POSITIONS OPEN

MARINE BIOLOGY
ASSISTANT PROFESSOR

The Graduate College of Marine Studies seeks to fill a 12-month tenure-track position in marine biology with the Marine Biology-Biochemistry Program at the University of Delaware Hugh R. Sharp Campus in Lewes. We seek an individual with demonstrated competence and teaching experience in applying MOLECULAR BIOLOGY to probing the relationship between marine organisms (plant, animal or microbe) and their environment. The person filling this position will be expected to teach a graduate course in molecular biology of marine organisms, develop an active research program, and guide graduate students. Applicants should submit a letter of application, curriculum vitae, a copy of their most pertinent reprint, a brief statement of future research plans, and arrange for three letters of reference to be sent by April 20, 1993, to: Dr. Herbert Waite, Search Committee Chairman, Graduate College of Marine Studies, University of Delaware, 700 Pilottown Road, Lewes, DE 19958-1995.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from qualified minority group members and women.

MOLECULAR/CELLULAR BIOLOGIST. Pending budget approval, the Biology Department of Gannon University is seeking a well-qualified candidate to fill a position tenured as an ASSOCIATE PROFESSOR. Responsibilities: Instruction of cellular/biochemistry, plant science and first semester biology. Upper-level plant biology instruction in alternate years. Directing undergraduate research. Requires: Ph.D. in biology/botany, a commitment to teaching and ability to work successfully with undergraduate students. This appointment is a 9-month, tenure-track position. Position available August 1993. To apply: Send letter of application, curriculum vitae and three letters of recommendation by April 19, 1993, to: Personnel, Gannon University, University Square, Erie, PA 16541.

ASSISTANT AND ASSOCIATE PROFESSORS

The Department of Biochemistry at the University of Kentucky has full-time, 12-month, tenure-track positions open at the ASSISTANT and ASSOCIATE PROFESSOR level. The successful candidates will be expected to pursue independently funded research and to participate in departmental teaching activities. Faculty have access to core research facilities needed for state-of-the-art biological research. Responsibilities: submission of research proposals, teaching of curriculum vitae, a summary of research interests, and the names of at least three references to: Faculty Search Committee, Department of Biochemistry, University of Kentucky Medical Center, Lexington, KY 40536-0084. An Equal Opportunity/Affirmative Action Employer.

SCIENCE • VOL. 259 • 19 MARCH 1993

POSITIONS OPEN

ASSISTANT or ASSOCIATE PROFESSORS OF BIOLOGY. The Department of Biology seeks applications for two additional tenure-track positions, a botanist and an animal biologist, beginning September 1, 1993. The botanist should have expertise in cellular or molecular biology. The animal biologist should have expertise in comparative anatomy. Faculty are expected to develop strong research programs involving graduate and undergraduate students and to seek grants for research. A Ph.D. and at least two years of postdoctoral experience are preferred. Send curriculum vitae, a statement of teaching and research interests, selected reprints and three letters of recommendation by April 16, 1993, to: Dr. Pumo, Chairperson, Department of Biology, 114 Hofstra University, Hempstead, NY 11550-1090. Attention: FS#2.

Research Scientist, Ph.D., Division of Nephrology: Rhode Island Hospital/Brown University School of Medicine. Rhode Island Hospital seeks a Research Scientist with a Ph.D. in molecular and/or cell biology with a minimum of 2 years of postdoctoral research experience to join the full-time faculty staff. Candidates must qualify for appointment as INSTRUCTOR/ASSOCIATE PROFESSOR OF BIOLOGY (Research) at Brown University School of Medicine. The incumbent will participate in the educational and training programs of the Division. Individual must have skills in collaborative investigator with other scientists in the Nephrology Research Laboratory. Interested candidates should send curriculum vitae, M.D., Co., Chairperson, Search Committee, Rhode Island Hospital, 593 Eddy Street, Providence, RI 02903, by May 15, 1993. Screening of applicants will begin at that time and continue until a successful candidate is identified or the search is terminated. Rhode Island Hospital is an Equal Opportunity/Affirmative Action Employer and actively solicits applications from minority and protected groups.

TENURE AND NON-TENURE-TRACK POSITIONS

ASSISTANT/ASSOCIATE PROFESSOR

BASIC RESEARCH IN RESPIRATORY RELATED BIOLOGY

The University of Cincinnati College of Medicine is seeking faculty to further their program in basic molecular and cellular biology related to the respiratory system. Candidates should be M.D. or Ph.D. with proven research experience. The current program has several areas of concentration (receptors, asthma, inflammation, structural biology, transgenic models, cystic fibrosis) but candidates with other expertise broadly applicable to lung biology are encouraged. Associate Professor candidates must have independent grant support. We have a progressive partnership with the pharmaceutical industry that can provide additional support for asthma related research. Interested candidates should send curriculum vitae to: Stephen B. Liggert, M.D., University of Cincinnati Medical Center, Departments of Medicine (Pulmonary), Molecular Genetics & Pharmacology, 231 Bethesda Avenue, Cincinnati, OH 45267-0564.

ASSISTANT PROFESSOR, IMMUNOLOGY

The Department of Comparative Medicine, Tufts Uni-

versity School of Veterinary Medicine, is seeking an
investigator with established expertise in the immuno-

ology of mucosal and systemic responses to enteric in-
fectious agents with emphasis on bacterial and protozoan diseases. Position requirements include a D.V.M. and/or Ph.D. level research training, a strong record of research accomplishment and the ability to develop a program focused on the immune status of animals infected with bacterial or parasitic pathogens. Position responsibilities include participation in an NIH-sponsored contract, and directing the immunology course given to veterinary students. The appoint-ee will join a program with laboratories located in a newly constructed and well equipped laboratory at the School on the Grafton, Massachusetts, campus. Salary and benefits are competitive, all of which should begin on May 1, 1993. Applications should include a brief statement of research goals, and experience in teaching veterinary students. Three letters of reference should be sent to: Dr. Carol Reinsch, Chairperson, Department of Comparative Medicine, 200 Westboro Road, Grafton, MA 01536.

Tufts University is an Equal Opportunity/Affirmative Ac-

tion Employer.
DEPARTMENT OF THE ARMY
SENIOR EXECUTIVE SERVICE OPPORTUNITY
DIRECTOR, U.S. ARMY RESEARCH LABORATORY
ADELPHI, MARYLAND

The U.S. Army Materiel Command is seeking applicants for the career Senior Executive Service position of Director, U.S. Army Research Laboratory. The position has an annual salary range of $92,900 to $115,700 depending upon individual qualifications and salary history. The individual selected will also be eligible to earn performance-related bonuses and awards.

The successful candidate will be expected to:

- Build a world class corporate research laboratory system to meet the needs of the Army and the nation well into the next century.
- Provide line authority and technical direction to 3,000 military and civilian employees who are responsible for basic and applied research and advanced technology conducted at locations throughout the United States.
- Maintain a reputation for scientific leadership and serve as the principal laboratory representative to other government agencies, private industry, academic institutions, and international organizations.

Applicants should possess the following qualifications:

- Ability to develop a high performing R&D organization.
- Ability to recognize and advocate applied research thrusts which further Army mission performance through application of technology.
- Ability to effect domestic technology transfer and transition technology to product development.
- Professional stature as a science or engineering expert.
- PhD or ScD in engineering or physical sciences or an equivalent combination of education and research experience.

Applicants must be U.S. citizens and be able to obtain a top secret clearance.

Interested individuals may obtain a complete application package by calling Mr. Thomas Krones, (703) 274-9415, or by writing to: Commander, U.S. Army Materiel Command, ATTN: AMCPE-CS, 5001 Eisenhower Avenue, Alexandria, Virginia 22333–0001. Applications must be postmarked not later than April 30, 1993.

THE DEPARTMENT OF THE ARMY IS AN EQUAL OPPORTUNITY EMPLOYER

HEAD, DEPARTMENT
OF FOREST RESOURCES
COLLEGE OF NATURAL RESOURCES
UTAH STATE UNIVERSITY

The Head is directly responsible to the Dean of the College for planning, coordinating, and directing the affairs of the Department. He or she provides leadership in the recruitment and development of faculty and staff; provides direction for departmental programs; and is responsible for budget development and administration.

Qualifications: an earned doctorate; a record of scholarship in a discipline relevant to forest resources commensurate with the rank of full professor; and demonstrated ability to develop and administer programs of education, research (including the role of extramural funding), and extension.

The Forest Resources Department comprises a faculty of 20, with strong basic and applied programs in the biological and social sciences. It is committed to an interdisciplinary approach to natural resources/environmental management. Utah State University is Utah's land grant university with 16,000 students and 850 faculty.

Applicant screening begins on April 20, 1993, and continues until a suitable candidate is found. Applicants should send a cover letter, vita, and names of four people willing to serve as references to:

Dr. John Malechek
Search Committee Chair
Department of Range Science
College of Natural Resources
Utah State University
Logan, UT 84322-5230.

THE CHINESE UNIVERSITY OF HONG KONG (founded 1963)
invites applications for:

Senior Lectureship/Lectureship in Physiology (two posts)

Applicants should have a relevant PhD degree or a medical qualification and several years of research and teaching experience in Physiology. The Department's current research interests are in epithelial transport, sensory and central nervous system physiology, cardiovascular physiology, muscle physiology, molecular endocrinology and renal and acid-base physiology. The appointee is expected to assume duty in August 1993 or as soon as possible thereafter.

Annual Salary and Fringe Benefits

Senior Lecturer: HK$534,000–717,360 by 8 increments
Lecturer: HK$343,880–389,880 by 2 increments BAR
HK$413,040–574,140 by 7 increments

(33.3% increments)

Starting salary and grade will be commensurate with qualifications and experience.

The University offers a competitive remuneration package. Superannuable appointment benefits include leave with full-pay, medical and dental care, education allowances for children, and where appropriate housing benefit (with appointee contributing 7.5% of salary towards such provision). Appointment may also be made on fixed term contract carrying equivalent benefits including where applicable a contract-end gratuity (15% of basic salary). The University may also consider more flexible terms for suitable candidates subject to mutual agreement.

