests to: Michael D. Gershon, M.D., Department of Anatomy and Cell Biology, 680 West 168th Street, New York, NY 10032.

FACULTY POSITION IN BIOORGANIC CHEMISTRY. The Division of Bioorganic Chemistry and Molecular Pharmacology in the Department of Molecular Biology and Pharmacology at the Washington University School of Medicine invites applications for a tenure-track faculty position. Candidates with records of creativity in bioorganic chemistry who wish to participate in an active, growing department should forward curriculum vitae, a summary of current and future research plans and the names and addresses of three references to: Search Committee, Division of Bioorganic Chemistry and Molecular Pharmacology, Washington University School of Medicine, 660 South Euclid Avenue, Box 8020; St. Louis, MO 63110. Washington University School of Medicine is an Affirmative Action/Equal Opportunity Employer committed to increasing the representation of women and minority groups on its faculty.

The University of Alabama at Birmingham, An Equal Opportunity/Affirmative Action Employer, invites applications for FACULTY APPOINTMENTS in the Department of Pathology. An applicant should have an M.D., M.D.-Ph.D., or Ph.D. degree in one of the basic sciences such as biochemistry, cell biology, etc., and desire to focus his/her efforts on graduate education and research. Applicants will be considered who either have an existing established research program or have a plan to develop such a program. Academic rank and tenure are dependent upon the qualifications of the applicant. Curriculum vitae of interested persons should be forwarded to: Jay M. McDonald, M.D., Professor and Chairman, Department of Pathology, The University of Alabama at Birmingham, University Station, Birmingham, AL 35294.

ANATOMIST/PHYSIOLOGIST Openings in gross anatomy and physiology are available January 1, 1993. These are full time teaching positions in each discipline, with limited research opportunities. Individuals with both advanced degrees and relevant professional experience are encouraged to submit a letter of interest and a current complete résumé to: Director of Basic Sciences, Cleveland Chiropractic College, 6401 Rockhill Road, Kansas City, MO 64131. An Equal Opportunity Affirmative Action Employer.

POSTDOCTORAL POSITIONS (2). Available to study the function of new extracellular matrix proteins. The projects will involve the cloning and expression of the gene, production of protein in transgenic mice, and use of strongly expressed proteins as probes to examine gene regulation and tissue morphology. Send curriculum vitae and names of three references to: Dr. Ron Li Chu, Department of Biochemistry and Molecular Biology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107. We are committed to a smoke-free environment. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MOLECULAR AND CELLULAR BIOLOGY. A postdoctoral position is available to study the role of serine/threonine-specific protein phosphatases in growth control and tumorigenesis for DNA tumor viruses. Applicants should have experience in cell and molecular biology. Please send curriculum vitae, a brief description of research experience, and the names and addresses of three references to: Professor Richard T. Sumpter, Department of Pathology, Thomas Jefferson University, 233 South 10th Street, Philadelphia, PA 19107 or to: University of California, San Diego, 9500 Gilman Drive, La Jolla, CA 92030-0612.

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THE 1993 LOUISA GROSS HORWITZ PRIZE

The Louisa Gross Horwitz Prize was established under the will of the late S. Gross Horwitz through a bequest to Columbia University, and is named to honor the donor’s mother. Louisa Gross Horwitz was the daughter of Dr. Samuel David Gross (1805–1889), a prominent surgeon of Philadelphia, and author of the outstanding “Systems of Surgery” who served as president of the American Medical Association.

Each year, since its inception in 1967, Columbia University has awarded the Louisa Gross Horwitz Prize for outstanding basic research in the fields of Biology or Biochemistry. The purpose of this award is to honor a scientific investigator, or group of investigators, whose contributions to knowledge in either of these fields is deemed worthy of special recognition.

The prize consists of an honorarium and a citation which are awarded at a special presentation event. Unless otherwise recommended by the Prize Committee, the prize is awarded annually. The 1992 awardees were Professors Christiane Nüsslein-Volhard, Max-Planck-Institut für Entwicklungsbiologie (Developmental Biology) and Edward B. Lewis, California Institute of Technology.

QUALIFICATIONS FOR THE AWARD

The Prize Committee recognizes no geographical limitations. The prize may be awarded to an individual or a group. When the prize is awarded to a group, the honorarium will be divided among the recipients, but each member will receive a citation. Preference will be given to work done in the recent past.

Prospective recipients should be nominated to the Louisa Gross Horwitz Prize Committee. Nomination letters should include:
1. A summary, preferably less than 500 words, of the research on which this nomination is based.
2. A summary, preferably less than 500 words, of the significance of this research in the fields of biology or biochemistry.
3. A brief biographical sketch of the nominee, including positions held and awards received by the nominee.
4. A listing of up to ten of the nominee’s most significant publications relating to the research noted under Item 1.
5. A copy of the nominee’s curriculum vitae.

Send to: Louisa Gross Horwitz Prize Committee, Office of the Vice President for Health Sciences and Dean of the Faculty of Medicine, Columbia University, 630 West 168th Street, New York, New York 10032.
Deadline for receipt of nominations is January 8, 1993.

FACULTY POSITIONS
UCR/UCLA PROGRAM IN BIOMEDICAL SCIENCES

The UCR/UCLA Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, has two tenure-track openings at the level of ASSISTANT PROFESSOR in the Division of Biomedical Sciences at UCR available July 1, 1993.

NEUROSCIENCES. Primary teaching responsibilities will be in cellular neurobiology, including electrophysiology, for first-year medical students.

PHYSIOLOGY. Primary teaching responsibilities will be in cardiovascular, respiratory and gastrointestinal physiology for first-year medical students.

Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience, and must be able to develop a strong independent research program. The specific area of research is open, but preference will be given to cell biologists or physiologists who are using molecular and cellular techniques in their studies. Applicants should also have a strong commitment to teaching both medical and graduate students. Prior teaching experience in a medical school basic science curriculum is preferred. Applicants should send a curriculum vitae, bibliography, two or three representative reprints, a statement of present and future research goals, current grant support, and the names of three references. The deadline for applications and nominations is December 1, 1992.

Send applications to: David A. Johnson, Chair (Neurosciences) or Paul M. Quinton, Chair (Physiology), Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121.

