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AAAS MENTOR AWARD
Call for Nominations

This annual award honors individuals who, during their careers demonstrate(s) extraordinary leadership in efforts above and beyond their duties to increase the participation of women of all racial/ethnic groups; African American, American Indian, and Hispanic men; and people with disabilities in science and engineering fields and careers. Until the number and influence of such individuals increases within the faculty, efforts to expand and diversify research interests, to provide role models, and to reflect the diversity of the country within science and engineering education programs and departments will be severely limited.

A prize of $5000 and a commemorative plaque will be awarded to those who have mentored and guided to the completion of doctoral studies significant numbers of students of these underrepresented groups and/or to those who have affected the climate of a department, college, or institution in such a way as to significantly increase the ethnic diversity of students pursuing and completing doctoral studies.

Such commitment and extraordinary effort may be demonstrated by:
- the number and diversity of such students mentored
- assisting students to present and publish their work, to find financial aid, and to provide career guidance
- providing psychological support, encouragement, and essential strategies for life in the scholarly community
- continued interest in the individual's professional advancement.

Supporting evidence of these accomplishments submitted on behalf of a nominee, must contain:
- a letter of nomination which enumerates the ways in which the person reflects the purpose of this award
- curriculum vitae of nominee
- a list of such students mentored
- a minimum of 5 and maximum of 15 supporting letters from students and colleagues representative of the different spheres in which the candidate demonstrated effort, results, and commitment.

Last year's winners were:
- Anthony J. Andreoli, Professor of Biochemistry, California State University, Los Angeles, CA
- Lafayette Frederick, Professor and Chairman, Department of Botany, Howard University, Washington, DC

Nominations will be reviewed and award recommendations made by the AAAS Committee on Opportunities in Science. The award will be given at the AAAS Annual Meeting in Boston, February, 1993. Expenses associated with attending this ceremony will be borne by AAAS.

Materials should be sent by October 25, 1992 to: AAAS Mentor Award, c/o Yolanda S. George or Alana J. Wilson, Directorate for Education and Human Resources Programs, AAAS, 1333 H Street NW, Washington, DC 20005, (202) 326-6670, FAX (202) 371-9809.
SCIENCE PERSONNEL PLACEMENT

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**SCIENCE**  •  VOL. 257  •  25 SEPTEMBER 1992  •  1985

**POSITIONS OPEN**

**SUNY HEALTH SCIENCE CENTER AT ALBANY**

**FACULTY POSITION IN BIOCHEMISTRY AND MOLECULAR BIOLOGY**

We invite applications for a tenure-track position. While we expect to make the appointment at the ASSISTANT PROFESSOR level, candidates at higher levels also will be considered. Outstanding candidates in all areas of biochemistry and molecular biology are encouraged to apply. Applicants must have a Ph.D. or equivalent degree in biochemistry or related field, post-doctoral experience, demonstrated research productivity and a commitment to excellence in teaching medical and graduate students. Applicants must ensure that curriculum vitae (and summary of research plans) and have three letters of reference forwarded to: Dr. Harvey S. Penefsky, Chair, Search Committee, Department of Biochemistry and Molecular Biology, 750 East Adams Street, Syracuse, NY 13210. Review of applications will begin December 7, 1992 and continue until the position is filled.


**FACULTY POSITIONS IN PHACOLOGY—Rush Medical College, Department of Pharmacology is seeking applications for ASSISTANT PROFESSORS. The candidate should hold a Ph.D. and/or M.D. degree and have several years of postdoctoral experience. The applicant's research should be in areas of vascular or lung cell and molecular biology in which modern technologies are used. In designing a funded research program, the candidate will help the department fulfill its responsibilities in medical and graduate education. The candidate should submit curriculum vitae, a statement of research interests and accomplishments, a record of grant funds (if available), and a list of three references. Applications should be sent to: Dr. A. R. Malik, Professor and Chairman, c/o Barbara Mack, Department of Pharmacology, Rush Medical College, 1653 West Congress Parkway, Chicago, IL 60612.

Rush is an Equal Opportunity/Affirmative Action Employer.

**CELL AND MOLECULAR BIOLOGY GROUP**

**AT WEST VIRGINIA UNIVERSITY**

Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level, available 16 August 1992, which was made possible by the Howard Hughes Foundation. Ph.D. and minimum of two years of postdoctoral experience are required. We are interested in teacher-scholars studying contemporary problems in molecular biology. The successful applicant will be expected to participate effectively in teaching undergraduate and graduate courses and to plan and conduct a funded, independent research program. Please submit curriculum vitae, a brief description of current and future research interests, and the names and telephone numbers of three individuals who will be asked to write letters of evaluation to: Dr. Richard F. Sutter, P.O. Box 6057, Biology Department, West Virginia University, Morgantown, WV 26506. Applications must be received by December 4, 1992. WVU is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

**PLANT MOLECULAR BIOLOGY**

**Indiana University, Bloomington**

The Department of Biology seeks to fill a faculty position in the area of plant molecular biology. The appointment will be made at any level from ASSISTANT to FULL PROFESSOR. Candidates working on any aspect of plant molecular biology or genetics, including the application of these approaches to problems in developmental, cellular or evolutionary biology, are encouraged to apply. The successful candidate will be expected to conduct a vigorous, independent research program and contribute to teaching. All interested candidates should submit curriculum vitae and a statement of research interests, including future plans. Applicants at the junior level should also arrange for three letters of reference to be sent to: Jeff Palm, Chair, Plant Molecular Biology Search Committee, Department of Biology, Indiana University, Bloomington, IN 47405.

Applications received before December 1, 1992, will be assured of consideration.

Indiana University is an Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**ASSISTANT PROFESSORS**

**DEPARTMENT OF PHARMACOLOGY**

Our expanding department has six tenure-track positions available for individuals who are taking a molecular and/or cellular approach to modern pharmacological research problems. Successful candidates will receive new laboratory space and budgets in a setting that fosters their professional development. Our multidisciplinary graduate programs provide a large pool of graduate students who also will participate in medical student training. Emory University is located in a wooded, residential area on the outskirts of Atlanta, and has undergone rapid growth in molecular and cellular biomedical research programs. Applicants should send curriculum vitae, three representative reprints, a summary of current research and future plans, and names of three references to: Mrs. D. L. Bangle, Chairman, Department of Pharmacology, Emory University School of Medicine, Rollins Research Center, Atlanta, GA 30322. Emory University is an Equal Opportunity/Affirmative Action Employer.

**MOLECULAR AND CELL BIOLOGY**

**University of California, Berkeley**

The Department of Molecular and Cell Biology invites applications for the following tenure-track position, with appointment beginning approximately July 1, 1993. Candidates should have demonstrated excellence, originality, and creativity in research. Preference should be given to candidates whose research program would have a strong interest in undergraduate and graduate teaching. ASSISTANT PROFESSOR: Research emphasizing development and cell biology, and/or research on higher vertebrates, as approached through molecular, genetic, or embryological methods. Applications should include a cover letter, curriculum vitae, a bibliography, a statement of research objectives and teaching interests, three letters of recommendation, and reprints of three representative publications. The closing date for acceptance of applications is December 1, 1992. This is an announcement of a previously advertised position with a new, later closing date and an extended time for beginning the appointment. Applications should be sent to: Dr. Janis Crowley, Genetic/Development Search Committee, Department of Molecular and Cell Biology, Room 597 Life Sciences Addition, University of California, Berkeley, CA 94720.

The University of California is an Affirmative Action/Equal Opportunity Employer. We especially invite women and under-represented minorities to apply.