Application Procedures

Send full resume in duplicate and names and addresses of 3 referees, with copies of academic credentials (in duplicate) and recent publications, to the Personnel Office, The Chinese University of Hong Kong, Shatin, N.T., Hong Kong (Fax: (852/863 5026) before April 13, 1993. Quote reference number 18/599/2/93 and mark "Recruitment" on cover.
HUMAN ANATOMIST with an active research commitment; pending budget approval, the Biology Department of Gannon University is seeking a candidate at the ASSOCIATE PROFESSOR level. Position is supported jointly through Gannon University and the Medical College of Pennsylvania. Responsibilities include instructing human anatomy in baccalaureate health science programs, precepting and participating in research conducted by resident physicians, serving as a Basic Science Research Director for medical students. Requires: Doctoral degree in Life Science, experience in cadaver dissection, and proven ability to acquire research grants. Application packet, with the possibility of extended renewal. Position available August 1993. Application: Send letter of application noting teaching and research interests, and a curriculum vitae with three letters of recommendation by April 19, 1993, to: Director of Personnel, Gannon University. University Square, Erie, PA 16421.

ASSOCIATE DEAN FOR RESEARCH
The University of Kansas School of Medicine announces the search for an Associate Dean for Research. The Associate Dean will be assigned the primary responsibility for maintaining and enhancing the research stature of the School of Medicine and serves as an advocate for the research activities within the School, the Medical Center and the University. The successful candidate must have a terminal degree; demonstrated administrative experience in grant acquisition, familiarity with government and non-government grantor general policies, demonstrated scholarly activities/research, must have had a major NSF or NIH grant within the last five years, and have strong interpersonal, organizational and communication skills. Salary will be commensurate with experience. Nominations and/or applications should be forwarded to: James G. Price, Executive Dean, School of Medicine, The University of Kansas Medical Center, 3901 Rainbow Boulevard, Kansas City, KS 66160-7800. Equal Opportunity/Affirmative Action Employer.

FORESTRY DEPARTMENT CHAIR RE-ANNOUNCEMENT. Candidates must have: an earned doctorate and a degree in forestry or another renewable natural resource field; strong teaching, research or extension background and an outstanding record of scholarly accomplishments; proven communication skills. Applicants should send resume, academic transcripts and names and addresses of five references to: Dr. Robert A. Schmidt, Department of Forestry, University of Minnesota, 13531 University Drive, Hopkins, MN 55341-0420. Application deadline: April 30, 1993.

PROFESSOR AND DIRECTOR CENTER FOR SPEECH PROCESSING
The Johns Hopkins University School of Engineering seeks a Director for the newly created Center for Speech Processing. The director will hold a tenured professorship in the School of Engineering. The center will add new computing facilities, as well as graduate student and postdoctoral support to existing speech research activities in the University. It will host visiting scholars, workshops, and the annual Speech Research Symposium. The director will have academic and administrative responsibilities which include center leadership as well as working closely with governmental and industrial partners to insure the coordination of the interdisciplinary research and education activities in the center. Candidates should be recognized authorities in an area of speech science or technology. Emphasis will be placed on the quality and depth of a candidate's academic expertise and leadership record. Nominations and applications (including complete CV and the names, addresses and telephone numbers of three professional references) should be sent to:
Center for Speech Processing Search Committee
G. W. C. Whiting School of Engineering
The Johns Hopkins University
Baltimore, MD 21218
Applications will be accepted until May 15, 1993, or until the position is filled.

The Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF BIOLOGY ASSISTANT PROFESSOR POSITION
The Department of Biological Sciences, University of Wisconsin Center System invites applications for a full-time, tenure-track assistant professor position on the Marathon County Campus, Wausau, Wisconsin, beginning August 1993. Quality teaching is emphasized; research and community service activities are expected. Applicants should have a terminal degree in a field closely related to teaching microbiology and botany. The candidate's area of interest can be any discipline of microbiology or genomics. Send curriculum vitae, all college transcripts, and three current letters of reference to: Dr. Arne Sall, Department of Biological Sciences, University of Wisconsin–Center, Marathon, 518 South 7th Avenue, Wausau, WI 54401. Application deadline is April 15, 1993, or until a suitable candidate is identified. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer and encourages women and minorities to apply.

MAXIMUM ATTENTION MINIMUM COST
Have your ad stand out in the crowd. When you have a position and you don't have the funds for a display ad, place a line ad with a BOX and/or LONG. Line ads do not exceed 2 lines, you will be charged 2 lines, 200 characters for the top and bottom rule and it allows 48 characters instead of 52 characters per line. For a logo we only charge for how many lines it takes up. For more information on how to place a line ad with a box and/or logo please contact: Millie Madonna, Personnel Office, 682-0816. We will call to confirm your ad and give you an estimated cost.

Science:

ASSOCIATE DEAN FOR ACADEMIC AFFAIRS
College of Agricultural and Life Sciences
University of Wisconsin-Madison

The University of Wisconsin-Madison College of Agricultural and Life Sciences invites applications of and applications from outstanding and creative individuals with a serious commitment to innovation and excellence in undergraduate, graduate and outreach education. We are seeking a College Academic Affairs Dean who will have responsibility for over 2000 undergraduate students and 1200 graduate students in 23 departments and an interdepartmental graduate program in Agricultural Sciences. This is a full-time, 9-month appointment.

Applications and nominations will be accepted until May 5, 1993. Applicant review will begin April 15, 1993. Applications should include a letter of interest, résumé, and the names, addresses and telephone numbers of three references and should be sent to: Dr. Paul Williams, College of Agricultural and Life Sciences, University of Wisconsin-Madison, 1450 Linden Drive, Room 249, Madison, WI 53706. Telephone: 608/262-4591.

Note: Unless confidentiality is requested in writing, recommended names and applications will be released upon request. Finalists cannot be guaranteed confidentiality.

The University of Wisconsin-Madison is an Equal Opportunity/Affirmative Action Employer.

VISITING LECTURER OF ECOLOGY: The Department of Biology, Northeastern Illinois University, is seeking a Visiting Lecturer of Ecology for fall 1993. Position may become tenure-track contingent upon funding. Ph.D. required. Teaching undergraduate and graduate courses in ecology are expected. A demonstrated commitment to excellence in teaching and fairness in classroom management are desirable. Send current curriculum vitae, letter of application, and three nominations and names, addresses, and telephone numbers of three references to: Dr. Simon Chung, Chair, Department of Biology, Northeastern Illinois University, 6000 South Broadway, Chicago, IL 60623. Review of applications will begin April 5, 1993. An Affirmative Action/Equal Opportunity Employer.

EDUCATION/RESEARCH FACULTY POSITIONS
CHEMICAL ENGINEERING

The Department of Chemical Engineering at the University of Delaware invites applications for two tenure-track faculty positions, one at the junior and one at the senior level. Candidates are expected to work in the areas of catalysis and kinetics or materials science are preferred. However, applications from outstanding candidates in any field of chemical engineering will be considered. A Ph.D. degree in chemical engineering or a closely related field is required. Successful applicants will be expected to carry out a vigorous research program, to teach and advise students at both the undergraduate and graduate levels. The Chemical Engineering Department is well equipped and maintains laboratories and computing facilities. Send curriculum vitae, letter of application, and three nominations and names, addresses, and telephone numbers of three references to: Professor Henry C. Foley, Head of the Search Committee, Department of Chemical Engineering, University of Delaware, Newark, DE 19716. Applications will be reviewed until positions are filled.

The UNIVERSITY OF DELAWARE is an Equal Opportunity Employer which encourages applications from qualified minority group members and women.
University of Otago
Te Whare Wananga o Otago
New Zealand

LECTURER IN PHYSIOLOGY

Applications are invited from suitably qualified physiologists for a full-time lectureship. The applicant will be expected to initiate or participate in an active programme of research. The present research interests of the Department are in the fields of neurophysiology, cardio-respiratory physiology, epithelial transport and cell volume regulation. However, candidates with experience in any area of physiology will be considered. The Department teaches physiology to students in the Health Sciences (Medicine, Dentistry, Pharmacy, Physiotherapy) as well as to Science students.

Commencing salary will be dependent on qualifications and experience, and will be made within the following salary range: Lecturer: $NZ27,440 - $NZ49,088, with a bar at $NZ35,448 per annum.

Further particulars are available from the Secretary-General, Association of Commonwealth Universities (Appointments), 36 Gordon Square, London WC1H 0FF, England or the Registrar, University of Otago, PO Box 56, Dunedin, New Zealand, (Fax: (64) (3) 474-1607).

Applications quoting reference number A93/12 close with the Registrar and in London on 30 April 1993.

Equal opportunity in employment is University policy.

Chairman/Division Head
Laboratory Medicine

The University of Texas M. D. Anderson Cancer Center is seeking a Division Head of Laboratory Medicine. The Division of Laboratory Medicine incorporates the Sections of Clinical Chemistry, Special Chemistry, Cytogenetics, General Services, Laboratory Information Systems, Hematopathology, Microbiology, Hematology, Molecular Pathology, Blood Bank, Transfusion Medicine, Laboratory Immunology, Histocompatibility Laboratories, Virology, Stat Laboratory and Satellite Laboratories. Candidates for this position should have significant experience and accomplishments in academic clinical pathology and laboratory medicine and documented progressive evidence of administrative and leadership skills. Certification by the American Board of Pathology is preferred. Dedication to the pursuit of excellence in research, teaching, and clinical service is essential. Applications will be accepted until May 1, 1993.

Qualified applicants should submit a curriculum vitae to: Dr. David C. Hohn, Interim Vice President for Patient Care, The University of Texas M. D. Anderson Cancer Center, 1515 Holcombe Boulevard, Box 43, Houston, TX 77030 or call (713) 792-7475. An equal opportunity/affirmative action employer. Smoke-free environment.