The University of California is an Affirmative Action/Equal Opportunity Employer.
POSTDOCTORAL EFFECTIVE EXPERIMENTATION IN DURHAM, NEW HAMPSHIRE

The USDA Forest Service, Northeastern Forest Experiment Station in Durham, New Hampshire has a POSTDOCTORAL position open for a Quantitative Plant Physiologist in its Quantitative Methods Project. Salary: $38,861 to $50,516 (GS-12). Assignment is to formulate and coordinate research addressing (1) the effect of environmental stress on the anatomical development and physiological functions of woody plants and (2) the physiological, biochemical, and genetic mechanisms of woody plant growth and development. Applicants should have experience in molecular biology, plant physiology, or plant biochemistry. Send curriculum vitae and names of three references to: Michael F. Nash, USDA Forest Service, Northeastern Forest Experiment Station, P.O. Box 8052, Telephone: 303-491-8576, FAX: 303-491-0494. CSU is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL APPOINTMENTS IN NMR PROTEIN STRUCTURE DETERMINATION

The Biochemistry and Spectroscopy Group (INC-14) of the Isotope and Nuclear Chemistry Division at Los Alamos National Laboratory has immediate openings for two postdoctoral fellows. The projects will involve applications of stable isotope labeling and multidimensional NMR techniques to the study of protein structures in solution. Specifically we are interested in small electron transport proteins, and calcium binding protein complexes. We have a new 500 MHz NMR spectrometer equipped with the necessary accessories for three and four dimensional NMR spectroscopy as well as gradient enhanced NMR. We also have a variety of spectroscopic facilities and expertise, and there will be ample opportunity for complementary work using, for example, Raman, FTIR, and CD spectrosopes, as well as small-angle X-ray scattering. Additionally, the group is well equipped for 13C, 15N, and 2H labeling of proteins using bacterial expression systems. To be considered, candidates must have earned their Ph.D. within the last three years. Although desirable, the candidate need not have extensive experience in NMR spectroscopy. He or she should have experience in protein structural work and a background in biophysics or biochemistry. For more information on the research projects please contact the principal investigators: Bent O. Oehlbeck (505) 665-2560 and Dr. Jim Trewbilla, (505) 667-2031; INC-14, MS C345, Los Alamos National Laboratory, Los Alamos, NM 87545.

Postdoctoral appointments are for two years, may be renewed for a third year, and pay a starting salary of $39,660 to $41,770 per annum. Appointees receive generous employee benefits, including incoming travel and moving expenses. To formally apply send curriculum vitae, three letters of reference, graduate and undergraduate transcripts, and a research statement of five pages to: Anna M. Trewbilla (MS C280), Human Resources Development Division PD-92-113, Los Alamos National Laboratory, Los Alamos, NM 87545. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

POSTDOCTORAL ASSOCIATE TO STUDY CFTR

One or two postdoctoral positions are available for study of the molecular biology and protein chemistry of the cystic fibrosis transmembrane conductance regulator (CFTR). Projects available include structure and function analysis of purified CFTR protein, structural characterization (including crystallography) of CFTR, and development of CFTR gene delivery systems for human respiratory epithelia. A background in molecular biology and genetics and/or membrane protein chemistry is preferred. Applicants should include curriculum vitae, names and addresses of three references, and a letter of research interests to: Dr. Eric J. Sorscher, Department of Physiology, Uniformed Services University, Bethesda, MD 20814. The University of Alabama at Birmingham, BHSB 761, Birmingham, AL 35294. UAB is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITIONS IN EUKARYOTIC TRANSCRIPTION IMMEDIATELY AVAILABLE


POSTDOCTORAL POSITIONS IN THE THEORETICAL BIOLOGY AND BIOPHYSICS GROUP (T-10)

at Los Alamos. The group seeks applications from outstanding postdoctoral candidates to study structure-function relationships of unusual DNA structures and the proteins that catalytically recognize them. The work will utilize biophysical techniques including high resolution multidimensional NMR spectroscopy, CD/VUV spectroscopy, and optical spectroscopy using the 400/500 MHz spectrometer is required. Experience in molecular modeling is desirable. Annual stipends are approximately $39,660 to $41,770. Applications are being reviewed on an annual basis. Eligibility is limited to candidates who have received a doctoral degree within the past three years. The selection committee meets in December, February, May, and August 1993. For initial consideration, send curriculum vitae to: Dr. Christian Burks, T-10, MS B210, Los Alamos National Laboratory, Los Alamos, NM 87545. Los Alamos National Laboratory, Los Alamos, NM 87545. Affirmative Action/Equal Opportunity Employer. Los Alamos National Laboratory is operated by the University of California for the U.S. Department of Energy.

POSTDOCTORAL POSITIONS IN SIGNAL TRANSDUCTION AT THE UNIVERSITY OF UTAH

Ph.D. molecular biologists with expertise in biochemistry, genetics, or microbiology to study molecular mechanisms of sensory signaling in E. coli. Current projects include: role of membrane-spanning segments in transmembrane signaling by chemoreceptors; structural characterization of soluble receptor fragments with constitutive signaling activities; structure-function analysis of a putative kinases, serine/threonine signaling; in vivo and in vitro studies of coupling reactions between membrane receptors and cytoplasmic kinases. Starting dates between January and June, 1993; periods of two to four years; salaries at NIH fellowship levels. Send curriculum vitae and three recommendation letters to: Dr. John S. Parkinson, Biology Department, 201 Biology Building, University of Utah, Salt Lake City, UT 84112. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE

Applicants should have a Ph.D. in biochemistry, molecular biology, cell biology or related experience in these disciplines. Experience in purification of proteins, rinsing and protein phosphorylation in the prostate in relation to the androgen action. Although specific experience is not required, a background in biochemical and molecular biological techniques is essential. Salary is commensurate with experience. Send curriculum vitae along with three names of referees to: Dr. Khalil Ahmed, Department of Laboratory Medicine and Pathology, Box 198 UMHC, 420 Delaware Street SE, Minneapolis, MN 55455. Telephone: 612-626-3000, extension 2594 or 2876, FAX: 612-625-2093.

The University of Minnesota is an Equal Opportunity Educator and Employer.