**MARINE ECOLOGIST**

USC Coastal Carolina College is seeking a VISITING ASSISTANT PROFESSOR in Marine Ecolology. Position (visiting assistant) begins in Fall 1993 and ending May 1994. The successful candidate will have expertise in wetlands and/or estuarine ecosystem processes and a desire to teach undergraduates. Responsibilities will include teaching and directing student research projects. The Marine Science Department maintains a high quality undergraduate educational program, highlighted by student independent research and involvement in faculty research projects. Candidates must have a Ph.D. in Marine Science or related field and teaching experience is preferred. The College is located along the South Carolina Grand Strand coast with close access to a variety of beach, estuarine and coastal ocean environments and is developing a field program/station at Wadmalaw Island. Each applicant should submit curriculum vitae, a statement of teaching and research experience, and the names and addresses of three references to: Human Resources and Affirmative Action Office, USC Coastal Carolina College, P.O. Box 1954, Conway, SC 29526. Review of applications will begin on October 15, 1992, and will continue until position is filled. USC Coastal Carolina College is an Equal Opportunity/Affirmative Action Employer.

Vanderbilt University Endocrinology Division seeks subspecialty board eligible/certified M.D. or M.D./Ph.D. Clinician/investigator for ASSISTANT/ASSOCIATE PROFESSOR tenure-track positions. Successful candidates will have record of research productivity and ability to establish/maintain independent research program. Molecular/cell biology of lipid/ mineral metabolism or neuroendocrine systems preferred but not required. Send curriculum vitae, research interest summary and three references to: David N. Orth, M.D., Director, Division of Endocrinology, Room AA4206 Medical Center, Nashville, TN 37232.
**Director of Scientific Studies**

Kabi Pharmacia Ophthalmics, an internationally respected member of the ophthalmics community, has an excellent opportunity for a bright, dynamic professional. In this highly visible position, you'll have a chance to use your imagination by being involved in global research and development of ophthalmic devices.

The Director of Scientific Studies is responsible for a broad spectrum of activities ranging from completion of pre-clinical studies required for IDE submission to product leadership. The successful candidate will have a PhD in biology or a related discipline with a minimum of five years industrial experience. He/she will have demonstrated a high level of creativity, and will have significant accomplishments in e.g., development of in-vitro test models and the study of biocompatibility of devices. A working knowledge of GLP would be useful as would some knowledge of the form and function of the eye. Excellent leadership and communication skills are essential.

We offer an attractive compensation/benefits package and a highly professional environment in Southern California (just east of Pasadena). If you're ready to pursue research with a company dedicated to it, please fax or send a resume, FAX (818) 301-8644, Manager of Human Resources, Kabi Pharmacia Ophthalmics, Inc. 605 E. Huntington Drive, Dept. S-DS, Monrovia, CA 91016. EOE M/F/D/V.

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**Marketing Manager**

Bio-Rad Laboratories is a multinational leader and innovator in the development and manufacture of high quality products – chemicals and instruments – for life science researchers and clinical diagnostic professionals.

The Clinical Diagnostics Group is looking for a Marketing Manager – DNA Diagnostics. We seek a person to identify and champion technologies and/or products that will lead to commercial successes. You will work with the entire Diagnostic Group as well as with our Life Science Group. An advanced degree in molecular biology coupled with marketing experience and an understanding of both life science technologies and the diagnostics market, combined with the energy to put it all together would be ideal.

We are looking for a truly excellent person to join our team. The task will be challenging, exciting and present real growth opportunities. If you feel that you are ready for this challenge, please send your resume, including salary history to: Bio-Rad Laboratories, Dept. 399, 4000 Alfred Nobel Dr., Hercules, CA 94547. Or FAX: Attn: Bob Hall, 510/724-5024. EOE M/F/D/V.

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**SCIENTISTS**

**CADUS PHARMACEUTICAL CORP,** a New York City based biopharmaceutical company is dedicated to drug discovery and development. The Company's scientists utilize a new generation of technological tools to identify novel therapeutic agents whose mode of action is aimed at specific signal transduction and transcriptional pathways. Such agents are being sought for the treatment of several major diseases.

- **Research Scientists**

  Needed to participate in the design, execution, interpretation, and reporting of pharmacologic and physiologic studies. These studies will support the development of low molecular weight drugs designed to influence intracellular signaling. The successful candidate will be challenged with broad responsibilities for developing appropriate in vivo and in vitro models to support drug discovery programs in inflammation, cardiovascular and pulmonary diseases. This position will involve extensive interactions with CADUS chemists and biologists in evaluating and studying lead compounds. Applicants should have a PhD in pharmacology, physiology, biology or a related field and 3-5 years of academic or industrial experience. Experience in small animal physiology and specific cell function assays are required. Excellent oral and written communication skills are essential.

- **Research Associates**

  With a BS or MS in Chemistry or Biology are needed to assist our team of synthetic chemists and molecular biologists. Excellent oral and written communication skills are required.

CADUS offers an excellent salary and benefits package, incentive stock participation and the opportunity to contribute to a new and exciting area of drug discovery. Please respond to: CADUS PHARMACEUTICAL CORPORATION, Ms. Suzanne Wakamoto, 180 Varick Street, 7th Floor, New York, NY 10014. We are an equal opportunity, affirmative action employer.

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**PROTEIN BIOCHEMIST - PhD**

Pharmacia P-L Biochemicals Inc., a leader in the research, production and marketing of molecular and cell biology products is presently seeking someone to join a multidisciplinary Process Development team responsible for developing, optimizing and validating processes and transferring technology to pilot/production scale. The successful candidate will develop and implement protein purification methods; evaluate processes, equipment and materials; and develop procedures and process validation protocols. Experience with modern chromatographic methods of protein purification and analysis is essential. Familiarity with molecular biology, fermentation and recombinant DNA-derived proteins is highly desirable. Candidates should have a PhD in biochemistry or related field with at least 2 years experience in purifying proteins.

We offer a competitive salary and comprehensive benefit package. For consideration, send CV/resume and salary requirements in confidence to: Manager, Human Resources, PHARMACIA P-L BIOCHEMICALS INC., 2202 N. Bartlett Ave, Milwaukee, WI 53202. Equal Opportunity Employer. M/F/D/V.
Public Announcement

Regarding New Research and Development Projects on the Solid Oxide Fuel Cell (SOFC), Polymer Electrolyte Fuel Cell (PEFC) and Dispersed-type Battery Energy Storage Technology

Announced by the New Energy and Industrial Technology Development Organization on September 25, 1992

In order to promote new energy technologies, and New Energy and Industrial Technology Development Organization (NEDO) would like to inform all interested companies and research organizations regarding the research and development projects described below.

Theme of the Research Project and Outline of the Research Work to be Entrusted

1. “Research and Development of Solid Oxide Fuel Cell”
   The objective of the project is to develop SOFC technologies for a future SOFC power generating system. The targets are to study the structure of a planar type SOFC module by enlarging the cell area and stacking and integrating cells, and to develop a module in the tens of kilowatts with the power density of 0.2 W/cm² (fuel utilization of 75%), which will be operated by simulated reformed-natural gas by FY 1997. In addition, a study of materials and basic technologies of the SOFC, which enables high efficiency and high reliability modules, and a study of SOFC power generating plant equipment will be conducted.

2. “Research and Development of Polymer Electrolyte Fuel Cell”
   The objectives of the project are to develop PEFC cell and stack technologies and to evaluate the feasibility of new stationary type and portable type power generating systems. The target is to develop a 1kW class module with the power density of 0.3W/cm² which will be operated by hydrogen and air by FY 1995 by conducting R&D on the following issues: materials, structure and fabrication processes for cells, water management, stacking and cooling technology and other issues for realizing a low-cost PEFC. The feasibility study should be performed through the conceptual design of total power generation systems based on the PEFC module developed in this project.