HARVARD UNIVERSITY-MASSACHUSETTS INSTITUTE OF TECHNOLOGY
DIVISION OF HEALTH SCIENCES AND TECHNOLOGY

FACULTY POSITION
BIOLOGICAL ENGINEERING/BIOLOGICAL PHYSICS

The Massachusetts Institute of Technology seeks to identify a junior faculty member (tenure track) to work at the interface of cellular/molecular biology and the physical sciences. The candidate's specific research area is flexible, but should represent a blend of modern biology with, for example, physics or engineering. Potential research areas might include molecular biophysics, quantitative cellular physiology, tissue engineering or cell-based artificial organs. The successful candidate must have documented expertise in molecular and cellular biology or physiology as well as in the physical or engineering sciences. Familiarity with the medical sciences and the relevance of research interests to human disease is highly desirable, but an MD degree is not required. In addition to conducting an active independent research program, the individual will have major responsibilities in the education of scientists, engineers, and physicians who expect to work at the forefront of technology and medicine. The appointment will be made in the Harvard-MIT Division of Health Sciences and Technology. A secondary appointment in an MIT department in the candidate's discipline may be possible.

Qualified applicants should send a curriculum vitae, a statement of research and teaching objectives, and three letters of reference to:

Faculty Search Committee
Attention: Barbara Jaskela
Room E25-519
Massachusetts Institute of Technology
77 Massachusetts Ave.
Cambridge, MA 02139

The closing date for applications is June 1, 1993. MIT is an Affirmative Action/Equal Opportunity Employer.

A new Research Centre of a French Pharmaceutical Company in the outskirts of Paris is seeking a

BEHAVIOURAL PHARMACOLOGIST

Possessing a PhD and preferably significant post-doctoral experience in the fields of operant techniques and experimental models of anxiety, depression and schizophrenia. A knowledge of French would be an advantage but is not essential. Please send a CV together with a hand-written letter and photo to Média-System, 6 impasse des Deux Cousins, 75849 Paris Codex 17, quoting ref. 40888 on the envelop.
ASSOCIATE DIRECTOR FOR RESEARCH ON WOMEN'S HEALTH

The National Institutes of Health (NIH) invites applications for the position of Associate Director for Research on Women's Health, Office of the Director. This is a Civil Service position in the Senior Executive Service (SES), with a salary ranging from the ES-1 to ES-6 pay level per annum (currently $92,900 to $115,700). The person selected may be eligible for a Physicians Comparability Allowance ranging from $5,000 to $20,000 per year. A one year probationary period must be served by the individual selected if not currently in the career Senior Executive Service.

The position of Associate Director for Research on Women's Health is responsible for:

1. strengthening and enhancing research related to diseases, disorders, and conditions that affect women and for ensuring that research conducted and supported by NIH adequately addresses issues regarding women's health;
2. ensuring that women are appropriately represented in biomedical and behavioral research studies supported by the NIH;
3. developing opportunities and supporting initiatives for recruitment, retention, re-entry, and advancement of women in biomedical careers;
4. coordination of overall policies related to women's health issues;
5. liaison with a wide variety of groups and organizations related to women's health.

Applicants must possess biomedical research experience and knowledge of research programs for diseases, disorders, and conditions that are causes of morbidity and mortality in women.

Applicants are required to submit an Application for Federal Employment (SF-171), available at all Federal Job Information Centers and Federal Personnel Offices. Resumes are not acceptable applications. Additionally, applicants may send a curriculum vitae and a bibliography. The vacancy announcement with mandatory/desirable qualifications requirements can be obtained by calling (301) 402-4111. Application material must be sent to the following address:

National Institutes of Health
Office of the Director Personnel Office
ATTN: Ms. Wanda Haney Faux
Building 31, Room 1C-27
9000 Rockville Pike
Bethesda, Maryland 20892

Fax material cannot be accepted. Public Health Service Commissioned Officers wishing to enter the SES must follow the above procedures. Officers interested in performing the duties of the position within the PHS Commissioned Corps may submit a resume to above address.

APPLICATION MUST BE RECEIVED NO LATER THAN APRIL 14, 1993.

Selection for this position will be based solely on Merit, with no discrimination for Nonmerit reasons such as Race, Color, Religion, Sex, National Origin, Political Affiliation, Marital Status, Handicapping Condition, Age, or Membership or Nonmembership in an Employee organization.

NIH is an Equal Opportunity Employer

Assistant Professor/Atmospheric Chemistry/Air-Sea Exchange

The addition of the Institute for Terrestrial and Planetary Atmospheres (ITPA) to the Marine Sciences Research Center (MSRC) has led to an entry level, tenure track, assistant professor position for September 1993 to enhance collaborative research on the interaction of the oceans with the Earth's atmosphere. Successful candidates will have a doctorate in atmospheric or ocean science or other relevant fields and the ability to develop original research program in atmospheric and/or ocean science and to teach effectively at the graduate and undergraduate level. Preference will be given to candidates with a research interests complementing existing research fields in ITPA and MSRC and who can interact well with faculty members in both atmospheric and ocean sciences in areas such as: tropospheric chemistry, physics and chemistry of the air-sea exchange, and climate, although those with other specialties are also encouraged to apply. Applicants should send a curriculum vitae, list of publications, statement of research interests, and have three letters of recommendation sent directly to Dr. Dong-Ping Wang, Search Committee, Marine Sciences Research Center, SUNY, Stony Brook, New York 11794-5000. Applications received by April 15 will be given first consideration but position will remain open until suitable candidate is found.

The State University of New York is an Equal Opportunity/Affirmative Action Educator and Employer. Women and minority candidates are strongly encouraged to apply.

This role in reducing toxicity and exposure to environmental contaminants

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April 26-28, 1993
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Research Triangle Park, North Carolina

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Daniel Abramowicz
Linda Abdulla
Martin Alexander
Robert Arnold
Steven Aust
Peter Chapman
Carl Camiglia
Kensuke Furukawa
William Ghiors
F. Peter Guenger
Kenneth Hammel
Robert Hausinger
James Hunt
Dick Janssen

For Information, please contact:
Lilly Young (908) 932-1584 or
Sue Halsby (919) 541-1403

Biodegradation:

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

The European Molecular Biology Laboratory, an international research organization situated in Heidelberg, Germany, has a vacancy for a

SOFTWARE ENGINEER

The Protein and Peptide Group at EMBL has developed software for data acquisition and instrument control in the area of protein mass spectrometry. Furthermore, we have started work on programs to scan mass spectrometric results against large sequence databases. We now need a software engineer for the further development and maintenance of these programs. Programming will be on Macintosh computers and the programming language will be C++. The successful candidate will be integrated into a dynamic, multi-disciplinary group.

Candidates should have an MSc degree in Computing Science, Electrical Engineering or an equivalent qualification. Experience in electronics in addition to a software background would be advantageous.

We offer an above-average salary, plus certain allowances depending on personal circumstances.

Please write briefly for an application form, quoting ref. no. 92/30.

EMBL Personnel Section,
Postfach 10.2209
D-6900 Heidelberg
Federal Republic of Germany

KUWAIT UNIVERSITY
DEPARTMENT OF GEOLOGY
FACULTY OF SCIENCE

The Department of Geology is seeking qualified university staff to fill the following posts:

1) Faculty member in Geochemistry and Ore Deposits - minimum qualification required is a Ph.D. degree from a recognized university and at least 5 years of teaching experience.

Selected candidate is expected to teach courses in Ore Deposits and Geochemistry. Experience in Isotope Geochemistry is an advantage. The selected candidate will be required to assist in improving and updating research and teaching laboratories and facilities in Geochemistry.

2) Faculty member in Metamorphic Petrology - minimum qualification required is a Ph.D. degree from a recognized university and at least 5 years of teaching experience.

The selected candidate is expected to teach courses in igneous and metamorphic petrology and assist in improving and updating research and teaching laboratories and facilities in metamorphic petrology.

3) Teaching Assistant in Sedimentary Petrology - minimum qualification required is an M.Sc. degree. Previous teaching experience in Sedimentary Petrology is an advantage.

Selected candidate is expected to assist in teaching and conducting practicums in the Petrology and Sedimentary Rocks (detritals and carbonates) and may be asked to contribute to the teaching of laboratory classes in Physical Geology, Stratigraphy and Mineralogy.


Application and conditions of service may be obtained from the Kuwait University Office, 3500 International Dr., NW, Washington, DC 20008; Tel# 202/363-8055. All completed applications and documents as well as inquiries about the above positions should be directed to:

Chairman
Department of Geology
Faculty of Science
Kuwait University
P.O. Box 5969
Kuwait - 13060

FAX No. 965/481-6487

“MINORITIES IN SCIENCE . . .
A SEARCH FOR SOLUTIONS”

SCIENCE 13 November 1992 Reprint

In a first-time special section, the 13 November issue of SCIENCE explores the complex problems and obstacles facing minorities as they work and compete in the scientific community. Highlights include:

• AFFIRMATIVE ACTION PROGRAMS
• CAREER PROFILES
• BARRIERS FACING MINORITIES
• THE SEARCH FOR SOLUTIONS

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FACULTY POSITION IN CELL/TUMOR BIOLOGY

In conjunction with the Lombardi Cancer Research Center, the Division of Cell Biology and the School of Medicine at Georgetown University Medical Center is seeking applicants for a tenure-track position at the level of ASSISTANT or ASSOCIATE PROFESSOR. Preference will be given to individuals working in related areas of cell and developmental biology or cell and developmental biology who are also actively involved in research on tumor biology. Successful candidates will have a strong background in molecular biology and experience in cell biology. The salary and benefits are competitive. Applications should be sent to: Dr. Charles Underhill, Department of Anatomy and Cell Biology, Georgetown University Medical Center, 2300 M St. N.W., Washington, D.C. 20037 (Telephone: 202) 934-8000; FAX: 202) 934-8000. The selection process will begin on May 14, 1993. Georgetown University is an Equal Opportunity/Affirmative Action Employer.

INSTRUCTOR, Department of Zoology at Oregon State University. A fixed-term appointment to teach and coordinate courses in Human Anatomy and Physiology for the 1993-1994 academic year at Oregon State University, Corvallis, Oregon. Applicants should have teaching experience in anatomy/physiology and satisfactory credentials in anatomy. Salary: $30,000 annually. Send letter of interest, resume, and three references to: Dr. John Ruben, Physiology Search Committee, Zoology Department, Oregon State University, Corvallis, OR 97331-2914. Closing date: 1 May 1993. OSU is an Affirmative Action Employer/Equal Opportunity Employer and has a policy of being responsive to needs of dual-career couples.