POSTDOCTORAL POSITION available, with funding for three years, in a project investigating mutations in the target enzyme as a mechanism of clinical resistance to anti-cancer drugs. This research involves the molecular biology and enzymology, including steady state and transient kinetic studies, of being used to determine which mutations of the enzyme confer the greatest resistance while maintaining efficient catalytic activity. The possible presence of such mutations in tumor cells of patients relapsing during treatment with the drug is being investigated. In addition, a closely related discipline required, and experience in directed mutagenesis, PCR and related techniques an advantage. Salary is NIH fellowship level funds of up to $1,500, and professional development funds of $1,000 annually. Send curriculum vitae with names and addresses of three references to: Raymond L. Blake, Ph.D., D.Sc., Department of Pharmacology, St. Jude Children's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. AFFIRMATIVE ACTION/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available for study of proteins associated with dystrophin and related proteins and (2) proteins involved in clustering of the nicotinic acetylcholine receptor, both in close collaboration with a molecular biology laboratory (S. C. Fronstin) in this Department. Applicants should have experience in molecular biology, protein biochemistry or monoclonal antibody techniques. Send curriculum vitae and, if available, names and three references to: Robert W. Seallow, Department of Physiology, CB 7545, University of North Carolina, Chapel Hill, NC 27599 or FAX: (919) 966-6927.

POSTDOCTORAL POSITIONS available to study the function and regulation of integrin adhesion molecules from platelets and their background in molecular biology required. Send curriculum vitae, statement of research interests, and names of three references to: Leslie V. Farlie, Ph.D., Department of Pharmacology, CB 7365, University of North Carolina, Chapel Hill, NC 27599. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION: K+ CHANNEL GENE REGULATION

Postdoctoral position available immediately to define the lymphocyte-specific and mitogen-activation-dependent regulatory gene (Kv1.1) expression in normal and diseased lymphocytes. Previous experience in molecular biology required. Send curriculum vitae with names and addresses of three references to: Dr. Kathleen M. Mulder, Department of Pharmacology, Pennsylvania State University College of Medicine, 500 University Drive, Hershey, PA 17033, FAX: 717-531-8015.


POSTDOCTORAL AND PREDOCTORAL TRAINING IN NEURAL PROCESSES IN COGNITION

Opportunities for investigating cortical function at multiple levels of analysis. This is a laboratory program between the University of Pittsburgh, its School of Medicine, and Carnegie Mellon University. Applications are encouraged from individuals with background in molecular biology, genetics, physics, mathematics, or computer science. Postdoctoral and predoctoral positions are available. Applications are due by 1 May, 1993. For additional information contact: Dr. W. James autobr, Department of Psychology, University of Pittsburgh, Pittsburgh, PA 15260. Telephone: 412-624-7061. E-mail: NEUROCOG@PIITVMS.BITNET.

POSTDOCTORAL POSITION supported by an NIH grant. Available January 1993, to study molecular biology of coagulation factors VII and X. Study to involve PCR, recombinant DNA, site-directed mutagenesis, documentation of genetic variants, eukaryotic cell expression, molecular cloning of receptor interacting sites, computer-assisted molecular modeling, and design of inhibitory peptides. Send curriculum vitae, salary requirements, and names of three references to: Todd A. Stetler, Ph.D., Department of Biochemistry, The University of Texas Health Center at Tyler, Tyler, TX 75701. Telephone: 903-877-7588, FAX: 903-877-7588. Equal Opportunity/Affirmative Action Employer.

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**CRC Return Fellowships**

The Cancer Research Campaign announces its 1993/94 Return Fellowship Programme to encourage the return to the UK of outstanding young research scientists currently working abroad.

Candidates should have a PhD, normally be aged less than 40 years and have completed at least one three year period working in an overseas laboratory. A CRC Return Fellowship may be held in any CRC-funded Research Institute, Laboratory or Research Group, or alternately in an appropriate UK university department, subject to the usual CRC funding restrictions.

The Fellowship, will provide both personal and research support, and will normally be awarded for six years.

For further details and application forms please contact Dr Fiona Hemsley, Cancer Research Campaign, Cambridge House, 6-10 Cambridge Terrace, Regent’s Park, London NW1 4JL. Telephone 071-224 1333 ext 184. Fax 071-487 4302.

Closing date for applications: 26th February 1993.
A Thriving Environment For Research

Amgen is an innovative leader in the discovery, development and marketing of human therapeutics. Our advanced research in biotechnology has resulted in such breakthrough products as EPOGEN® (recombinant human Erythropoietin) and NEUPOGEN® (recombinant human G-CSF). We currently have the following opportunities for Research Scientists and Research Associates:

RESEARCH SCIENTISTS

BACTERIAL EXPRESSION
The Bacterial Expression Department currently has positions available for Scientists with a minimum of a Ph.D. plus two years relevant research experience. Special consideration will be given to molecular biologists with experience in bacterial genetics, cloning, microbial culturing optimization, recombinant product expression, protein purification, protein refolding, and site specific proteases. Code #S-406

RESEARCH ASSOCIATES

DNA SEQUENCING
Responsibilities involve DNA sequencing in support of on-going research and product development programs. Qualifications include a BS or MS degree in Molecular Biology, Biochemistry or related discipline with at least one year experience in the dideoxy chain termination method of DNA sequencing. Basic skills in Molecular Biology, cloning techniques and computer analysis of DNA sequencing are also essential. Experience with ABI 373 automatic sequencer preferred. Code #S-807

PHARMACOLOGY
This Research Associate position involves in vivo research and requires knowledge of surgical and catheterization techniques, injection methods, tissue and blood sampling, as well as biochemical/immunologic. Statistical analysis and computer skills are preferred. Code #S-136

If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its people, send your CV indicating Job Code # to: Amgen, Inc., Staffing Department (Mail Code 10-1-A-411), Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an Equal Opportunity Employer.

Science's 2nd Annual Pharmaceutical/Biotechnology Careers in Industry

February 12, 1993

Special advertising section focusing on careers in today's Pharmaceutical and Biotechnology industry. Full-page and larger ads will be accepted into this section which will be reprinted and distributed separately at the 37th Annual Meeting of the Biophysical Society. All ads in this section will have the benefit of the Harvey Research study on reader receptiveness. Find out first hand how readers react to your recruitment advertisement.