3. “Research and Development of Dispersed-type Battery Energy Storage Technology”
   The objective of the project is to develop “dispersed-type battery energy storage technology” that can be applied to load leveling apparatus for houses, electric vehicles, and so on, using an ambient temperature secondary lithium battery of 20 to 30kWh class. The development targets are 180kWh/kg and 500 cycles for the high energy density type, and 120kWh/kg and 3500 cycles for the long life type. For this purpose, the following research and development will be conducted: research of elements, research of fabrication technology, research and development of utilization technology such as chargers and energy indicators, and operation technology. A total system study on a dispersed-type battery energy storage system will also be conducted.

Procedures for Application

(1) Qualification Criteria
   All companies or research organizations who meet the following qualification criteria may submit an application to participate in the above projects:
   1. The applicant must have previous research and development experience in the field covered by or related to the project and possess the organizational structure, human resources and research facilities required to carry out the project work.
   2. The applicant must be in sound financial condition and have the ability to manage its finances and facilities as necessary to smoothly carry out the project work.
   3. The applicant must be able to comply with NEDO’s instructions, if such are necessary, to fully carry out the project work.
   4. The applicant must attend the explanatory meeting held by NEDO as set forth in item (2) below or be represented at the meeting by a responsible agent or a representative who is capable of accurately conveying the contents of the meeting in detail.

(2) Explanatory Meeting
   An explanatory meeting will be held on the dates shown below in order for NEDO to fully explain the details of each project’s research and development work to be entrusted and the application documents to be submitted. Japanese will be the only language used during the meetings.

Dates and Times:
1. Research and Development of Solid Oxide Fuel Cell: 13:30, October 8, 1992
2. Research and Development of Polymer Electrolyte Fuel Cell: 15:30, October 8, 1992
3. Research and Development of Dispersed-type Battery Energy Storage Technology: 10:00, October 7, 1992
   Place: NEDO’s Head Office, Sunshine 60 Building, 28th Floor, Room 28-11, 1-1, Higashi-Ikebukuro 3-chome, Toshima-ku, Tokyo 170

(3) Remarks
   The results including patents and know-how derived from the projects entrusted shall be exclusively owned by NEDO.

(4) Further Information
   For further information regarding the research and development work to be entrusted under the above projects, please contact NEDO by telefax as follows:
   New Energy and Industrial Technology Development Organization
   Contract Division, Accounting Department
   Sunshine 60 Building, 28th Floor, Room 28-13
   1-1, Higashi-Ikebukuro 3-chome, Toshima-ku, Tokyo 170
   Telefax: 03-5992-1184
THREE ASSISTANT PROFESSOR POSITIONS
DEPARTMENT OF MOLECULAR BIOLOGY
Princeton University
The Department of Molecular Biology at Princeton University invites applications for three assistant professorships in any one of the following areas:
1. Cellular and Developmental Aspects of the Immune System
2. Cell/Structural Biology: cell/cell interaction and signaling; cytoskeletal and chromosome dynamics; cell surface recognition/cell signaling
3. Neurobiology: molecular neurobiology employing genetics and/or cell biology techniques

Applicants should send curriculum vitae, a summary of research interest, names of at least three references to the attention of one of the search fields listed above and addressed to:
Department of Molecular Biology
Princeton University
Princeton, NJ 08544
Application deadline is December 1, 1992.

The University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR OF PHARMACOLOGY AND TOXICOLOGY—West Virginia University invites applications for a tenure-track position at the Assistant Professor level. Applicants should have a Ph.D. in toxicology, pharmacology, or related discipline and postdoctoral research experience. Research area of particular interest is toxicology/signal transduction, but other areas of toxicology will also be considered. Review of applications will commence November 15, 1992 and continue until the position is filled. Send curriculum vitae, statement of research interests, and names of at least three references to: Dr. M. J. Reazor, Department of Pharmacology and Toxicology, West Virginia University, P.O. Box 9223, Morgantown, WV 26506. WVU is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Biochemistry ASSISTANT PROFESSOR, The Texas Tech University (TTU) Department of Chemistry and Biochemistry invites applications for a full-time, tenure-track Assistant Professor position. A Ph.D. degree is required; postdoctoral experience is preferred. The successful candidate should have outstanding potential in teaching and research and establish a vigorous research program in an area of biochemistry or molecular biology that complements those of the existing Biochemistry faculty. Areas of current interest include gene expression, but are not restricted to, plant molecular biology of algae or cyanobacteria, protein structure-function aspects of rational drug design or in vivo studies of eukaryotic gene expression. The successful candidate will submit curriculum vitae and a description of proposed research and arrange for three letters of recommendation to be sent by November 1, 1992 to: Dr. Robert W. Shaw, Department of Chemistry and Biochemistry, Mail Stop 1061, Texas Tech University, Lubbock, TX 79409-1061. TTU is an Equal Employment Opportunity/Affirmative Action/ADA Employer.

NEUROBIOLOGIST
The Department of Anatomy and Neurobiology, College of Medicine, The University of Tennessee, Memphis is seeking applications to fill ASSISTANT or ASSOCIATE PROFESSOR tenure-track positions. Candidates must be pursuing independent research programs in neuroscience and must show strong evidence of research achievement. Candidates will participate in teaching anatomy, physiology and related courses and have a strong commitment to undergraduate education. Applications should be mailed to: Dr. Donald L. Reesor, Department of Anatomy and Neurobiology, UT Memphis, 855 Monroe Avenue, Memphis, TN 38163. Review of applications will continue until the position is filled. The University of Tennessee is an Equal Opportunity/Affirmative Action/TITLE IX/SECTION 504/ADA Employer.

JOHN W. PETERS, Editor
1993 PREDOCTORAL FELLOWSHIPS IN BIOLOGICAL SCIENCES

66 Fellowships will be awarded by the Howard Hughes Medical Institute for study toward a Ph.D. or Sc.D. degree in the biological sciences listed below. Awards, based on an international competition, focus on research directed to an understanding of basic biological processes and disease mechanisms. Fellowships may be held at any academic or research institution with appropriate degree programs.

Fellowship Terms
- Full-time study toward the Ph.D. or Sc.D.
  - Up to five years of support possible
  - $14,000 annual stipend
  - $12,700 annual cost-of-education allowance

Fields of Study
- Eligible fields:
  - biochemistry
  - biophysics
  - biostatistics
  - cell biology
  - developmental biology
  - epidemiology
  - genetics
  - immunology
  - mathematical biology
  - microbiology
  - molecular biology
  - neurosciences
  - pharmacology
  - physiology
  - structural biology
  - virology

Eligibility
- Beginning graduate study (prior study toward an M.P.H. or a medical degree does not rule out eligibility)
  - college seniors
  - first year graduate students
  - medical students and physicians (M.D., D.O., D.D.S., or D.V.M.) not past the first year of a Ph.D. or Sc.D. degree program
- Not in a funded M.D./Ph.D. program
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule
- Application deadline: November 6, 1992
- Awards announced: early April 1993
- Fellowships start: June 1993 - January 1994

For 1993 Program Announcements, Eligibility Guidelines, and Applications
Hughes Fellowship Program • The Fellowship Office
National Research Council • 2101 Constitution Avenue, N.W.
Washington, D.C. 20418 • United States of America
Telephone (202) 334-2872

The Howard Hughes Medical Institute welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
POSITIONS OPEN

UNIVERSITY OF FLORIDA
COLLEGE OF MEDICINE
DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

A tenure-track ASSISTANT PROFESSOR position is open in the College of Medicine, Department of Pharmacology and Therapeutics, with at least two years of postgraduate experience. The successful candidate will be expected to develop an independent research program in the area of pharmacology and contribute to graduate and medical education. Applications are encouraged from women and minorities.