POSTDOCTORAL POSITIONS: Available in NIH-funded laboratory to study neurochemical and neurophysiological bases for recovery of motor function following cortical ischemia. Individual will utilize intracortical microstimulation, single or multi-unit recording, spike-triggered averaging and electromyographic recording techniques to study plasticity of cortical motor topography. Ph.D. in neuroscience or related neurobiological field with experience in electrophysiology and/or microsurgery is desired. Position is funded for up to 3 years. Send letter of application, curriculum vitae and names of three references to: Ruben, Physiological Laboratory, Oregon State University, Corvallis, OR 97331-2914. Oregon State University is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION IN VERTEBRATE ANATOMY AND PHYSIOLOGY

The Department of Biology invites applications for an assistant or associate professor position at the fall 1993 Ph.D. level and college-level teaching experience are required. The position requires the teaching of vertebrate anatomy and physiology to bio majors. Other teaching assignments include introductory biology courses and natural science core courses (emphasizing evolution and/or environmental science). The successful candidate will also be involved in research and teaching in one of the biology majors in carrying out independent research projects. Other areas of responsibility encompass advisement, participation in curriculum development and departmental and committee. Dowling College is a fully accredited, independent, coeducational, liberal arts college with outstanding graduate programs in business administration and education. The College is located on the south shore of Long Island, fifty miles from Manhattan. Dowling College offers excellent benefits along with a competitive salary. Please send a letter of interest and curriculum vitae to: Director of Human Resources, Dowling College, 500 Rockefeller Ave., Albany, NY 12207-1769-1999. Equal Opportunity/Affirmative Action Institution.

POSTDOCTORAL POSITIONS: Available immediately for molecular analysis of virus-host interactions. Experiments will investigate structure-function relationships between TMV coat protein and host resistance. Experience with plant pathogen interactions is desired. Send curriculum vitae and names of three references to: Dr. James Culver, Center for Plant Molecular Biology, University of Maryland, College Park, MD 20742; FAX: (301) 314-9082. The University of Maryland is an Affirmative Action/Affirmative Action Employer.

POSTDOCTORAL POSITIONS IN MOLECULAR BIOLOGY

Postdoctoral positions are available to study molecular mechanisms that regulate yeast and Drosophila as model systems. Candidates should have a recent Ph.D. degree with strong background in molecular biology and genetics. Interested individuals should send curriculum vitae, a brief statement of research interests, and three references to: Dr. June Ma, Division of Basic Science Research, Children's Hospital Research Foundation, 2103 East 23rd Street, Cleveland, Ohio 44114. Equal Opportunity Employer.

POSTDOCTORAL POSITION IN MICROBIAL ECOLOGY

Applicants should have experience working with aquatic or soil microorganisms. Send curriculum vitae and names of three references to: Dr. Thomas Mitchell, Harvard University, Division of Applied Sciences, 29 Oxford Street, Cambridge, MA 02138. Harvard University is an Affirmative Action/Affirmative Action Employer.

POSTDOCTORAL POSITIONS: Available in the Department of Microbiology and Molecular Genetics, the University of Texas Health Science Center, Houston, P.O. Box 20708, Houston, TX 77225. Direct inquiries to: Dr. S. Kaplan: gene regulation of membrane biosynthesis by oxygen and light, redox control of gene expression, oxygen reduction and regulation and membrane assembly in rhodobacter sphaeroides. Dr. P. Christie: structure/function analyses of the T-DNA transport complex and transport from agrobacterium tumefaciens to plant cells. Dr. K. B. Kaplan: molecular genetic and biochemical studies of cell-cell interactions, transduction required for myxococcus multicellular development. The University of Texas is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION AVAILABLE: In the Department of Biochemistry, University of California, San Diego. Postdoctoral position available in the laboratory of Dr. J. Losick for study of cell cycle control and the role of cell cycle control in development and differentiation of eukaryotic cells. The successful candidate will use mouse embryonic stem cells to study cell cycle control and development. Experience in cell biology and mouse embryo manipulations are strongly preferred. Salary: $27,000 for 9 months. Send curriculum vitae and names of three references to: Dr. Jay E. Lander, Department of Biochemistry, University of California, La Jolla, CA 92037-1071. University of California is an Equal Employment Opportunity Employer.

POSTDOCTORAL POSITION OPEN: We are recruiting a postdoctoral fellow to study ion channel function and regulation. Experience will be on normal, mutant and chimeric cloned channels. Electrophysiological experience is the position available immediately. Candidates are expected to be U.S. citizens or have a permanent residence. Applicants should send curriculum vitae and names of three potential references to: Dr. Tsukasa Yamanishi/Arnold Schwartz, Department of Pharmacology and Cell Biophysics, University of Cincinnati College of Medicine, 231 Bethesda Avenue, Cincinnati, OH 45267-0575. The University of Cincinnati is an Equal Opportunity Employer. Applications from women and underrepresented minorities are encouraged.

EXCELLENT POSTDOCTORAL FELLOWSHIP AVAILABLE: The Laboratory of Cellular Biochemistry, National Institutes of Health, is seeking postdoctoral fellows to work in the laboratory of Dr. G. J. Nunez. The laboratory uses genetic approaches to elucidate how specific proteins are targeted to specific subcellular compartments and the role of the cell cycle on these processes. Candidates with experience in cell biology and genetics are encouraged to apply. Applications should be submitted to: Dr. G. J. Nunez, Laboratory of Cellular Biochemistry, National Institutes of Health, Bethesda, MD 20892. The National Institutes of Health is an Equal Opportunity Employer.
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POSITION: BIOCHEMIST/CELL BIOLOGIST IN NUTRITION. The Department of Food Science and Human Nutrition invites applications for a tenure track position at the Assistant Professor level. Exceptional candidates at the Associate Professor level will be considered. The successful candidate will be expected to develop a strong extramurally funded research program utilizing modern Cell/Molecular Biology approaches to investigate the role of nutrition in gene expression as it relates to normal cell function and disease. Candidates with an interest in the area of lipids are especially encouraged to apply. Candidates will be expected to teach in their area of expertise, advise graduate students, and collaborate with Biochemical Nutrition faculty in areas of mutual interest. Interaction with other faculty in Food Science and Human Nutrition will be encouraged. A competitive package of start up funds is available. Applications should have completed a Ph.D. program in Nutrition, Biochemistry, Physiology or related field and have obtained post-doctoral training in Cell/Molecular Biology. Applicant should have excellent communication skills, and be committed to graduate teaching and advising. Salary is commensurate with professional qualifications, experience, and abilities. Excellent benefits package. Qualified individuals should submit a resume, brief summary of research/teaching accomplishments, brief summary of future research plans, current list of publications, reprints of representative publications and arrange to have three letters of reference sent to Dr. John E. Linz, Department of Food Science and Human Nutrition, 2348 Food Science Building, Michigan State University, East Lansing, MI 48824, (517) 353-9624/FAX: (517) 353-8863. Closing date for applications: May 15, 1993 or until position is filled. Michigan State University is an affirmative action/equal opportunity institution. Women and minorities are encouraged to apply.

REQUEST FOR PROPOSALS

The Center for VDT and Health Research at the Johns Hopkins University, School of Hygiene and Public Health, invites investigators to submit proposals for research on the health effects of VDT use. The Center has particular interest in supporting innovative studies of the following issues:

a) Methodologies for the measurement of electromagnetic field (EMF) exposures associated with VDTs, and the contribution of VDTs to total field exposure;

b) The association between VDT use and reproductive health problems; or cancer of the reproductive system;

c) The measurement of physical stresses/forces associated with VDT use and the effects on cumulative trauma disorders (CTDs);

d) The moderating influence of psychosocial stress on b) and c) above;

e) The biological effects of EMFs at the cellular or subcellular level.

The Center primarily provides support for pilot studies or for additions to existing studies. The average award is approximately $50,000 per year for direct costs, and indirect costs should not exceed 15%. Funds can be awarded for up to three years, subject to annual review.

Investigators are invited to submit a two page pre-proposal to Dr. Ronald H. Gray, Room 4038, Johns Hopkins University, School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205, (Fax: 410-955-0170). Pre-proposals of pre-proposals can be obtained on request. Pre-proposals should be received by Friday, June 11, 1993. After review by the Centers Scientific Advisory Board in July, selected investigators will be asked to submit full proposals by September, for final review and funding.

Professor and Department Head
Geography and Earth Resources
Utah State University

Established in 1968, the Department of Geography and Earth Resources enjoys a unique combination of strengths in the social and physical sciences. At the core are the U.S. Forest Service Regional Science Research Center, the Cooperative Research Units, the Institute for Systems Applications, the Earth System Research Laboratory, the Institute of Arctic and Alpine Research, and the Cooperative Institute for Research in Environmental Sciences. The Department has demonstrated a commitment to curriculum development, student support, and extramural research. The Department is committed to excellence in research, teaching and service in the Earth system sciences.

The Department invites applications for the position of Head, to begin in the Fall 1993. The Head is responsible to the Dean of the College for planning, coordinating, and directing the affairs of the Department. He or she provides leadership in recruitment of faculty and staff; develops direction for departmental programs of instruction, research, and extension; and is responsible for budget development and administration.

Qualifications include an earned doctorate in Geography or related discipline; record of scholarship commensurate with the rank of full professor; appreciation of the complete breadth of the human and physical components of geography and earth resources; awareness of the potential contributions of geography to the environmental sciences; environmental policy, and natural resources management; demonstrated ability to develop and administer programs of education, research (supported by extramural funding), and extension; and effective communication and inter-personal skills. International experience or regional specialization desirable. Screening will begin on May 15, 1993 and continue until the position is filled. Send statement of interest and personal evaluation of qualifications, vita and names of 4 references to:

Dr. Raymond D. Deaver
GER Search Committee Chair
Department of Fisheries and Wildlife
Utah State University
Logan, Utah 84322-5210

MOLECULAR BIOLOGY MARKETING TAIWAN

Beckman Instruments Inc., has fast growing operations in its Taiwan branch, in both diagnostics and bioresearch marketing and sales. New product development for researchers in the protein and DNA field requires an outstanding individual to further promote and support our products through the use of workshops and seminars. We require a Ph.D. in Life Sciences, coupled with research focusing on DNA and RNA. The right candidate must be willing to return to Taiwan, and must be fluent in Mandarin, Taiwanese and English. Experience in the following techniques required: DNA Synthesis and Sequencing, and RFLP Analysis. We offer a competitive salary and benefits package. Please send your resume with your date of availability to: Beckman Instruments, Inc., c/o International Human Resources, 2500 Harbor Blvd., Mail Stop A-40-E, Fullerton, CA 92634. An Affirmative Action Employer.
TEMPORARY FACULTY POSITIONS

The T.H. Morgan School of Biological Sciences seeks well-qualified applicants for one-year appointments in the 1993-94 academic year. Candidates for temporary positions will be instructed on the teaching of introductory biology courses. Classroom experience and commitment to undergraduate education are essential. Facilities and resources for CTY students will be commensurate with experience. Submit curriculum vitae and names of three references by April 15, 1993, to: Dr. William Cohen, 101 Morgan Building, University of Kentucky, Lexington, KY 40506-0212.