Space reservation deadline: January 26, 1993
Call Janis Crowley at 212-496-7704 for more information or to make your space reservation.

European Recruitment Advertising contact: Annemarie Vis, +44 223 424 695 (24-hour phone and fax)
We are seeking a PhD Scientist, with a strong background in Microbial Physiology, to play a key role in discovering lead structures in a variety of therapeutic areas. As a member of our Natural Products Discovery and Screening Department, you will devise and implement microbial procedures to prepare novel secondary metabolites for evaluation in a broad range of pre-clinical investigations. An in-depth understanding of biosynthetic pathways along with expertise in substrate feeding, mutasynthesis, strain improvement and biotransformation techniques are required, as well as hands on experience with contemporary bioreactors and laboratory-scale recovery methods. Strong communication and interpersonal skills are necessary to function as part of a highly interactive team. Candidates with training in microbiology, biochemistry or biochemical engineering with a discovery orientation will also be considered.

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POSTDOCTORAL POSITION
UNIVERSITY OF CALIFORNIA, SAN FRANCISCO


CANCER BIOLOGY TRAINING

Graduate training (D.V.M., predoktoral and postdoctoral students) is available in the CANCER BIOLOGY LABORATORY, Department of Pathology, Cornell University. Training in the area of regulatory genes controlling cell proliferation and differentiation in hematopoietic and epithelial cells, adhesion molecules in cancer metastasis, and signal transduction by cell adhesion is available in the laboratories of Drs. J. F. E. Bond, Roy Levine, and Andrew D. Cross, 15601 Minnetonka Parkway, Minnetonka, Minnesota, 55343. Please write to: Dr. Andrew D. Cross, Department of Pathology, U. S. Army Medical Research and Development Command, Ft. Detrick, P. O. Box 1745, Frederick, MD 21701. Phone: (301) 843-4439. Fax: 301-843-0818. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS AND GRADUATE RESEARCH ASSISTANTSHIPS IN PLANT-INFECT INTERACTIONS

The Interdisciplinary Research Training Program (RTF) on Plant-Infest Interactions at the University of Arizona invites applications for Postdoctoral Fellowships and Graduate Research Assistantships. The RTF is funded by the DOE/DOE/USDA Joint Program on Collaborative Research in Plant Biology. Its goals are to provide effective interdisciplinary training in plant and insect sciences and to develop a better understanding of the complex interactions between plants and insects to serve as a guide for genetic engineering of plants for pest control. For further information, interested students should write to: Plant-Insect Interdisciplinary Program, 410 Forbes Building, The University of Arizona, Tucson, AZ 85721. According to the conditions of the grant, stipend recipients must be citizens, nationals, or permanent residents of the United States. Arizona is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW

Position is available immediately to study how aging modulates intracellular calcium metabolism. Experience with flow cytometry, image analysis, signal transduction and molecular biology techniques is desirable. Salary dependent on experience. Send letter of application and curriculum vitae, and arrange for three letters of recommendation to be sent to: Dr. Mike N. Kaluz, Department of Pharmacology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284–7756. An Affirmative Action/Equal Opportunity Employer.

MOLECULAR CYTOGENETICS

A POSTDOCTORAL RESEARCH ASSOCIATE position is available immediately to study the mechanism of cytogenetic abnormalities and effects on human development. Applicants must possess Ph.D. or M.D. degree and have significant research experience in either cytogenetics or molecular biology techniques. A.B.M.G. certification in Clinical Cytogenetics or Molecular Genetics is available. Please send curriculum vitae and names of three or more references to: Dr. H. Ledbetter, Institute for Molecular Genetics, Baylor College of Medicine, Houston, TX 77030.

POSTDOCTORAL FELLOWSHIP in Immunology and Virology at the University of Massachusetts Medical Center. Cellular Immunology: Robert Humphreys, M.D., Ph.D.; Lawrence Jung, M.D.; A. L. Mistilis; M. J. M. Ph.D.; David C. Parker, Ph.D.; Paul L. Romain, M.D.; Robert T. Woodland, Ph.D. Molecular Immunology: John E. Mole, M.D.; J. A. Savelkoul; Ph.D; J. C. Stavnezer, Ph.D. Viral Immunology: Neil R. Blacklow, M.D.; Francis A. Ennis, M.D.; John E. Herrmann, Ph.D.; Ichiyo Kurane, M.D.; John N. Sullivan, M.D.; Raymond Carell, M.D.; M.D.; Bruce A. Woda, M.D. Candidates interested in joining this active, multidisciplinary, NIH-supported training program should submit a curriculum vitae, a brief description of research interests, and a letter stating their research interests and the laboratories in which they would be interested in undertaking training to: Dr. Harriet L. Robinson, Department of Pathology, U. S. Army Medical Research and Development Command, Ft. Detrick, P. O. Box 1745, Frederick, MD 21701. Phone: (301) 843-0818. Fax: 301-843-4439. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP DROSOPHILA IMMUNE REACTIONS

In a project focused on the molecular mechanisms that trigger the antimicrobial response in Drosophila, the genes for cecropins, inducible bactericidal peptides, were cloned and characterized in the lab during the past few years. We are now interested in the primary events that lead to transcriptional upregulation of these genes. Approaches include molecular screens for cell surface receptors and genetic screens for trans-acting factors, using reporter gene fusions, and in vivo studies of an inducible blood cell line. The candidate should have a strong background in genetics, molecular biology or immunology, and a Ph.D. degree. Starting date: January–June 1992. Send curriculum vitae, a description of research interests and the names of three references (if possible, with FAX) to: Dr. J. P. Robinson, Department of Molecular Biology, Stockholm University, S-106 91 Stockholm, Sweden: FAX: +46-8-15 23 80; E-mail: Dan@molbio.su.se. Affirmative Action/Equal Opportunity/Rehabilitation/Revised 3/91.