ASSISTANT PROFESSOR OF CELL BIOLOGY

The Department of Cell Biology, University of New Mexico, is currently offering a two-year tenure-track appointment at the level of Assistant Professor to an investigator who is studying molecular mechanisms of replication, gene expression, or pathogenesis of human retroviruses. The position is to be held at the University of Mississippi Center for Advanced Study and Research in the Health Sciences. Applicants are encouraged from women and minorities.

EVOLUTIONARY PLANT ECOLOGIST

The Department of Biological Sciences at the University of Florida, Plant Ecology, Ecological Genetics and Conservation, is seeking a Postdoctoral Fellow to study the evolutionary ecology of plant species in the context of the Global Change Program. This position is available immediately and the duration of the appointment is two years. The position is expected to be renewed annually, depending on the availability of funding. Applicants must have a Ph.D. in ecology, evolutionary biology, or a related field and a strong research record. The University of Florida is an Equal Opportunity/Affirmative Action Employer.

POSSITIONS OPEN

Molecular Biologist

A tenure-track ASSISTANT PROFESSOR position in the Department of Cell Biology is available. The position is expected to begin in August 1993. The candidate should have a strong background in molecular biology and cell biology, and a strong research record, with an emphasis on the regulation of gene expression, DNA repair, and DNA replication. The successful candidate will be expected to establish an independent research program and contribute to the training of graduate students. Applications from women and minorities are especially encouraged.

UNIVERSITY OF TEXAS AT ARLINGTON

The Department of Biology invites applications for a two-year tenure-track position at the ASSISTANT PROFESSOR level. The University of Texas at Arlington has a student body of 21,000, including 2,500 foreign students. The department is committed to excellence in teaching and research and to diversity in its faculty. The successful candidate will be expected to develop and sustain an independent research program and to contribute to the training of graduate students. Applications from women and minorities are especially encouraged.

ASSISTANT PROFESSOR/ASSOCIATE PROFESSOR

The Department of Biology at the University of California, Los Angeles, is seeking candidates for a tenure-track position at the ASSISTANT PROFESSOR level. The successful candidate will be expected to establish a self-sufficient research program and contribute to the training of graduate students. The University of California, Los Angeles, is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS IN CELL, MOLECULAR AND STRUCTURAL BIOLOGY

Applications are invited for two tenure-track positions in the Department of Cell Biology. The successful candidate will be expected to develop an independent research program in the area of cell biology and contribute to the training of graduate students. Applications from women and minorities are especially encouraged.

BIOCHEMISTRY FACULTY POSITION

LOUISIANA STATE UNIVERSITY

BIOLOGICAL SCIENCES

The Department of Biology invites applications for a tenure-track position at the ASSISTANT, ASSOCIATE, or FULL PROFESSOR level. The successful candidate will be expected to develop a competitive research program and to contribute to the training of graduate students. Applications from women and minorities are especially encouraged.

DIRECTOR OF ELECTRON MICROSCOPE SUITE

Meharry Medical College seeks a director for its college-wide EM facility. Experience in TEM and SEM techniques required. Opportunity for collaborative work available. Salary is negotiable. Send resume and addresses of three references to: Robert Roskoski, Jr., Chair, Department of Anatomy and Cell Biology, Meharry Medical College, 1005 D.B. Todd Boulevard, Nashville, TN 37208. Meharry is an Equal Opportunity/Affirmative Action Employer.

REGULATORY POSITION

Terra International, Inc., a major distributor and formulator of agricultural chemicals, is seeking a MANAGER for its Label Development Department. An eight- to ten-year work history in regulatory submissions, and a proven track record with the Registration Division at EPA and Cal-EPA are required. A degree in agriculture or related field is a plus.

The position reports to the General Manager, River- side Product Business Unit and manages the regulatory department. The position is responsible for FIFRA issues, but must stay abreast of OSHA, DOT and other pertinent regulations affecting private labeling. The position is full-time and requires ability to coordinate scientifically sound regulatory packages to obtain new labels, amendments, and to defend current labels undergoing reregistration. Special requirements are to work with government agencies, and to keep current with FIFRA issues. The position requires an MBA with a background in Chemistry, a strong background in biology, and five years' experience as a Manager with a Chemical Company.

Applications should be sent to: Box WSI, Suite 215, 1100 Jorve Boulevard, Oak Brook, IL 60521.

SCIENCE • VOL. 257 • 25 SEPTEMBER 1992
DEPARTMENT OF PHARMACOLOGICAL AND PHYSIOLOGICAL SCIENCE
Saint Louis University Medical Center

Applications are invited for faculty positions in the Department of Pharmacological and Physiological Science at Saint Louis University Medical Center. Positions are tenure track appointments at the Assistant or Associate Professor level. We offer an environment rich in senior level scientific experience, start up funds, laboratory space and a record of highly successful and continuing extramural research funding. Preference will be given, but not restricted, to individuals with demonstrated experience in the application of molecular biology to research in the nervous, cardiovascular and endocrine systems. Interested persons should send a curriculum vitae, three letters of reference and a description of research interests and objectives to:

Dr. Thomas C. Westfall
Professor and William Beaumont Chair
Department of Pharmacological and Physiological Science
Saint Louis University Medical Center
1402 South Grand Boulevard
St. Louis, MO 63104

Saint Louis University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

PAUL SCHERRER INSTITUT

The Paul Scherrer Institut in Würenlingen/Villigen, Switzerland, is a Swiss Federal Laboratory for multidisciplinary basic and applied research.

For the radioecology group in the department of radiation hygiene we seek a qualified

Radioecologist or Environmental Toxicologist

Qualification includes a Ph.D. in ecology, radioecology, environmental toxicology or related fields. A good understanding of ecological principles as they relate to contaminant transport is essential. The successful candidate is expected to be able to design, conduct and analyze relevant field/laboratory experiments on the transport of radionuclides in the environment. Strong candidates will have knowledge in experimental design, statistical analysis, environmental risk assessment and contaminant transport modeling. Postdoctoral, junior and senior level applicants will be considered. The opening is for an initial period of three years.

For more information please contact Dr. Roger Andres, Tel. 0041-56/99 23 47.

A curriculum, reprints of three relevant publications, and the names of three references should be sent to

PAUL SCHERRER INSTITUT, Würenlingen & Villigen, Personnel Division, ref. code 2302, 5232 Villigen PSI/Switzerland

Microbiology Research Assistant

The field of pharmaceuticals and health care is more rewarding than ever as new products create a healthier world population. As one of the leaders in this dynamic industry, Pfizer Inc, a Fortune 100 company, is committed to continuing its remarkable growth.

In bringing science to life, our international research-based company uses advanced techniques to generate new products, new areas of revenue and career opportunities that self-directed, talented people will find stimulating and rewarding.

The primary R&D facility of Pfizer Inc is located in a southeastern Connecticut shore community, giving easy access to the well known academic and cultural centers of the Northeast, and offers the attractions of a New England lifestyle.