An Equal Opportunity/Affirmative Action Employer.

TENURE-TRACK FACULTY POSITION AT CARB

STRUCTURAL MOLECULAR BIOLOGY

The Center for Advanced Research in Biotechnology (CARB) is seeking an individual for a tenure-track faculty position with a strong interest and demonstrated ability for creative research in macromolecular structure and function. Excellent applicants working in the broad areas of biochemistry, molecular biology, and biophysics are invited to apply. We are especially seeking a scientist who has a strong interest in the functional behavior of macromolecules, with a focus on one of the following general areas: the biochemistry of membrane proteins, signal transduction, enzymology, the structure and function of nucleic acids or nucleic acid binding proteins, theoretical or experimental approaches to drug design, or peptide chemistry as it applies to a biological problem. The successful candidate will be expected to develop an independent, externally funded research program, and to interact with other CARB scientists involved in macromolecular crystallography, solution NMR spectroscopy, molecular biology, physical biochemistry, protein folding, stability, modeling and engineering.

CARB is a research center of the National Institutes of Standards and Technology (NIST) and the Maryland Biotechnology Institute of the University of Maryland System devoted to fundamental problems of macromolecular structure, function and engineering. Interested candidates should send curriculum vitae, three letters of reference, and a summary of research interests and plans to:

Faculty Search Committee
Center for Advanced Research in Biotechnology
9600 Gudelsky Drive
Rockville, MD 20850, U.S.A.

Review of applications will begin 1 June 1993. CARB is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST: St. Mary's College of Maryland, a small, public, liberal arts honors college, seeks a scientist to replace a colleague retiring August 1993. Applicants must have completed a Ph.D. in Molecular Biology or a related field by August 1993. A strong commitment to teaching and demonstrated proficiency in a variety of molecular laboratory techniques is required. Teaching responsibilities include Molecular Biology and Senior Seminar for majors, and Contemporary Bio-science for non-majors, and laboratories in Introductory Biology and Genetics. Send letter of application, curriculum vitae, unofficial transcripts, and the names of three references by April 15, 1993, to: Dr. C. Tanner, Division of Natural Sciences and Mathematics, St. Mary's College of Maryland, St. Mary's City, MD 20686. St. Mary's College of Maryland is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately to study Cryptosporidium parvum folate biosynthesis, cloning and expression of genes encoding folate biosynthetic enzymes, structure-function analyses to investigate active sites, and regulation of expression of drug resistance. Prior experience in molecular biology and enzyme biochemistry (FPLC, kinetics) strongly preferred, experience with parasitic organisms necessary. Send a brief description of research experience, curriculum vitae and the names, addresses and telephone numbers of three references to: Dr. Richard G. Nelson, Division of Infectious Diseases, San Francisco General Hospital, University of California at San Francisco, Box 8611, San Francisco, CA 94143-0811; FAX: 415-206-6015. UC/SF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION available immediately to study Biochemistry and Physical Biochemistry of proteins, nucleic acids, and protein nucleic acid interactions. Experience in Biochemistry, Physical Biochemistry, Chemistry or Physics preferred. Please send current curriculum vitae and three letters of reference to: Dr. Wlodzko Budajowski, Department of Human Biological Chemistry & Genetics, The University of Texas Medical School, 5323 Fannin, Houston, TX 77030. UTMB is an Equal Opportunity/Affirmative Action Employer, M/F/H/V. UTMB is a smoke-free, drug-free work place. UTMB hires only individuals autho-rized to work in the United States.

TWO POSTDOCTORAL POSITIONS AVAILABLE: (1) Conduct research on the molecular biology of Baculovirus gene expression, virus maturation, and assembly. Successful applicant will study in all aspects of recombinant DNA techniques. In addition, protein func-tion studies using genetic and classical biochemical ap-proaches will be required. (2) Study the molecular biology of polydnavirus gene expression and protein purification to determine the mechanism of viral interference with host immune recognition of foreign agents. Successful applicant will study in all aspects of recombinant DNA and viral vector cloning to study the expression of a family of viral genes containing unique structural motifs. Send résumé and three references to: Dr. Max D. Sumner, Section of Invertebrate Molecular Sciences, Texas A&M University, Department of Entomology, College Station, TX 77843-2475. Texas A&M University is an Affirmative Action/Equal Opportu-nity Employer.

THE CLEVELAND CLINIC RESEARCH INSTITUTE

POSTDOCTORAL FELLOWS IN CELL AND MOLECULAR BIOLOGY

Positions available in collaborative research effort with emphasis on mechanisms of cell injury, cell growth regulation and regulation of gene expression of protective cellular enzymes. Competitive salary and fringe benefits.

Send curriculum vitae and names of three references to either:

Dr. Guy Chisolm or Dr. Donna Driscoll
Department of Cell Biology—NC10
The Cleveland Clinic Foundation Research Institute
9500 Euclid Avenue
Cleveland, OH 44195

POSTDOCTORAL FELLOWS (2): Plant ecologist to study the role of nitrogen availability in the control of shoot/root development and maternal effects in Capsicum. Fellowship will be for one year, with possibility of renewal for additional years of study. Salary is $27,000 per year. Application deadline is 1 June 1993. Send résumé, three references, and names of three friends by 16 April 1993 to: Dr. J. Levy, Department of Biological Sciences, Colorado State University, Fort Collins, CO 80523. Telephone: 303-491-6541.

Colorado State University is an Equal Opportunity/ Affirmative Action Employer.

POSTDOCTORAL NIH FELLOWSHIP in second-messenger signaling pathways, and secretion by, single gonadal cells. Please send cover letter and curriculum vitae to: Dr. J. D. Virginia, Biologic Sciences, Institute of Internal Medicine, University of Virginia Health Sciences Center, Charlottesville, VA 22908. The University of Virginia is an Equal Opportunity/ Affirmative Action/ Equal Employment Opportunity.

POSTDOCTORAL FELLOW

Position available to conduct research on the active sites and regulatory sites of enzymes. Approaches used include affinity labeling, site-directed mutagenesis, physicochemi-cal studies of various enzymes, and protein isolation and characterization. Ph.D. in Biochemistry required. Send curriculum vitae and 3 references to: Dr. Roberta C. Cohen, Department of Chemistry, University of Delaware, Newark, DE 19716, An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

Position available to study protein-DNA interactions and protein-protein interactions in eukaryotic cells and in mammalian biology. Experience in all aspects of recombinant DNA technology required. Salary competitive with experience. Submit curriculum vitae and 3 letters of recommendation to: Dr. Gwendolyn B. San-car, Department of Biochemistry CB# 7260, School of Medicine, University of North Carolina at Chapel Hill, Chapel Hill, NC 27599-7260. The University of North Carolina is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP IN NEUROSCIENCE

MINORITY FELLOWSHIP PROGRAM

Applicants are invited for support by the Minority Fellowship Program (MFP) of the National Institutes of Health, National Institute of Neurological Disorders and Stroke (NINDS). NINDS and other NIH Institutes offer highly competitive support for postdoctoral education and research in neuroscience. The MFP provides support for the training and early career development of postdoctoral fellows to enhance the diversity of the neuroscience workforce. The MFP provides up to two years of support for postdoctoral fellows in positions at participating institutions. The MFP also supports the participation of minority faculty in the development of minority postdoctoral fellows. Applications must be submitted by August 1, 1993. For more information, call (301) 496-5040 or write to the MFP Program Office, Room 4C-10, National Institute of Neurological Disorders and Stroke, 31 Center Drive, MSC 2685, Bethesda, MD 20892-2685. EEO/AA.

POSTDOCTORAL FELLOWSHIP IN NEUROSCIENCE

APPLICATIONS ARE INVITED for a position in the laboratory of Dr. Martin A. Serio in the area of Molecular Ag- ing. Research in this new state-of-the-art laboratory focuses on estrogen-dependent and glucose-dependent changes in gene expression in mouse embryos and diabetes, and to test their effects on gene expression which may lead to age-correlated changes in gene expression and physiological function and may mediate effects of dietary restriction on age-correlated impairments. Technical approaches we routinely use include: isoelectric focusing, PCR, quantita-tive blots (Northern, Western), 1-D and 2-D electrophoresis, immuno-chemistry, polyacrylamide gel electrophoresis, and other techniques as appropriate. Salary range: $28,000 to $35,000. Please send curriculum vitae and names of three references to: Dr. Charles Mokhova, Department of Biological Sciences, Box 1065, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIP IN NEUROSCIENCE

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POSTDOCTORAL RESEARCH ASSOCIATE

COLUMBIA UNIVERSITY

COLLEGE OF PHYSICIANS AND SURGEONS

Position available immediately in an interdisciplinary group involving the use of lipoprotein enzymes in the nervous system. Background in protein purification (particu-larly microbial enzymes), molecular biology, and/or lipid metabolism is required. Submit curriculum vitae and the names of three references to: Steven J. Feinmark, Ph.D., Department of Pharmacology, Columbia University, 630 West 168th Street, New York, NY 10032. FAX: (212) 305-8780. Columbia University is an Equal Opportunity/Affirmative Action Employer.
The PARKE-DAVIS Pharmaceutical Research Division, Warner-Lambert Company, seeks a self-motivated Scientist to conduct studies on Herpes Simplex type 1. This research will investigate selected viral gene expression and protein functionality, and perform mutational analysis for functional domain identification. The research goal is to examine various states of HSV-1 infection for the presence and function of selected viral proteins as well as their interactions with host cellular factors.