PREDOKTORAL AND POSTDOCTORAL FELLOWSHIPS


POSTDOCTORAL RESEARCH FELLOWSHIP for NIH-funded studies of the immune response to coagulation factors V, VIII, IX or X and/or factor VIII or IX using recombinant DNA methods. Experience in molecular and cell biology techniques. Send curriculum vitae, a brief description of research experience, and two letters of recommendation to: Dr. L. E. Byrd, Division of Hematology, University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW OR RESEARCH ASSOCIATE Position is available immediately to investigate new antiviral and viral vaccine approaches. Required experience includes recombinant DNA methods, expression vectors, cell biology, molecular biology and animal models. Also required is experience in molecular biology of human immuno-deficiency virus (HV) and/or other retroviruses, and tissue culture growth and assay of HV or other retroviruses. Send curriculum vitae, a brief description of research experience, and names of three references to: Dr. Michael J. Kalish, Department of Microbiology, University of California, Irvine, CA 92717. The University of California, Irvine is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN IMMUNOLOGY

A postdoctoral fellowship position is available immediately in Immunology/Cell Biology laboratory. Research interests include structure/function of signal transducing molecules and regulation of IgE isotype switching. Expertise in molecular biology and/or biochemistry is highly desirable. Funding is provided by a National Research Service Grant for a maximum of three years. Send curriculum vitae and references to: Dr. Raif S. Geha, Children's Hospital, 300 Longwood Avenue, Boston, MA 02115. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW RESEARCH ASSOCIATE

Position available to join a group studying interactions of antiviral agents with host at a molecular level. Experience in biochemistry and molecular biology is essential. Molecular studies will require Southern and Northern blot analysis, CAT assays, gel mobility shift assays, transfection, etc. A Ph.D. in biochemistry or equivalent with experience in gene expression regulation is desirable. Stipend is highly competitive. Forward curriculum vitae and names of three references to: Dr. J. P. Sommerville, AIDS Pharmacology Program—VH 113, 1700 University Boulevard, University of Alabama at Birmingham (UAB), Birmingham, AL 35294-0019. UAB is an Affirmative Action/Equal Opportunity Employer.

NEW NEUTROPHIL HUMAN LINKAGE CENTER POSTDOCTORAL AND RESEARCH ASSOCIATE candidates must have a Ph.D. in genetics, molecular biology or a related discipline. RESEARCH ASSISTANT candidates must have a B.S./B.A. or equivalent combination of education and experience in a related field. The University of Iowa is an Equal Opportunity/Affirmative Action Employer: minorities and women are encouraged to apply. Send curriculum vitae to: Val Sheffield, M.D., Ph.D., or Jeff Murray, M.D., University of Iowa-Genetics, University of Iowa, Iowa City, IA 52242.

POSTDOCTORAL FELLOWSHIPS

The Department of Physiology and Biophysics, University of California, Irvine, is developing a postdoctoral candidate search for possible training during the remainder of the 1991–92 fiscal year. Openings may be available in the following research areas: ion channels in lipid bilayers; physical chemistry of membranes; mechanisms and regulations of steroid hormone biosynthesis; exercise physiology; molecular properties of ion channels in excitable cell membranes; molecular and electrophysi- ology of muscles. Salary is in accordance with current NIH/NSF postdoctoral stipends which are based upon qualifications and years of prior research experience. Fellowship candidates, and women and minorities are encouraged to apply. Send curriculum vitae and names of three references to: Michael D. Cahalan, Ph.D., Chairman, Department of Physiology and Biophysics, University of California, Irvine, CA 92717. The University of California, Irvine is an Affirmative Action/Equal Opportunity Employer.
It's no wonder that we have a global reputation for tropical studies.

With one of the wonders of the natural world right on our doorstep, it's no surprise that the James Cook University is recognized worldwide as an authority on tropical marine sciences and technology.

Beyond the rich eco-diversity of the Great Barrier Reef, however, a campus surrounded by tropical rainforest has ensured our research leadership in fields as diverse as tropical veterinary and environmental sciences, tropical health and medicine, cyclone engineering and tropical architecture.

Professor of Biology and Biotechnology, Dr. Michael G. Tannenbaum, biology search committee, Division of Science, Northeast Missouri State University, Kirksville, MO (816-785-4597). Completed applications will be reviewed starting 1 December 1992.

Academics of international standing carry out vital research in our modern, well-equipped laboratories, workshops and facilities, while an excellent reputation for education also attracts students from throughout Australia and the world.

Established links with international industry, governments and educational institutions stand as further testament to our contribution to the world's understanding of the tropical environment.
POSTDOCTORAL RESEARCH FELLOWSHIP IN BIOCHEMISTRY

Los Alamos National Laboratory is seeking applications for a postdoctoral research associate position in biochemistry to carry out basic research on respiratory proteins from the thermophile Thermus thermophilus. Individuals interested in examining the spectroscopic, mechanistic, and/or genetic aspects of cellular respiration are encouraged to apply. Candidates should have a strong background in physical biochemistry and/or molecular genetics and a strong desire to pursue a career in biorenergics. The starting salary range is $39,660 to $47,900, depending on date of hire between January and June, 1993. Applicants must have received a Ph.D. in Chemistry, Biochemistry or Molecular Biology during the past three years. For initial consideration, interested candidates should forward curriculum vitae including a list of publications to: James A. Pease, MS C-345, Los Alamos National Laboratory, Los Alamos, NM 87545. To formally apply for this position, send curriculum vitae, employment application, three letters of reference, graduate and undergraduate transcripts to: Mary Anne With (MS P2800), Human Resources Development Division, POD-92-117, Los Alamos National Laboratory, Los Alamos, NM 87545. Applicants must be U.S. citizen with an active U.S. citizenship required. Los Alamos National Laboratory is operated by the University of California for the U.S. Energy Department.

ASSISTANT RESEARCH SCIENTIST

NYU Medical Center has a POSTDOCTORAL RESEARCH SCIENTIST position available to clone the gene for a novel marine B cell IgA receptor and study its structure, function and regulation. Ph.D. in molecular biology required. Send curriculum vitae and copies of three references to: Maha Singh, Human Resources Department, New York University Medical Center, 550 First Avenue, New York, NY 10016. Equal Opportunity Employer, M/F.