One of our drug discovery teams is currently seeking a Research Assistant with an MS or BS to perform experiments in bacterial pathogenesis which may lead to the identification of novel antibacterial agents. A strong background in either microbiology or molecular genetics and cell biology is essential since the research will require a broad range of technical skills from these areas. Knowledge of the methods of tissue culture and protein and DNA analysis, including ELISAs, Westerns, radiolabeling, immunoprecipitation, electroporation and Southern's, will be important. Some additional experience in cellular immunology would be desirable.

We offer competitive salaries and a full range of benefits including medical and dental insurance, paid holidays and vacations, educational assistance, savings and investment plans, pension plan, relocation assistance and more.

To learn how you can be part of Pfizer's future, send your resume to: Mr. Kym J. Goddu, Personnel Associate, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.

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Vivigen Laboratories is seeking an MD or PhD candidate, ABMG certified or board eligible, to direct the Biochemical Genetics Laboratory. The candidate should have experience in human biochemical genetics with emphasis on prenatal screening and diagnosis as well as significant experience in managing a technical production staff.

Vivigen's high quality, state-of-the-art laboratories are located in the city of Santa Fe in Northern New Mexico which offers clear skies, no congestion, spectacular sunsets and a wide variety of social and outdoor activities.

Please send CV to:
David H. Lockwood, PhD.
Vivigen, Inc.
2000 Vivigen Way
Santa Fe, NM 87505

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Software Engineers

We are Bio-Rad Laboratories, a world leader in life science research products, clinical diagnostics and analytical instruments and rated as one of the fastest growing companies in Northern California. We are seeking talented individuals to fill key positions in our growing Genetic Systems Division.

Use your 2+ years experience programming in “C” or “C++” on the Apple Macintosh and knowledge of instrument and machine control to create scientific instruments. Preference will be given to candidates with experience in user interface design, image display and manipulation and scientific programming.

BS/SCS/EE or equivalent, excellent communication skills and the ability to thoroughly document and write code are required.

For consideration, please send your resume to: Bio-Rad Laboratories, 2000 Alfred Nobel Dr., Dept. 395, Hercules, CA 94547. EOE M/F/D/V.

BIO-RAD
Bio-Rad Laboratories

Program in Cellular Biochemistry & Biophysics
Memorial Sloan-Kettering Cancer Center

Tenure track appointments at the Assistant Member level are available in the Cellular Biochemistry & Biophysics Program in the application of multidimensional NMR spectroscopy to the analysis of macromolecular structure, dynamics and interactions in solution.

Candidates should have a successful record of research achievements and the ability to develop an independent research program. Experience in the application of multi-dimensional NMR methods to the analysis of macromolecular structure is required. The NMR core facility due for completion in the second quarter of 1993 will house five, three channel Varian high resolution NMR spectrometers, including three 600 MHz instruments. The computational resources will include Silicon Graphics and SUN workstations and servers. The institution has allocated equipment and operating budgets to maintain the NMR and computing facilities at state-of-the-art level. Attractive start-up packages are available to establish and maintain the successful candidate’s laboratory.

Interested applicants should forward their curriculum vitae, bibliography and the names of three references to:

Dr. Dinshaw J. Patel
Program in Cellular Biochemistry & Biophysics
Memorial Sloan-Kettering Cancer Center
Box 557
1275 York Avenue
New York, NY 10021

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Biopharmaceutical Leader

Somatogen, a biopharmaceutical company currently engaged in the development and manufacture of recombinant human hemoglobin, has exciting opportunities available in our state-of-the-art pharmaceutical production facility. Successful candidates will be self-motivated individuals with a desire to be part of a team involved in cutting edge technology.

Scientist I (Immunochemist). Responsibilities involve immunoassay development including RIA, ELISA and western blot, development of novel immunological reagents, and epitope mapping. Requires a Ph.D. with experience in mono/polyclonal antibody production and characterization and immunoassay development. Please indicate Dept. #346.

Sr. Research Associate. Responsibilities include amino acid analysis, protein purification and sequencing, peptide mapping and HPLC. Requires a B.S./M.S. with 4 years laboratory experience with a strong background in biochemistry with emphasis on purification and characterization. Please indicate Dept. #378.

A competitive salary and benefits package complements these offers. Interested candidates may submit their resume and cover letter indicating the position desired and department number to:

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EOE M/F/H/V
POSTDOCTORAL POSITION
CARDIAC PHYSIOLOGY
UNIVERSITY OF MARYLAND
SCHOOL OF MEDICINE

A postdoctoral position is available immediately (December 1, 1992) for research in electrophysiology and excitation-contraction coupling of cardiac muscle. The research will involve the use of patch clamp techniques (whole-cell and single channel) and fluorescent ion-indicators, including imaging, and flash photolysis of caged nucleotides. Some experience in single-molecule techniques is desirable. Applicants should have a Ph.D. or M.D. and experience in electrophysiology. Interested individuals should send curriculum vitae and names of three references to: Dr. Richard I. Langer, Department of Physiology, University of Maryland at Baltimore, 660 West Redwood Street, Room 590, Howard Hall, Baltimore, MD 21201. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE position is available to examine the mechanisms of platelet uptake and transport to hosts of southern pine seedlings, and the modifying effects associated with long-term root hypoxia. A Ph.D. in plant physiology and background in microautography, NMR or radioisotope uptake work are desirable. Send letter describing research experience, curriculum vitae and names and addresses of three referees to: Dr. Mary A. Topa, Boyce Thompson Institute for Plant Research, Tower Road, Ithaca, NY 14853-1801. Awaiting Action/Affirmative Action Employer.

POSTDOCTORAL POSITIONS—MIT/Harvard Postdoctoral positions in the areas of pharmacutical stability and stabilization. Backgrounds in any of the following areas are desirable: biochemistry, biopysics, and chemical engineering. Send resumes to: Dr. Thomas A. Caskey, Germshausen Professor of Chemical and Biomedical Engineering, Department of Chemical Engineering, Massachusetts Institute of Technology, 77 Mass Ave., Room 4-258, Cambridge, MA 02139 or Dr. Alexander Kilbourn, Professor of Chemistry, Department of Chemistry, Massachusetts Institute of Technology, 16-209, Cambridge, MA 02139. Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE position is available to examine the mechanisms of platelet uptake and transport to hosts of southern pine seedlings, and the modifying effects associated with long-term root hypoxia. A Ph.D. in plant physiology and background in microautography, NMR or radioisotope uptake work are desirable. Send letter describing research experience, curriculum vitae and names and addresses of three referees to: Dr. Mary A. Topa, Boyce Thompson Institute for Plant Research, Tower Road, Ithaca, NY 14853-1801. Awaiting Action/Affirmative Action Employer.

Molecular biologist, USDA, ARS, Southern Regional Research Center, Environmental Technology Research, New Orleans, Louisiana is seeking a Molecular Biologist, GS-11/12 (salary $32,423 to $58,861). Two year POSTDOCTORAL POSITION to develop a novel test to determine the level of a fungal acid phosphatase gene. Candidate must have knowledge of (1) molecular biology and skill in the use of recombinant DNA techniques, and (2) transformation of filamentous fungi and gene replacement. Ph.D. is required. For information on the research program and/or position contact: Dr. Edward Mullaney at 504-286-4364. For information on application procedures/forms, contact: Dawn Engstrom at 301-344-3377. Applications in response to this advertisement should be made by September 30. The position is filled. Mailing address: USDA, ARS, SRRC, ATTN: E. Mullaney, P.O. Box 19687, New Orleans, LA 70179. An Awaiting Action/Affirmative Action Employer.