Required are a Ph.D. in Molecular Virology, Biochemistry. Microbiology or a related discipline and experience with the fundamental methods of molecular biology. Experience with HSV-1 and protein biochemistry very desirable.

Qualified individuals should send their resume and list of three references to PARKE-DAVIS, Human Resources, Box JD-82, PARKE-DAVIS, 2800 Plymouth Road, Ann Arbor, MI 48105. "Smoke-Free Work Environment"

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Research Fellow/Sr. Research Assistant

The Lindsley F. Kimball Research Institute, a division of the New York Blood Center, has a challenging opportunity available for a Ph.D. Research Fellow or MS degree Sr. Research Assistant in Biochemistry or Molecular Biology. Working under the supervision of the laboratory head in our Cell Biochemistry Lab, you should have experience and publication record demonstrating innovative and independent research accomplishments. Experience in techniques of enzymology (enzyme purification and characterization, kinetic studies, protein chemistry) and Molecular Biology required. (DNA library construction) cloning, screening and mutagenesis necessary.

We offer a competitive salary and a comprehensive benefit package. Send CV to: Manager of Human Resources/LFK, The New York Blood Center, 150 Amsterdam Ave, New York, NY 10023. Equal opportunity employer m/f/dv.

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Symposium on Molecular Evolution of Physiological Processes

47th Annual Meeting of the Society of General Physiologists

SEPTMBER 8-11, 1993

MARINE BIOLOGICAL LABORATORY, WOODS HOLE, MA

Major Sessions: Titles and Participants

Interpretation of Diversity: Homology Testing and Generation of Phylogenetic Trees
William Fitch, Ford Doolittle, David Hillis, Mitchell Sogin

Genome Organization and Generation of Diversity
Allan Spradling, William McGinnis, John Schimenti, Peter Parham, David Helfman

Evolution of the Actin and Myosin Families of Cytoskeletal Proteins
Thomas Pollard, Everett Bandman, Holly Goodson, Leslie Leinwand, Eric Fyrberg

Structure, Function, and Evolution of Plasma Membrane Proteins
Robert Guy, Stephen Heinemann, Ching Kung, Meredith Applebury, Thomas Wilkie

Workshop: Demonstrations of Tree-Building Programs
David Swofford, Wayne Maddison

Keynote Addresses
Leroy Hood, Marc Kirschner

For more information please contact:
Society of General Physiologists
P.O. Box 257A, Woods Hole, MA 02543 USA
Telephone: (508) 540-6719; Fax (508) 540-0155
IN VITRO MUTAGENESIS AND DNA SEQUENCING
June 6-June 19, 1993

This course features the use of randomly mutagenized oligonucleotides to produce "complete" mutant libraries. Streamlined manual DNA sequencing methods necessary for the execution of saturation mutagenesis projects will be emphasized. Use of these rapid sequencing methods in large genomic sequencing projects will also be covered. Students will be introduced to a variety of computer software for the analysis of biological sequence data. Participants who wish to bring materials related to their own research interests should consult the instructors in advance. Tuition is $2,150. Deadline-April 26, 1993.

Instructors:
Daniel Loeb, Ph.D., Univ. of Wisconsin, Clyde Hutchison, Ph.D., UNC-CH

TRANSCRIPTION July 18-July 31, 1993

Students will be introduced to mammalian and invertebrate transcription systems. Specific techniques include: nuclear run-on analysis, preparation of transcription extracts, DNA footprinting and mobility shifts, and in vitro RNA processing. Tuition is $2,150. Deadline-May 17, 1993.

Instructors:
William Marzluff, Ph.D., UNC-CH, Jane Azizkhan, Ph.D., UNC-CH, Ryszard Kol, Ph.D., UNC-CH, David H. Price, Ph.D., University of Iowa

CAROLINA WORKSHOPS are a series of intensive hands-on laboratory courses designed to teach cutting edge methods. Many applicants to the Carolina Workshops already hold the M.D. or Ph.D. degree. Our courses are heavy on hands-on contact with the protocols, light on lectures concerning the basics. Applicants unfamiliar with the theoretical basis of molecular biology may profit from reading Principles of Gene Manipulation (Fourth Edition) by R.W. Old & S.B. Primrose, Blackwell Scientific Publications, 1990. Ten years experience running these courses indicates that both students with and without any prior hands-on experience with molecular techniques find these courses useful. Experienced students benefit from in-depth interaction with the instructors; novices learn the realities behind the innocent looking protocols. To apply, send a curriculum vitae and a brief letter describing your research interests and their relevance to the Workshop for which you apply. Please indicate your complete mailing address and telephone/fax number. Full consideration will be given to applications received by the indicated deadlines.

Upcoming Courses:
Introduction To Nucleic Acid Techniques - October 1993
Light Microscopy for the Biomedical Sciences - Winter 1994
Making Monoclonal Antibodies - Spring 1994

For further information or to apply, contact:
Dr. Wayne Lillaker, Facility Director
Program in Molecular Biology & Biotechnology
402 Taylor Hall CB 7100 S
Chapel Hill, North Carolina 27599-7100
TELEPHONE (919) 966-1730, FAX (919) 966-6821

Molecular Biosystems, Inc. (MBI), a world leader in the development of contrast agents for medical imaging, including ultrasound, MRI and CT, has an exceptional career opportunity in our Chemistry Department.

Sr. Scientist

The successful candidate will be responsible for the design, development and execution of ligand compound development and supervise a team of organic and inorganic chemists. Experience in ligand compound development is a necessary qualification. A Ph.D. in Synthetic Organic Chemistry, a minimum of 10 years experience beyond Ph.D. in synthetic organic chemistry preferably within the pharmaceutical industry, and the ability to interact effectively with scientific and management teams.

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GLIATECH

SCIENTISTS
ALZHEIMER'S DISEASE RESEARCH

GliaTech, Inc., a growing pharmaceutical company dedicated to understanding and utilizing the unique properties of neuronal cells in treating nervous system disorders, has several openings for research scientists within our expanding Alzheimer's Disease research program. These positions are at the Ph.D., M.S. and B.S. levels, and scientists with training in the areas of molecular neuroscience, pharmacology, biochemistry, or cell biology are encouraged to apply. Prior research in the neurological sciences is highly desirable, but outstanding candidates from other disciplines will be considered. Applicants should be highly motivated investigators who can integrate into a vigorous research team dedicated to the development of therapeutics to slow the progression of Alzheimer's disease.

GliaTech is located in suburban Cleveland in close proximity to Case Western Reserve University and the Cleveland Clinic. Its collaborative interactions with scientists and clinicians at these and other academic institutions provides an exceptional intellectual environment. GliaTech offers a competitive salary and benefits package, and our location allows access to affordable housing as well as an array of cultural and sports activities. Qualified candidates are encouraged to submit their curriculum vitae to: GliaTech Inc., Corporate Recruiting, 23420 Commerce Park Rd., Cleveland, OH 44122.

St. Jude Children's Research Hospital
Department of Biochemistry

Postdoctoral Fellowships

The Biochemistry Department offers a highly interactive environment for postdoctoral research with a focus on the molecular and cellular biology of signal transduction. The research programs within the Department offer recent Ph.D. or M.D. graduates comprehensive training in a large variety of contemporary molecular and biochemical techniques. Laboratory facilities are housed in a new 220,000 sq. ft. research facility. SJCRH offers competitive salaries and fringe benefits. Current research programs within the Department include:

- George Cheung: Regulatory properties and biological functions of calmodulin, Ca2+-regulated enzymes and other Ca2+-binding proteins.
- John Cleveland: Myc oncogene control of cell cycle progression, apoptosis and transcription.
- James Ibanez: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.
- Suzanne Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
- Charles Rock: Role of phospholipid-derived second messengers in growth factor signal transduction.
- Robert Rooney: Mechanisms of transcription factor regulation by the EIA oncogene.
- Gerard Zambetti: Function of wild-type and mutant p53 in tumor suppression and oncogenesis.

Applicants should submit a brief statement of research interests, curriculum vitae and the names of three references to:

Biochemistry Departmental Fellowships
St. Jude Children's Research Hospital
352 North Lauderdale • Memphis, TN 38101
An Equal Opportunity/Affirmative Action Employer

NATIONAL UNIVERSITY OF SINGAPORE

FACULTY OF MEDICINE

Applications are invited for faculty appointments in one of the following departments:

DEPARTMENT OF BIOCHEMISTRY

Candidates should have either a Ph.D degree or an approved basic medical degree with a recognized higher academic/professional qualifications. Preference will be given to candidates with teaching and research experience. A proven track record of high calibre, self-directed research in all aspects of eukaryotic (mammalian) molecular and cell biology will be a decided advantage.

DEPARTMENT OF PHYSIOLOGY

Candidates should have an M.D or Ph.D degree or equivalent and have at least two years of postdoctoral research experience in one of the following areas:

- (a) aspects of cellular and molecular physiology related to the regulation of cell growth and differentiation
- (b) mechanism of action of hormones and hormone antagonists
- (c) cancer cell biology

The appointee will be expected to develop an independent research programme in his/her own area of interest and be able to teach at undergraduate and postgraduate levels.

Gross annual emoluments range as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary</th>
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<tbody>
<tr>
<td>Lecturer</td>
<td>S$50,390 - 64,200</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>S$58,680 - 100,310</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>S$88,650 - 122,870</td>
</tr>
</tbody>
</table>

(US$1.00 = S$1.63 approximately)

The commencing salary will depend on the candidate's qualifications, experience and the level of appointment offered. In addition, appointees who possess and approved basic medical degree and a recognized higher academic/professional qualifications will receive a Fixed Specialist Allowance (FSA), the annual rates for which are as follows:

<table>
<thead>
<tr>
<th>Position</th>
<th>Salary</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecturer</td>
<td>S$6,000/9,000</td>
</tr>
<tr>
<td>Senior Lecturer</td>
<td>S$15,000</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>S$21,000</td>
</tr>
</tbody>
</table>

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, subsidized housing, 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 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, Televizion, 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
Tel: 202-751-0311

Enquiries may also be sent through BITNET to: PERL/IMMJ @ NUS3090, or through Telefax: (65) 7783948
POSITIONS OPEN

Quartz Manufacturer Northeast Ohio is seeking a: SENIOR RESEARCH ENGINEER to define, verify and implement process improvements to reduce bulk inclusions and lower the dislocation density in single crystal cultured quartz to the levels of world class suppliers. Assist in development relationship with technical and production facilities in Russia, which are of major importance, and just now becoming available for association with U.S. businesses. Longer term—Develop, test, and implement breakthrough ideas to advance the quality and lower production cost of single crystal quartz beyond present limits. Investigate and possibly develop the production of other piezoelectric optical materials, particularly those produced by hydrothermal methods. Ph.D. in Geology with Crystallography as a specialty and at least four years of experience in job described; salary $52,500 per year.