RESEARCH ASSISTANT

Miles Inc., Pharmaceutical Division, has an opening at the Berkeley, CA site for the position of a Research Scientist with experience in complex carbohydrate analysis of mammalian glycoproteins. Responsibilities include:

- Glycosyl composition and linkage analysis of natural and recombinant proteins
- Analysis/interpretation of data and technical report preparation
- Evaluation of structural data for possible in vivo effects

A Ph.D. in an appropriate discipline with a minimum of 4 years of experience in complex carbohydrate analysis is required. Miles Inc. offers attractive compensation and generous benefits. Send resume and salary history to JoAnn McHugh, Miles Inc., 4th & Parker Sts., P.O. Box 1986, Berkeley, CA 94701.
INTERNATIONAL SPINAL INTRA-SURGICAL TECHNOLOGY

The ISRT is dedicated to encourage and support research which may lead to the restoration of function after spinal cord injury. However it also recognises the huge potential of recent basic discoveries of the many factors associated with growth, guidance and target recognition. While the Trust excludes no promising approaches, it considers a particularly promising area to be the behaviour of whole cells in vivo. In order to advance, it may now be useful to form groups from various disciplines who would co-operate on the next stages. It intends to offer core support of up to $500,000 over three years to allow one or more such groups to form.

Applicants are asked to send a two page letter outlining a plan of research for such a potential grouping. A preliminary budget breakdown is also requested. Background material on available research facilities and on the record of the principal investigators should be included. The project may be in basic, applied or clinical sciences in any country. Successful applicants will be approached by ISRT for detailed plans.

CONTACT: Research Director, ISRT Research Division, Unit 7 Bramley Business Centre, Station Road, Bramley, Guildford, Surrey, GU5 0AZ, UK
Fax no: 0483 898763
Deadline for preliminary applications: Friday, 22nd January 1993
Expected date for decision on shortlist: Friday, 26th March 1993

NOVEX has rapidly become a leading manufacturer of pre-cast electrophoresis gels and related life-science separations products. We are committed to bringing innovative, time-saving separations products and excellent service to the research market in order to maintain rapid growth and market leadership.

Development Director

The successful candidate will have a Ph.D. in chemistry or biochemistry and 5+ years experience in product development management. Fundamental knowledge of separations techniques, and practical experience with electrophoresis is essential. Knowledge of polymer chemistry is desirable. Excellent communication skills and a multi-disciplinary approach are required to form an effective partnership with marketing and manufacturing.

Please send your resume in confidence to: Rita McFayden, NOVEX, 4202 Sorrento Valley Blvd., San Diego, CA 92121

DIRECTOR, OFFICE OF EXPLORATORY RESEARCH OFFICE OF RESEARCH AND DEVELOPMENT U.S. ENVIRONMENTAL PROTECTION AGENCY

EPA is seeking a senior administrator as Director of the Office of Exploratory Research (OR) in the Office of Research and Development (ORD) in Washington, D.C. The Director develops policies and administers ORD's scientific review of requests for funding assistance in the grants and centers programs with the university community, Small Business Innovation Research Program, and personnel development programs. The Director also serves as the ORD focal point for university and other Federal agency relations with EPA's extramural research programs.

Applicants for this Senior Executive Service (SES) position must have a bachelors or higher degree (doctorate preferable) in one of the engineering, biological or physical sciences and substantial professional experience demonstrating scientific leadership and competence. Experience in the academic community is desirable. Salary range for this position will be between $90,000 and $106,300. For a copy of the Vacancy Announcement, or to submit an application, contact Ms. Chaunta Gladney, Environmental Protection Agency, Executive Resources and Special Programs Division, PM-224, Room M3910, 401 M Street, S.W., Washington, D.C. 20460. The telephone number is 202-260-3328.

Applications must be postmarked by December 8, 1992.

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**Vice President Product Development**

Anergen is an exciting and growing biotechnology firm developing novel therapeutics for the treatment of human autoimmune diseases including multiple sclerosis, myasthenia gravis and rheumatoid arthritis.

In this senior production development position, you will plan and direct the activities relating to the design and development of the company’s product line. Requires an MD, PhD or equivalent in a pharmaceutical discipline and 5+ years’ experience in the development of protein-based therapeutics from IND through product approval. Experience interacting with clinical and regulatory affairs, internally and externally, is essential.

Anergen offers an attractive compensation and benefits package, including equity participation. Please forward your resume to: Anergen, Inc., Attn: Joan Shields, 301 Penobscot Drive, Redwood City, CA 94063; fax (415) 361-8958. EOE.

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**SENIOR SCIENTIST**

**Bronchopulmonary Research**

Respected worldwide as a leading producer of quality pharmaceuticals, Hoffmann-La Roche is also renowned for its commitment to its professional staff. We encourage an atmosphere which rewards intellectual freedom, innovation and self-motivation.

Our Bronchopulmonary Department is expanding and strengthening its efforts to discover the next generation of therapeutics for the treatment of asthma and allergies. To assist us in this effort, we are seeking an outstanding researcher at the Senior Scientist level to develop an independent research program. The focus of this position will be on the application of molecular biology techniques to the study of receptor-ligand interactions, molecular mechanisms of cellular activation and signal transduction.

The successful candidate will have a Ph.D in Biochemistry, Cell Biology, Immunology, Molecular Biology or Molecular Pharmacology and a minimum of 2 years of postdoctoral training in a related research area.

The esteem with which Roche holds this position is reflected in a compensation package designed to attract and retain a candidate of preeminent scientific intellect. Please send resume with salary history/requirements (those without this information will not be acknowledged) to: Mrs. Eleanor Malone, Staffing Dept. EM162.JK, Hoffmann-La Roche Inc., Nutley, NJ 07110-1199. An equal opportunity employer.

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**Markey Fellowships for graduate study programs in La Jolla.**

**Predoctoral Training in Cellular and Molecular Biology**

A fellowship program for graduate studies supported by the Lucille P. Markey Charitable Trust is being offered at UCSD. The fellowships will provide outstanding students with unique research and training opportunities at the University of California at San Diego, the Salk Institute, the Scripps Research Institute, and the La Jolla Cancer Research Foundation.

This innovative program will be integrated with already existing UCSD graduate student training program in Biology, Biomedical Sciences, Chemistry (Biochemistry), Molecular Pathology, and Neurosciences.

Students accepted in the program will receive full support as Markey fellows at a nationally competitive level and will have lateral mobility from one program to another during the first year of studies.