POSTDOCTORAL POSITION available in Fall 1992 at Duke University Medical Center, Section of Genetics to study signal transduction, proteolysis, function and action of the immunosuppressants CsA, FK506, and rapamycin (Science, 253:905-909, 1991; The New Biologist 1:13, 1992). Experience with molecular biology, yeast genetics, immunology, or transgenic mice helpful. Ph.D. or M.D. required. Send letter of application, curriculum vitae, and three letters of recommendation forward to: Dr. Joseph Heitman, M.D., Ph.D., Section of Genetics and Department of Pharmacology, Box 9840, Duke University Medical Center, Durham, NC 27710 USA.

POSTDOCTORAL ASSOCIATE position is available to examine the mechanisms of platelet uptake and transport to hosts of southern pine seedlings, and the modifying effects associated with long-term root hypoxia. A Ph.D. in plant physiology and background in microautography, NMR or radioisotope uptake work are desirable. Send letter describing research experience, curriculum vitae and names and addresses of three referees to: Dr. Mary A. Topa, Boyce Thompson Institute for Plant Research, Tower Road, Ithaca, NY 14853-1801. Awaiting Action/Affirmative Action Employer.

Two POSTDOCTORAL POSITIONS are available to: (1) utilize transfection system to study the cell biology and mechanism of action of recombinant IgG antibody, and (2) study the role of T cell subsets (especially CD8+ T cells) in immunity and pathogenesis of Trypanosoma cruzi infection. Competitive background in biological immunology required. Send curriculum vitae, brief research summary and the names, addresses and phone numbers of three references to: Dr. Koichi Kato, Department of Menza-Wilson, Department of Zoology, University of Georgia, Athens, GA 30602. An Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for individual to work in vascular biology laboratory on smooth muscle cell biology. Projects will focus on the action of antagonists on cell replication and cell migration. Experience in protein biochemistry, receptor interactions and molecular biology are desirable. Send curriculum vitae and names of three referees to: Dr. Michael Reedy, Department of Pathology SJ-60, University of Washington, Seattle, WA 98195. Telephone: 206-685-1884.

POSTDOCTORAL POSITION available immediately for Ph.D. or M.D. to study lectin cell adhesion molecules and their interactions involved in angiogenesis. Candidates should have training in cell or molecular biology or biochemistry. Send curriculum vitae, reprints, and names of three references to: Joyce Bischoff, Surgical Research Laboratory, Children's Hospital, Harvard Medical School, 300 Longwood Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION available in molecular neurodegenerative diseases, including Alzheimer's disease, in established multidisciplinary laboratory. Qualifications include a Ph.D. or M.D., and a strong background in biochemistry and molecular biology to explore the molecular basis of these diseases. Substantial knowledge of (1) molecular biology and (2) references to: Carol A. Miller, Department of Pathology, USC School of Medicine, 1111 Zonal Ave, Los Angeles, CA 90033. FAX: 213-942-1808.

POSTDOCTORAL POSITION available for investigating molecular/biochemical and cellular aspects of gap junction structure/function. Applicants can choose to study gap junction roles in either cellular differentiation, carcinogenesis, or in normal development. The successful candidate will include transfection of cells with various gap junction genes and characterizing the underlying mechanisms and function. Candidates must have prior experience in molecular biology techniques and/or protein biochemistry. Submit curriculum vitae and names of three or four references to: Dr. James E. Trosko, Department of Pediatrics/Human Development Michigan State University East Lansing, MI 48824 FAX: 517-353-8464

POSTDOCTORAL RESEARCH FELLOW available January 1, 1993 to investigate the molecular basis of long-chain fatty acid transport across biological membranes. This work involves the use of Escherichia coli as a model system as many of the components that participate in this process have been defined at the protein and genetic levels. A Ph.D. (or equivalent) is required and experience in recombinant DNA techniques and protein chemistry is preferred. Interested individuals should send curriculum vitae and at least two letters of recommendation to: Dr. Paul N. Black, Department of Biochemistry, University of Tennessee, College of Medicine, Suite G01 Molecular Sciences Building, Memphis, TN 38163.

RESEARCH ASSOCIATE or SENIOR POSTDOCTORAL FELLOW with Ph.D. in Biochemistry, Microbiology of Pharmacology, experience in Molecular Biological Techniques, interest in the molecular actions of chemotherapeutic agents and mechanisms of drug resistance, required for project to identify genes responsible for resistance to platinum antigens or agents. Please refer all applications to: Dr. Henry Sorkin, M.D., Ph.D., Professor and Chairman, Department of Pathology & Laboratory Medicine, TEMPLE UNIVERSITY SCHOOL OF MEDICINE, 3400 North Broad Street, Room 312-OPD, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer, M/F/D/V.


Inhalation Scientist

3M, a Fortune 50 Company, is seeking a qualified scientist to supervise the operation of an inhalation laboratory for the Pharmaceuticals Division.

3M Pharmaceuticals is recognized as a global leader in aerosol drug delivery and is committed to expanding this business. The new lab will function in both a research and development capacity as well as conducting GLP studies to support preclinical toxicology of new drugs. This position requires an in-depth working knowledge of applied inhalation toxicology. An advanced degree is not necessarily a prerequisite. Demonstration of initiative, creativity, hands-on inhalation experience, and excellent team participation skills are desirable.

3M offers an excellent salary and benefit package, and is located in the progressive Twin Cities metropolitan area with easy access to beautiful outdoor recreation activities.

No agency responses or telephone inquiries, please.

To be considered for this position, please submit your resume to:
NAS Reply Service
Dept. 9MP 22
One Appletree Square
Minneapolis, MN 55425

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To qualify, you must have a Masters degree in one of the specialties of biological sciences. A knowledge of science curriculum in grades 6-14 is preferred. A minimum of 2 years of relevant background, preferably teaching at the upper middle or secondary grade level, is necessary. Familiarity with microcomputers and computer software is highly desirable, as is education or experience in measurement or statistics. And, our candidate will also possess well-developed skills in communication, analytical and abstract reasoning, interpersonal relationships, and organizational ability.

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**POSTDOCTORAL RESEARCH OPPORTUNITIES:** Available Now. Join a successful research program pursuing the mechanisms of CAR T CELL-MEDIATED GENE EXPRESSION AND CELL GROWTH CONTROL. Transgenic technologies and in vitro approaches are currently employed. This position requires a strong background in molecular biology, biochemistry, and/or developmental biology, and a firm commitment to research. Send curriculum vitae and names of three references to: Dr. A. Tall, Division of Molecular Medicine, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

**BIOCHEMIST:** Full-time, tenure-track position available beginning Fall 1993. Ph.D. in biochemistry or related field preferred. Successful candidate is expected to teach courses in introductory chemistry and biochemistry. Instructional excellence is high priority and research is strongly encouraged. With an enrollment of 3600 students, the College of Letters, Science, and the arts, this is a full-time, nine-month position. Applications reviewed beginning December 1, 1992. Send résumé and arrange for at least three letters of recommendation to be sent to: Dr. Eugene M. Kramer, Department of Physical Sciences, Shepherd College, Shepherdstown, WV 25443. Affirmative Action/Employment Opportunity Employer.

**RESEARCH ASSOCIATE:** An NIH grant, to study basic cellular and molecular mechanisms involved in invertebrate host-parasite relationships. Postdoctoral studies include the use of molecular, pharmacological and biochemical techniques (e.g., receptor binding, mRNA measurement, in situ hybridization, and autoradiography) in GABA receptors. Previous experience in one or more of these techniques is preferred. Send curriculum vitae and three letters of reference to: Dr. I. K. Ho, Department of Pharmacology and Toxicology, University of Mississippi Medical Center, 2500 North State Street, Jackson, MS 39216-4505. The University of Mississippi Medical Center is an Equal Opportunity/Employer, M/F/D/V.