RESEARCH ENGINEER to define, verify, and implement quartz growing process modifications focusing on the application of computer monitoring and control of the process to obtain precision not now available using manual methods. Select, on the basis of experience, and access relevant Russian language technical publications and translate into English. Use advanced computer modeling techniques to model various aspects of the quartz crystal growth process. For example, growth rate prediction as a function of several process control variables. Master’s in Geology with Crystallography as a specialty. Training in C Language computer programming required. Three years of experience in job described; salary $39,000 per year.

Each engineer must speak, read and write Russian. Spend about 10% of time traveling in Russia. 40 hours per week. Must have proof of legal authority to work indefinitely in the United States. Send resume in duplicate to: R. Leckler, J.O. #12009992, Ohio Bureau of Employment, P.O. Box 1618, Columbus, OH 43216. NO CALLS, PLEASE.


POSITIONS OPEN

POSTDOCTORAL/RESEARCH ASSOCIATE position available immediately for molecular and biochemical studies of the functions of the iron-binding defense protein, lactoferrin. Join an active and well-equipped laboratory in a rapidly expanding, highly collegial, research department. Excellent opportunity for research accomplishment and personal advancement. Molecular biology experience essential. Send complete curriculum vitae to: Dr. Philip Furmanaski, Department of Biology, New York University, 1009 Main Building, New York, NY 10003. FAX: 212-995-4015. NYU encourages applications from women and members of minority groups.

ASSOCIATE RESEARCH SCIENTIST. Conducts medical research in the Department of Neurosurgery. Will be responsible for the development, design, and production of various devices used in different types of cryosurgical procedures. Analyzes data to determine feasibility of device proposal. Prepares and directs preparation of devices. Plan and develops experimental test programs. The design of such intracavity medical devices, used in ultrasound guided cryosurgery, requires a combination of medical knowledge and engineering ability. Forty hours per week; 9:00 a.m. to 5:00 p.m.; $36,000 per year. Must have M.D. and 2 years of Residency in Radiology. Experience must reflect research in Ultrasound Guided Cryosurgery. Send resume to: Dr. Gary Onik, M.D., Department of Cryomedicine, 14th Floor South Tower, Allegheny General Hospital, Pittsburgh, PA 15212.

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**Program Announcement**

**International Science Foundation**

**Travel Grant Program**

The International Science Foundation announces a program to support travel for scientists from the CIS and the Baltic States to attend professional conferences. Scientists wishing to travel on this program must be actively pursuing research in the fundamental natural sciences and must be formally invited to present papers or poster communication at the conference. Travel grants will include airfare and full or partial reimbursement of subsistence expenses. Applications will be accepted from conferences organizers and not from scientists wishing to travel. For more information about program guidelines please contact:

**The International Science Foundation**
455 First Avenue
New York, NY 10016
Tel: (212) 576-8450
Fax: (212) 576-8457

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**Biopharmaceutical Leader**

**Somatogen**, a biopharmaceutical company currently engaged in the Phase I Human Clinical Trials of a recombinant human hemoglobin, has the following exciting opportunities:

**Senior Scientist/Scientist III**

Responsibilities include directing a group working in the area of Eukaryotic/Viral Transcription Factors. Requires a Ph.D. with at least 5 years experience beyond post-doctoral work. The successful candidate will be an active laboratory scientist with a well established record in the field. Dept. 123.

**Senior Research Associate**

Responsibilities include analytical method development and validation using HPLC, AA and NIR for analysis of trace contaminants in product/process samples. Requires a BS/MS in Chemistry with a minimum of 5 years experience developing methods for determination of organic and inorganic substances in a protein matrix. GMP experience is desirable. Dept. 512.

**Senior Research Associate**

Responsibilities include synthesis and purification of peptides and determination of peptide activity in protein based assays. Requires an MS/BS in Chemistry with a minimum of 5 years experience in peptide synthesis and HPLC of synthetic peptides. Familiarity with peptide analysis and interpretation of analytical data are highly desirable. Dept. 511.

A competitive salary and relocation and benefits package complement these offers. Please send resume indicating Dept. number to: SOMATOGON, 5797 Central Ave., Boulder, CO 80301. EOE.

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New Lab Service Department, Rm. 830, 1333 H Street, N.W., Washington, DC 20005

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**California Institute of Technology**

**The O.K. Earl Postdoctoral Fellowship in Earth and Planetary Sciences**

The California Institute of Technology announces a fellowship award from a fund endowed by ORRIN K. EARL, JR. This fellowship carries an annual stipend of $34,000 and offers a research expense fund of $1,000 per year and one-way travel to Pasadena. The duration of the appointment will normally be for two years, contingent upon good progress in the first year, and beginning with the 1993-94 academic year. Fellows are eligible to participate in Caltech's health and dental program.

The O.K. Earl Postdoctoral Fellowship has been established to support the research of scientists, typically within two years of receipt of the Ph.D. It is the intent of this program to identify and support innovative and creative work in the earth and planetary sciences, with particular emphasis on interdisciplinary work. Applicants with training in physics, chemistry, biology or computer sciences are urged to apply. The Caltech faculty is currently active in Geology, Geochemistry, Geobiology, Petrology, Geophysics, and Atmospheric and Planetary Sciences. It is expected that the fellowship holder will be hosted by a Division professor who will contribute to the fellowship support both financially and by providing intellectual guidance.

Application forms may be obtained by writing to Prof. D.J. Stevenson, Chairman, Division of Geological and Planetary Sciences, Mail Code 170-25, California Institute of Technology, Pasadena, California 91125.

**COMPLETED APPLICATIONS WITH REFERENCES SHOULD ARRIVE AT CALTECH BY FRIDAY, MAY 21, 1993.**

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest. Caltech is an Affirmative Action/Equal Opportunity Employer. Women, minorities, veterans and disabled persons are encouraged to apply.
POSTDOCTORAL POSITION available at Brigham and Women's Hospital/Harvard Medical School to study the molecular biology of protocadherin enzymes and their role in macrophage differentiation and function. Experience in molecular biology, transgenic models, or homologous recombination required. Apply to Dr. Harold G. Oettgen, Division of Medical Genetics, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. An Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE

Available immediately to study the role of the tyrosine kinase substrate paxillin in intracellular signaling and cytoskeletal organization. Ph.D. or equivalent degree required. Experience in cell biology and/or molecular biology techniques essential. A background in cell adhesion desirable. Send curriculum vitae, statements of research interest, and three letters of recommendation to: Dr. David Turner, Department of Anatomy and Cell Biology, SUNY Health Science Center, 766 Irving Avenue, Syracuse, NY 13210. Curricula vitae will be accepted until position is filled. An Affirmative Action/Equal Employment Opportunity/Airline Regional Employer.

POSTGRADUATE RESEARCHER (PGR) with experience in molecular biology and retrovirology or herpesvirology to conduct research in AIDS pathogenesis and the role of viral proteins. Positions available immediately for at least 2 years. Salary range based on University of California policy. Send curriculum vitae with a list of three references to: Dr. Stephen A. Stettler, M.D., Professor, Department of Pediatrics & Research for Molecular Genetics, UCSD, 9500 Gilman Drive, #0672, La Jolla, CA 92039. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL RESEARCH ASSOCIATE. Full-time, fixed-term position participating in evaluating mechanisms for the biologic control of weed seedbank. Required: Ph.D. in soil science, plant pathology or microbiology with experience handling fungi, protein separation, enzyme analysis. Closing date: April 21, 2003. Contact: Dr. Michael Moreland, Director, Forest Products, Oregon State University, Corvallis, OR 97331-7402, USA. OSU is an Affirmative Action/Equal Employment Opportunity Employer responsive to dual-career needs.

RESEARCH ASSOCIATE position is available immediately to conduct experiments on the biodegradation of aromatic hydrocarbons by microorganisms. Requires an M.S. degree in microbiology or biochemistry and further experience in metabolic pathway elucidation, protein biochemistry, gene cloning and expression or DNA library construction/screening. The selected candidate will work at the U.S. Environmental Protection Agency Environmental Research Laboratory at Gulf Breeze, Florida, in collaboration with Dr. Richard Eaton. Application packets and list of three references should be submitted to: Dr. Carl E. Cermigia, Division of Microbiology (HFT-250), National Center for Toxicological Research, 901 NCTR Road, Jefferson, AR 72079, Telephone: 501-543-7341.

RESEARCH ASSOCIATE for university in central Ohio. Design, conducts and analyzes experiments with Arabidopsis thaliana genetic stocks; conducts the growth (in the greenhouse and growth chamber) and preservation of seeds of thousands of mutant genetic lines; observes and analyzes characteristics of individual stocks to ensure purity and quality, distributes seed stocks in response to requests from international research community; maintains and updates a computer database of a comprehensive and interactive database of information on Arabidopsis plants; writes and edits publications, including a catalog of stocks, in collaboration with other personnel; supervises undergraduates. No experience required in above duties but applicants will qualify with M.S. in Agronomy and 2 years of experience in seed technology industry, including inclusion of storage technology; in design, conduct and analysis of experiments with plant genetic stocks; in growing greenhouse plants; in seed distribution and seed storage; and in supervision of at least 2 undergraduate students. Forty hours per week, 8:00 a.m. to 5:00 p.m. Monday to Friday, $25,000 per year. Send resume to: Office of Personnel, The Ohio State University, Ohio State University, Columbus, OH 43210.

RESEARCH ASSOCIATE position is available at Harvard Medical School to study the molecular biology of protocadherin enzymes and their role in macrophage differentiation and function. Experience in molecular biology, transgenic models, or homologous recombination required. Apply to Dr. Harold G. Oettgen, Division of Medical Genetics, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115. An Equal Opportunity Employer.