To receive more information about the application procedure contact: Tel: 619/534-8671 Fax: 619/534-8649 UCSD, MC 0651, 9500 Gilman Dr., La Jolla, CA 92037-0651, Attn: Markey.

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**CELL AND MOLECULAR BIOLOGISTS**

Department of Cell & Structural Biology. University of Illinois at Urbana-Champaign, invites applications for ASSISTANT, ASSOCIATE, or FULL PROFESSOR, from PhD scientists interested in establishing an outstanding research program in a young, expanding department. Potential areas of focus include membrane receptors and signal transduction, cellular control, nuclear and cytoskeletal structure/function, cellular immunology, developmental biology, and molecular aspects of virus/host interactions. Responsibilities also include teaching core cell biology courses. Position is full-time, available beginning 1993-94 academic year. Salary will be commensurate with experience and level.

Substantial start-up funds and laboratory facilities are available, along with exceptional physical and intellectual resources of the University: Transgenic Animal Facility; Center for Electron Microscopy; Genetic Engineering Facility, providing oligonucleotide and peptide synthesis and automated protein sequencing; Cell Science Laboratory, providing hybridoma culture and flow cytometry; Molecular Graphics Facility; National Center for Supercomputing Applications; and Beckman Institute for Advanced Science and Technology, which combines research in biological and physical sciences.

Urbana-Champaign offers the residential advantages of a medium-sized city (population 120,000) plus excellent cultural amenities on campus. Its location gives easy access to Chicago and St. Louis.

Applicants should send curriculum vitae, summary of research interests, and three letters of reference to: Ms. Ann Zielinski, Search Coordinator, Department of Cell and Structural Biology, University of Illinois, 506 Morrill Hall, Urbana, IL 61801. Telephone: (217) 333-6118.

To ensure full consideration, applications should be received by 15 January 1993. Interviews may be conducted before this date, but all applications received by then will be given full consideration. Final selection will not be made until after this date.

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**The University of ILLINOIS**

at Urbana-Champaign

CHAIRMAN OF MICROBIOLOGY

Boston University School of Medicine solicits applications for the position of Chairman of Microbiology to direct the research, teaching, and administrative functions of the department. Individuals with active research programs in molecular virology, retrovirology, molecular immunology, and AIDS research are of particular interest but individuals with established expertise in other relevant fields will also be considered. Applicants are requested to submit a current curriculum vitae and the names and addresses of three referees to

Mary C. Williams, Ph.D.
The Pulmonary Center, K-6
80 E. Concord St., Boston, MA 02118.

Applications are requested by December 15, 1992, but may be submitted thereafter until a candidate is appointed. Applications from women and minorities are particularly sought.

Boston University is an equal rights employer.

FACULTY POSITION: CANCER RESEARCH—TRANSGENIC MICE

The Department of Molecular Genetics at the Ohio State University, in collaboration with the OSU Comprehensive Cancer Center, is searching for a tenure-track faculty member at the Assistant, Associate or Full Professor level. We are interested in highly qualified applicants who are conducting basic investigations in the general field of cancer research and who use transgenic mice as the experimental system. The faculty member will be housed in a spacious, recently renovated laboratory in the Biological Sciences Building and will have excellent access to the recently completed transgenic mouse facility located at the OSU Biotechnology Center. The transgenic facility includes state-of-the-art equipment as well as technical support.

A generous recruiting package is available, including a highly competitive, hard money salary, as well as substantial funds for equipment purchase and initial operating expenses. The Ohio State University is in the process of a major expansion in Molecular Biology and Biotechnology, and a substantial number of additional positions are anticipated in the future. Research with transgenic mice is one of the areas targeted for expansion.

The Ohio State University is the flagship institution of the state's higher education system. It is located in the state capital, Columbus, which is a growing, yet highly affordable metropolitan area of about 1.3 million people. Columbus has been ranked by Newsweek as one of the country's best places to live and work.

Applications should include a detailed curriculum vitae, a description of research experience, a statement of the nature of the planned independent research program, and the name, address and telephone number of each of four scientists who have agreed to serve as references. Applications will be accepted until suitable candidates are hired, but recruiting is scheduled to begin in earnest by January 1993. Information about our Department can be obtained by calling our office at 614-292-8064.

Applications should be sent to: Dr. Lee Johnson, Molecular Genetics Search, Department of Molecular Genetics, The Ohio State University, 484 W. 12th Avenue, Columbus, OH 43210.

The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and individuals with disabilities are encouraged to apply.

CELL BIOLOGIST
Pharmaceutical Products Division

You will participate in research relating to the overexpression of recombinant proteins in mammalian and insect cells, the establishment of primary cultures from various tissues, and the large-scale culture of mammalian cells. Specific duties will include supervising a group of cell biologists as they collaborate with scientists throughout the anti-infective, cardiovascular, immunoscience, and neuroscience fields.

We require a PhD or equivalent in the life sciences—cell biology preferred—and 3-5+ years of relevant postdoctoral experience. Knowledge of molecular biology would be a plus. Reply to Patricia Handy, Job# BS7500.

RESEARCH INSTRUMENT SCIENTIST
Diagnetics Division

You will be responsible for research of interfacial effects in the dispensing, motion, and mixing of small volumes of fluid. Additional duties include developing methods to experimentally determine and quantitatively analyze the mechanisms through which inter-

faces alter the stability and motion of multiphase flows in instrument fluid delivery systems.

We require 5+ years of industrial research background, including practical experience with optical measurement techniques/instrumentation. Familiarity with UNIX, Macintosh, and DOS computer systems is essential. A PhD in Engineering, Physics, or Physical Chemistry is preferred. Reply to Linda DeLavallade, Job# 15857.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban setting, approximately 30 miles north of Chicago. For confidential consideration, please forward a resume (indicating appropriate reply name and Job #) with salary history to: Corporate Staffing, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

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POSITIONS OPEN

BOTANIST
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We seek a broadly trained botanist to teach general ecology, vascular plants, and some combination of courses from the applicant's field of expertise, and/or the environment. Ph.D. expected. The successful applicant will be expected to develop an active research program involving plants, preferably field-oriented, which will involve undergraduate student participation. Applicants with an interest in interdisciplinary teaching will be given preference. This position is a tenure-track appointment to begin in August 1993. Review of complete applications will begin November 20, 1992. Send curriculum vitae and two letters of reference to: Dr. Kenneth L. Crowell, Search Chair Department of Biology St. Lawrence University Canton, NY 13617

St. Lawrence University is committed to fostering multicultural diversity in its faculty, staff, student body and programs of instruction. As an Equal Opportunity/Affirmative Action Employer, we specifically encourage applications from women, minorities and persons with disabilities.