**RESEARCH ASSOCIATE:** with an M.D. or Ph.D. degree in Histology, or related field, at least five years of experience in histology, pathology, or related research. To carry out studies involving pathological lesions produced by different industrial chemicals, (insecticides, organophosphorus compounds) on various body tissues with more emphasis on the central and peripheral nervous systems. Publication record evidencing ability to design and conduct research. Project involves animal treatment, tissue sampling and processing, “frozen or fixed” sectioning, staining by regular, special, and immunostaining, and evaluation for histopathological changes in different tissues. Salary $23,250, 40 hours, 8:30 a.m. to 5:00 p.m. Apply: Employment Security Commission, 516 North Magoon Street, Durham, NC 27701 or your nearest Job Service Office. Refer to Job order #3020113. Job code 09227-1010. Applications must include Social Security Number and state basis for permanent work authorization in the U.S.

**ASSOCIATE RESEARCH SCIENTIST:** Position available immediately to conduct research on the molecular mechanisms of atherogenesis. Applicant should have experience in in vivo gene transfer, alternative splicing, transgenesis or site-directed mutagenesis. Send curriculum vitae and references to: Dr. A. Tall, Division of Molecular Medicine, Department of Medicine, Columbia University, 630 West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

**BIOCHEMIST:** Full-time, tenure-track position available beginning Fall 1993. Ph.D. in biochemistry or related field preferred. Successful candidate is expected to teach courses in introductory chemistry and biochemistry. Instructional excellence is high priority and research is strongly encouraged. With an enrollment of 3600 students, the College of Letters, Science, and the arts, this is a full-time, nine-month position. Applications reviewed beginning December 1, 1992. Send résumé and arrange for at least three letters of recommendation to be sent to: Dr. Eugene M. Kramer, Department of Physical Sciences, Shepherd College, Shepherdstown, WV 25443. Affirmative Action/Employment Opportunity Employer.

**CHEMIST/BIOCHEMIST:** Kemin Industries, Inc. a leading manufacturer of animal feed ingredients, seeks a person with significant skills in biochemistry and molecular genetics. Applicants should have a Ph.D. in biochemical sciences including Ecology, Wildlife Biology, or Tropical Forestry, to provide leadership and coordination of national programs in biodiversity and tropical research. Formulation, quality control, and product development activities will require laboratory and computer knowledge. In addition, the position requires languages, policy research objectives and budgets. Reviews and coordinates research programs of eight regional Environmental Research Managers. Salary $15,000 to $20,000 per year. Please forward your résumé to: Dr. C. E. Nelson, Vice President, Planning and Development, P.O. Box 70, Des Moines, IA 50301.

**MARINE ECOLOGIST:** to supervise a staff of five to seven people, made up of ecologists, engineers, and technicians, responsible for evaluating the effects of development on the health and productivity of Texas Estuaries and Coastal Wetlands. Ph.D. in studies and reviews studies having to do with determining the stability (health) of estuaries. This person represents the Department on new water related issues and there is a strong likelihood that their work will be of benefit to coastal fish and wildlife. Salary not to exceed $40,000 per year. Position is in Austin, Texas. Contact 512-389-8964 for additional information. Reference Position Vacancy Announcement #1, Item #1. Position closes October 13, 1992. Equal Opportunity Employer.

**TWO RESEARCH TECHNICIAN positions available Fall 1992 in newly established laboratory at Duke University Medical Center. This laboratory studies signal transduction and immunosuppressive drug action in yeast. B.A. or B.S. degree required, prior experience helpful but not essential. Apply to: Dr. Joseph Heitman, Laboratory of Genetics, CE-2544, Duke University Medical Center, Box 322 CARL Building, DUMC, Durham, NC 27710. Telephone: 919-681-8889.

**PHARMACOLOGIST/TOXICOLOGIST:**

**THE WEINBERG CONSULTING GROUP Inc.,** a leading biomedical and regulatory affairs consulting firm, is seeking mid-level biomedical scientists for its drug development and medical device practices. We are searching for proven individuals with strong technical, managerial, and research skills who have an interest in solving challenging problems.

**INTERESTED individuals should possess the following:**

- Ability to critically analyze data and published literature
- Ability to evaluate and prepare regulatory submissions
- Experience with pharmaceutical and/or medical device development and regulation
- Minimum of four years of industry, regulatory, or consulting experience
- Advanced degree in pharmacology, toxicology, biology, physiology, or related field
- Excellent verbal and written skills

We offer an exciting, challenging atmosphere with excellent benefits. Please send a resume and salary history to

Jonathan Crawford
WEINBERG CONSULTING GROUP Inc.
1220 Nineteenth Street, N.W., Suite 300
Washington, DC 20036-2400

**BIODIVERSITY AND TROPICAL FORESTRY STAFF SPECIALIST (salary $65,243 to $83,502).** USDA Forest Service, Environment Research, Washington, DC, seeks Ph.D. in Biological Sciences including Ecology, Wildlife Biology, or Tropical Forestry, to provide leadership and coordination of national programs in biodiversity and tropical research. Formulation, quality control, and product development activities will require laboratory and computer knowledge. In addition, the position requires languages, policy research objectives and budgets. Reviews and coordinates research programs of eight regional Environmental Research Managers. Salary $15,000 to $20,000 per year. Please forward your résumé to: Dr. C. E. Nelson, Vice President, Planning and Development, P.O. Box 70, Des Moines, IA 50301.
SKIN BIOLOGY

We are looking for candidates who will conduct innovative research identifying novel therapeutic approaches to hyperproliferative and inflammatory diseases of the skin. Expertise in the structure and function of the skin is essential. Candidates will be expected to identify cutaneous markets of disease and to develop animal and tissue culture models for evaluating the efficacy and toxicity of new drugs. A working knowledge of molecular biology and pharmacology is desirable. We are looking for candidates with established records of independent research on the skin as well as for candidates with a Ph.D. and 2-3 years of relevant postdoctoral experience. The level of the positions can be negotiated commensurate with training and experience.

NEUROPHYSIOLOGY

You will work with the visual sciences group to identify and develop novel therapeutics for glaucoma, optic nerve and the retina. We are looking for someone trained in visual neurophysiology. The candidate is expected to develop animal models that involve quantifying the effect of drugs in the eye using ERG and PERG. A Ph.D. and relevant postdoctoral training is required for the position. You will also be expected to collaborate with other vision scientists trained in similar or related areas such as cellular physiology and electrophysiology. A working knowledge of the pharmacology of neuroprotection and cell death desirable. The level of the position can be negotiated based on training and experience.