RESEARCH ASSOCIATE position is available at the University of California at San Diego to conduct research in the field of neural crest development and cell migration. The project involves the study of migration of neural crest cells during development of the central nervous system and the peripheral nervous system. The successful candidate will carry out experiments using cell culture and in vivo techniques. The research will be conducted in the laboratory of Dr. L. A. Johnson, 6305 Ivy Lane, Puzzle Division, USDA, ARS, Bell Green, MD 20770. Send curriculum vitae, names and addresses of references to: L. A. Johnson, 6305 Ivy Lane, Puzzle Division, USDA, ARS, Bell Green, MD 20770. Send curriculum vitae, transcripts, statement of research interests, and three letters of reference to: L. A. Johnson, 6305 Ivy Lane, Puzzle Division, USDA, ARS, Bell Green, MD 20770. Specific questions should be directed to: L. A. Johnson, Telephone: 301-504-8835. USDA, ARS is an Equal Opportunity/Affirmative Action Employer. Applications for this announcement were postmarked by April 12, 1993, and marked No. 38005.

RESEARCH ASSOCIATE position available at the University of Michigan Medical School to conduct research in the field of neural crest development and cell migration. The project involves the study of migration of neural crest cells during development of the central nervous system and the peripheral nervous system. The successful candidate will carry out experiments using cell culture and in vivo techniques. The research will be conducted in the laboratory of Dr. L. A. Johnson, 6305 Ivy Lane, Puzzle Division, USDA, ARS, Bell Green, MD 20770. Send curriculum vitae, names and addresses of references to: L. A. Johnson, 6305 Ivy Lane, Puzzle Division, USDA, ARS, Bell Green, MD 20770. Specific questions should be directed to: L. A. Johnson, Telephone: 301-504-8835. USDA, ARS is an Equal Opportunity/Affirmative Action Employer. Applications for this announcement were postmarked by April 12, 1993, and marked No. 38005.

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**RESEARCH AND DEVELOPMENT**

DIRECTORS and TEAM LEADERS. We are looking for highly motivated individuals to head the Molecular Biology, Immunology and Cell Culture departments and to direct our innovative vaccine and immunotherapeutic programs. Qualifications include an Ph.D. or M.D. with 3 or more years post-doctoral and/or industry experience.

MOLEcular BIOLOGY Broad experience with expression vector technology, including E. coli, mammalian or baculovirus systems. Applicants should have a strong foundation in molecular biology and related techniques including cloning, PCR technology, and oligonucleotide synthesis.

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CELL CULTURE Experience in all aspects of insect cell culture and the baculovirus expression vector system. The position entails leading a strong research effort to understand and optimize the production of recombinant proteins in insect cells and to develop improved cell lines and media formulations.

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**University of California, Santa Barbara**

**Dean of School of Environmental Science and Management**

Search Reopened

UCSD seeks a distinguished scholar for the position of Dean for a new School of Environmental Science and Management, scheduled to open in Fall 1994. Will oversee all academic, instructional, and administrative activities including the long-range planning and program development for the school. Will play an instrumental role in the recruitment and selection of academic personnel and the development of an interdisciplinary, research-oriented curriculum which provides professional training in science and management.

The School will emphasize diagnosis, resolution and management of environmental problems on all scales. Its curriculum will serve students with backgrounds crossing traditional academic boundaries, ranging from the natural sciences and engineering through economics and the social sciences. Degrees offered will include a Master's with emphasis in environmental science or management, with applied training in both; and a Ph.D. with three emphases: earth system studies, applied ecology, and environmental management.

The School will have a full-time faculty of 15 and 5 joint appointments. Appropriate technical, computational and administrative support will be provided.

Deadline of May 3, 1993, or open until filled.

Send current vita, representative publications, and names of references to:

Dean Search Committee
School of Environmental Science and Management
Office of Academic Personnel, Cheadle Hall 5109
University of California
Santa Barbara, CA 93106-2030

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**RESEARCH INVESTIGATORS**

**Seattle**

The Bristol-Myers Squibb Pharmaceutical Research Institute in Seattle performs research dedicated to pursuing novel approaches to the development of therapeutic products in the areas of immunology, infectious diseases and cancer. Currently, we have the following positions available:

**VIROLOGY**

This first position will participate and establish research programs aimed at: the understanding of the immunopathogenesis of HIV/SIV infection in humans and relevant primate models; the characterization of cellular immune responses to HIV/SIV antigens; and the development of novel approaches for treatment of HIV infection and diseases. Candidate must possess a PhD in immunology or equivalent. Previous experience in characterizing lymphoproliferative and cytotoxic T-cell responses to HIV/SIV antigens highly desirable. (REF: SHL)

We also have a Postdoctoral assignment involving evaluation of the effect of infection with HIV-1 on CD4+ T-lymphocyte function. We seek a candidate well versed in T-cell biology willing to work in BL-3 facility. Experimental skills desired include:

- Nucleic acid analysis (Southern blot, Northern blot, PCR)
- Protein analysis (Western blot, immunoprecipitation)
- Tissue culture
- Flow cytometry
- Lymphocyte proliferation assays
- Lymphokine secretion assays

(REF: OKH)

**BIOLOGICAL PROCESS RESEARCH**

Develop purification protocols for recombinant proteins and monoclonal antibodies and work with research groups to define structure and activity of purified proteins. The successful candidate will have the ability to interact in a collaborative environment with scientists responsible for expression, fermentation, analysis and formulation. Must have PhD in Biochemistry or related field with minimum of two years postdoctoral experience. (REF: LSP)

We offer a creative research environment, competitive salaries, and excellent benefit package and relocation assistance. Our facility offers open and well-equipped laboratories overlooking beautiful Puget Sound and the Olympic Mountains from our downtown site. Please forward your resume to: Bristol-Myers Squibb, Human Resources Dept., 3995 First Avenue, Seattle, WA 98121. Please note the position reference code. Equal Opportunity Employer, M/F/D/V.

Bristol-Myers Squibb Company
POSITIONS OPEN

SHAMAN PHARMACEUTICALS, INC.

VIROLOGIST, Project Leader: The Biological Sciences Laboratory of this innovative San Francisco Bay Area natural products company has immediate need for an interactive and creative virologist who will provide leadership in the expanding discovery programs for the development of novel antiviral pharmaceuticals. Responsibilities include expanding the company's antiviral screening program, developing animal models for medically significant viral diseases, handling regulatory questions pertaining to virology, and leading two established laboratory units. Desirable candidates will have 5 to 10 years of industrial experience, a record of leadership in antiviral R&D, familiarity with animal models of viral disease and the molecular biology of viruses, and knowledge of the regulatory issues in antiviral drug development.

CNS PHARMACOLOGIST, Project Leader: The Biological Sciences Laboratory has immediate need for a productive CNS pharmacologist with industrial experience to build and lead a pharmacology program for the development of novel CNS-active agents (especially anxiolytics and antidepressants). This position is ideal for someone who derives from natural sources. Responsibilities include establishing in vivo tests for screening of plant extracts and pure compounds; establishing animal and cell models for confirming pharmacological activity; preparing internal reports for IND and NDA submissions, and staffing and supervising group of 3 to 4 scientists. Candidates should have a minimum of 3 to 4 years of industrial experience, demonstrated supervisory ability, and a record of leadership in the area of CNS pharmacology.

Qualified candidates for either position should submit résumé and cover letter by April 10, 1993, to: Jurgen Weber, Ph.D., c/o BioQuest, Inc., 100 Spear Street, Suite 1125, San Francisco, CA 94105-1522. SHAMAN PHARMACEUTICALS, INC. is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

ENVIRONMENTAL RESOURCES MANAGER.

Salary $33,000 to $36,000, depending on qualifications. Administrative work directing the activities of the Environmental Resources Division. Requires: Master's degree in Ecology, or related field, three years of experience in design, conduct and direction of scientific research. APPLY TO: City of Cape Coral, P.O. Box 150027, FL 33995-0027. Equal Opportunity/Affirmative Action Employer.


Planning and design firm in Boston seeking a MAINE BIOLOGIST interested in the development of interpretive programs for public aquariums. Must have good communication skills and demonstrated experience in public outreach or educational programs. Will consider candidates seeking full- or part-time employment. Send résumé, including salary requirements to: Box 28, SCIENCE, 1333 H Street, NW, Washington, DC 20005.

POPULATION/COMMUNITY ECOLOGIST


POSITIONS OPEN

TEST DEVELOPER

Test Development—Biological Sciences. Educational Testing Service, the nation's leading educational and measurement organization, seeks an education professional to research, develop and critically review scientific test concepts. Specific responsibilities will include preparing all procedural steps related to the test development process, including writing test questions, reviewing questions written by colleagues and analyzing overall test content for accuracy, clarity and potential overlapping of content. Diverse duties will range across the entire test development life cycle from test inception through production and post-administration activities. Additionally, you will assist senior staff in coordinating program/project activities, including preparing proposals, contracts, planning memos and related surveys and studies.

Position requires a Master's degree in the Biological Sciences (or the equivalent combination of education and experience), plus at least 4 years of related experience in teaching and/or testing. A background in measurement and statistics is desirable. Strong analytical and interpersonal skills are a must.

ETS offers a stimulating environment for growth and achievement plus outstanding benefits and salary commensurate with experience. For confidential consideration, please send your résumé, complete with salary requirements, to: SANDY DeANGELO, EDUCATIONAL TESTING SERVICE, Rosedale Road, Princeton, NJ 08541. Equal Opportunity Employer. Women and minorities are encouraged to apply.

MEETINGS

PREDICTING CHEMICAL CARCINOGENESIS IN RODENTS

An International Workshop will be held May 24 & 25, 1993, at the National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, USA. The Workshop will assess the strengths and limitations of a variety of different predictive methods, examine areas of consensus in identifying carcinogens, and consider the interplay between predictive carcinogenicity and mechanistic studies. Enrollment is limited. Those desiring additional information or interested in attending the Workshop should contact: Dr. I. T. Wachsmann, NIEHS, MD B3-09, P.O. Box 12233, Research Triangle Park, NC 27709 or FAX: (919) 541-1460 by April 30, 1993.

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