DEVELOPMENTAL BIOLOGIST. Faculty position available in the Department of Anatomy for a Developmental Research Faculty with research program in molecular aspects of development, e.g., gene expression, cell and tissue interactions, role of regulatory molecules in development. Must have postdoctoral experience and ability to develop a productive research program. Teaching responsibilities include participation in teaching anatomical sciences in the Medical-Dental curriculum; participation in the graduate program in developmental biology. Prior teaching or training in anatomy desirable but not required. Applicants should submit curriculum vitae, list of publications, projected research plans, and names of three references to: Dr. J. Cooperstein, Professor Emeritus and Acting Head, Department of Anatomy, MC 3405, The University of Connecticut Health Center, Farmington, CT 06030. U.S. Applications will be accepted until the position is filled.

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The Biotechnology Patent Examining Group of the Patent and Trademark Office is currently recruiting scientists for positions as PATENT EXAMINERS. Individuals with advanced degrees and/or equivalent experience in the fields of immunology, molecular biology, gene therapy, plant genetics and plant breeding, biochemistry, protein engineering and microbiology are urged to send a resume or SF-171 to the following address:

Patent and Trademark Office Office of Personnel Box 171 Washington, DC 20231 ATTN: D. Elliott (180)

For further information call David L. Lacy at (703) 308-4314. U.S. CITIZENSHIP IS REQUIRED FOR EMPLOYMENT.

(1) TUMOR/CELL BIOLOGIST. Background in evaluation of cancer markers, cancer immunology and/or cell metabolic pathways. Familiarity with molecular biology techniques and breast cancer biology highly desirable.

(2) BIOCHEMIST/IMMUNOLOGIST. Investigate protein-bound photoactivatable compounds in tumor targeting. Must be able to work in a multidisciplinary environment, including photobiology, and be capable of initiating independent programs. Salary and positions commensurate with experience; can be research fellow to assistant professor. Contact: T. Hasan, Ph.D., Wellman Laboratories of Photomedicine, Harvard Medical School, Massachusetts General Hospital, Boston, MA 02115.

WILDLIFE PARASITOLOGIST. An individual experienced with identification of wildlife parasites in a variety of species (primarily avian) is sought by the U.S. Fish and Wildlife Service. Duties will include identification of parasites submitted by pathologists as cases are necropsied, preparation of written reports of findings and occasional investigative work to determine the significance of certain parasites. Must be a U.S. citizen. Full performance level for this Federal position is GS-12 ($38,861 to $50,516). For information contact: Joan Degnentzard, National Wildlife Health Research Center, 6006 Schroeder Road, Madison, WI 53711.

POSITIONS OPEN

BIOLOGIST, Wofford College, tenure-track position, Fall 1993. Ph.D. and strong commitment to teaching expected. Primary area, animal physiology. Additional areas might include vertebrate zoology, ecology, histology, immunology, neurobiology, human anatomy and physiology, or endocrinology. Salary competitive. Rank according to experience. Send curriculum vitae, recommendation letters, and statement of interest to: Dr. George Shiflet, Biology, Wofford College, Spartanburg, SC 29303-3663. Minorities encouraged to apply.

BIOCHEMIST. Hamilton College is seeking a biochemist for a tenure-track position, funded in part by the Howard Hughes Medical Institute, starting in the fall of 1993. The rank and specialty are open, but preference will be given to a physical biochemist. Applicants should have a strong interest in teaching and research at the undergraduate level. Teaching responsibilities include two upper level courses in biochemistry and participation in an appropriate lower level course. Supervision of senior research is expected and start-up funds are available. Interested candidates should send current curriculum vitae and transcripts, a statement of research interests, and three letters of recommendation all to: Professor R. J. Kinzel, Chair, Department of Chemistry, Hamilton College, Clinton, NY 13323-1292. Hamilton College is an Affirmative Action/Equal Opportunity Employer, and women and minorities are encouraged to apply.

UCSF POSITIONS IN PRION RESEARCH

Molecular Biologist. At least three years of postdoctoral experience required. Produce and analyze transgenic mice expressing prion protein (PrP) genes. Requires isolation of cosmic clones, site directed mutagenesis, PCR and hybridization assays of transgenes. Salary: $35,000 to $49,000 per year. Electron microscopy technician: B.A./B.S. and two or more years experience of transmission EM with negative staining, immun EM, thin sections and image analysis. Salary $28,000 to $40,000 depending on experience. Cell culture technician: B.A./B.S. and two years of experience. Establish and maintain cell lines, metabolic radiolabelling, infection and cloning, immunofluorescence, immunoblotting. Salary: $28,000 to $35,000 per year. Postdoctoral fellows: Ph.D. in molecular biology with experience in protein expression, protein structure, or protein chemistry. Study PrP secondary and tertiary structure using expression systems, protein purification, crystallization, NMR, IR, spectroscopy and X-ray diffraction. Supported by NIH Training grant; postdoctoral candidates must be U.S. citizens or hold a U.S. permanent resident visa. All applicants send curriculum vitae and three letters of recommendation to: S. B. Prusiner, UCSF, San Francisco, CA 94143-0518. Equal Opportunity Employer, women and minorities are encouraged to apply.

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So with A.L.F. generating precision data like this, clinical researchers can rapidly determine the molecular basis for drug resistance and more effectively plan treatment with alternative drugs or combinations of drugs. And, of course, direct DNA sequencing with A.L.F. has plenty of other clinical applications in areas such as infectious diseases, cancer, genetic disorders and forensics.

Ask for more details and a reprint of the reference.

1. Dynamic changes in HIV-1 quasispecies from azidothymidine (AZT) treated patients. FASEB Journal 6 (1992), Wahlberg, J., Albert, J., Lundeberg, J., Cox, S., Wahren, B., Uhlen, M.
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