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LEE KUAN YEW POSTDOCTORAL FELLOWSHIP

Applications are invited from candidates with excellent academic records and research potential, and who had obtained their PhD degrees in the last few years, for the Lee Kuan Yew Postdoctoral Fellowship. The Fellowship will be tenable for 3 years in the first instance, with possible extension for 2 further years. It will be held concurrently with the candidate's appointment as a research staff member in one of the following Faculties/Institutes:

- Faculty of Engineering
- Faculty of Medicine
- Faculty of Science
- Institute of Systems Science
- Institute of Molecular and Cell Biology
- Institute of Microelectronics

Under the Fellowship, a tax-free stipend of US$1,500 per month will be provided. This will be in addition to the following terms of appointment normally provided to a research staff member:

- Gross annual emoluments range from S$50,390 to S$64,200. (The commencing salary will depend on the appointee's qualifications and experience.)
- Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S$1,000 or S$2,000, subsidised housing at nominal rentals, education allowance for up to three children subject to a maximum of S$16,425 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

All academic staff have access to the following computer and telecommunication resources: an individual microcomputer (an IBM AT-compatible or Apple Macintosh); an IBM mainframe computer with 16 MIPS of computing power; an NEC SX supercomputer with 650 MFLOPS of computing power; departmental laser printers; a wide spectrum of mainframe and microcomputer software; voice-mail. A campus-wide network, which is based on the high speed optical fibre based FDDI technology, links up all the academic staff and student microcomputers, UNIX workstations and provides access to the mainframe computer, the supercomputer, UNIX hosts, the on-line library catalogue, CD-ROM databases, Teleview, Internet and BITNET. Application forms and further information on terms and conditions of service may be obtained from:

The Director
Personnel Department
National University of Singapore
10 Kent Ridge Crescent
Singapore 0511

Enquiries may also be sent through BITNET to: PERWPH @ NUS3090, or through Telefax: (65) 7783948
Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Developmental Neurobiology**  
P.G. Nelson, MD, PhD

Neurotransmitter phenotypes in the developing central nervous system are being studied using cell biological, biochemical, histological and molecular biological techniques. Candidates should have previous experience with these techniques and with transgene technology and developmental neurobiology as well. At least three years of postdoctoral experience is required. Laboratory of Developmental Neurobiology (OE-20), NICHD, Building 36, Room 2A21.

**Molecular Biology**  
Henry Levin, PhD

A new laboratory has been established to study the process of retrotansposition in the fission yeast Schizosaccharomyces pombe. Genetics, molecular biology and biochemistry will be used to identify interactions between the yeast cell and the retrovirus-like element TFi (Transposon of fission yeast 1), a retrotransposon that encodes functional protease, reverse transcriptase, and integrase proteins. Laboratory of Molecular Genetics (OE-20), NICHD, Building 6B, Room 413.

**Molecular and Cell Biology of Muscle**  
Robert Horowits, PhD

Large muscle proteins are being studied in order to determine their role in myofibrillar mechanics and assembly. Candidates are sought to participate in projects focusing on the molecular biology and cellular organization of the myofibrillar proteins titin and nebulin. A background in molecular or cell biology is preferred. Laboratory of Physical Biology (OE-20), NIAMS, Building 6, Room 114.

**Molecular Neurobiology**  
J.S. Hong, PhD

The regulation of neuropeptides and neurotransmitters in neural systems is being studied at the molecular level and the molecular mechanisms regulating the expression of genes encoding opioid peptides and catecholamine synthesizing enzymes are being elucidated. Candidates should have strong experience in neuropharmacology, neurochemistry or molecular biology and less than three years of postdoctoral experience. Laboratory of Molecular and Integrative Neurosciences (OE-20), NIEHS, P.O. Box 12233, Building 17, Room 1720, Research Triangle Park, NC 27709.

**Protein Biochemistry**  
Kenneth B. Tomer, PhD

The reaction of proteins with exogenous substances is analyzed and the protein adducts are being isolated and purified. Candidates should have a broad background in general biochemical techniques and in the use of mass spectrometry for the determination of biomolecules as well as less than five years of postdoctoral experience. Laboratory of Molecular Biophysics (OE-20), NIEHS, P.O. Box 12233, Building 6, Room 603, Research Triangle Park, NC 27709.

**Tumor Cell Biology**  
Frank Michaels, PhD

The etiopathogenesis of non-Hodgkins B cell lymphoma arising in the context of HIV-1 seropositivity is currently being studied. Experience in tissue culture, cytokine assays and B cell activation parameters is required. Applicants must be US citizens/permanent residents with less than five years of postdoctoral experience. Laboratory of Tumor Cell Biology (OE-20), NICI, Building 37, Room 6D27.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,1". When connected to NIH, type in ",xt100" at the connect message, "F5E" at initial, and "AJL1" at account.

Those interested in receiving information on other postdoctoral opportunities in NIH research laboratories, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
POSITIONS OPEN

AFFILIATE ASSISTANT SCIENTISTS

Research on biochemistry and molecular genetics of bombesin-like peptides and receptors, as well as teaching responsibilities for methods in molecular biology. Requires: M.D. or Ph.D. (Biochemistry), three years fellowship in biochemistry and three years of postdoctoral experience in chondocalcin/bombesinlike peptides and their receptors. At least six years of experience in biochemistry and molecular biology research with emphasis on mammalian gene regulation in breast and lung development and neoplasia; skills in molecular analysis of RNA, DNA cloning, Xenopus oocytes expression cloning, sequencing and characterization of frog and mammalian bombesin genes. Expertise in gene regulation studies, transfections and characterization of regulatory elements in mammalian bombesin genes in normal and neoplastic lung and expertise in organ culture of these fetal lung to study the effects of bombesin is required. At least three years of teaching experience (medical and undergraduate) in biochemistry and molecular biology, demonstration of success as independent scientist with publications in the field of bombesin research, and funding support. Applications will be considered for a month after publication of this advertisement.

Application letter, curriculum vitae, and names of three references to: Dr. Eliot Spindel, Division of Neuroscience, Oregon Regional Primate Research Center, 505 NW 185th Avenue, Beaverton, OR 97006. Affirmative Action/Equal Opportunity Employer.

RESEARCH SCIENTIST-BIOCHEMISTRY

Energy BioSystems Corporation (EBC) is a young biotechnology company involved in the development of innovative bioprocess technology for the fossil fuel industry. We are looking for a research scientist with experience and conduct experiments related to the enzymology of microbial desulfurization. In particular, this position will involve the characterization and development of microemulsion and non-aqueous systems for the biotransformation of petroleum intermediates. This position requires a Ph.D. in Biochemistry (or its equivalent) along with experience with enzyme purification and characterization, and with biocatalysis in non-aqueous and 2-phase systems. EBC is located in The Woodlands, Texas, about 30 miles north of Houston. We offer a competitive salary benefit package. Applicants should apply in confidence to:

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ANNOUNCEMENTS

The Hebrew University of Jerusalem
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The Hebrew University of Jerusalem invites applicants for the Golda Meir and other Postdoctoral Fellowships in Humanities, Social Sciences, Natural and Applied Sciences, Agriculture and Medicine for the 1992-93 academic year.

Candidates may apply at an early stage of their professional career (not later than three years after completion of their doctoral dissertation).

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The Mount Desert Island Biological Laboratory (MDIBL), an internationally renowned marine facility for biomedical and comparative physiological research, invites applications for fellowships in the following categories:

- Young Investigator Fellowships, sponsored by an NSF-ESFCoRe grant and privately donated fellowship funds, are for scientists with a doctorate and evidence of independent research. Fellowship amount is based on individual needs and can include a stipend, laboratory space, housing, and funds for supplies and travel.
- Undergraduate Student-Faculty Fellowships supported by the Pew Charitable Trusts, Burroughs-Wellcome and the Grass Foundation are available for student/faculty pairs with the following qualifications: (1) undergraduate students with a minimum of 1 year of both biology and chemistry; (2) faculty members with Ph.D. actively teaching biology at the undergraduate level. A few individual student or faculty awards may be made. Awarded may work from 1 to 4 months at MDIBL with senior scientists or, in the case of faculty or student/faculty pairs, may choose to work independently. Funding provided for housing, travel, research costs and a stipend; maximum fellowship is $14,000 with up to $6,000 stipend; maximum student fellowship is $7,000 with up to $2,600 stipend.

Applications may be obtained by calling the office at 207-288-3606 or write to: MDIBL, F.O. Box 35, Salsbury Cove, ME 04672.

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