**POSITIONS OPEN**

**ASSISTANT PROFESSOR, FOREST SOILS.**
Full-time, 12-month, tenure-track position. Associate professor appointment available for the faculty of the Department of Forest Science. Applicants must have a Ph.D. by the time of appointment, a strong background in soil science, and interest in teaching and research on various aspects of soil processes. Responsibilities include teaching an undergradu- cate course in basic soils, graduate courses in a specialty, and development of a graduate research program. The successful candidate will also perform research to obtain extramural funding. Salary commensurate with research funds through grants. Position is available 1 July 1991. Closing date for applications is 1 March 1991. Address applications to: Dr. Michael C. Brown, Chair, Department of Forest Science,оч., University of Washington, Seattle, WA 98195. Telephone: 206-685-9053. The University of Washington is an Equal Opportunity/Affirmative Action Employer. Qualified women and minorities are urged to apply.

**BIOLOGY**

Tenure-track position beginning fall of 1991 at the rank of ASSISTANT PROFESSOR. Responsibilities include teaching microbiology, molecular genetics, cell physiology, and embryology. Especially important is a strong interest in integrated science courses which are part of the college’s new general education program. The successful candidate also will be expected to develop a research program. Candidates should submit a letter of interest, curricu- lum vitae, summary of current research, research require- ments, and names and addresses of three references. Special consideration will be given to those with a background in areas of cell physiology, and embryology. Applications from women and minorities are urged.

**DEVELOPMENTAL BIOLOGIST.** The Depart- ment of Biology, Loyola University of Chicago, invites applications for a tenure-track position at the level of ASSISTANT PROFESSOR to begin 1 September 1991. Candidates studying any animal or plant system will be considered. Responsibilities include teaching at the under- graduate and graduate levels, development of an active research program, and the supervision of graduate student research. Ph.D. required; postdoctoral research and prior teaching experience desirable. Applicants should send complete curriculum vitae, a statement of research and teaching interests, and three letters of recommendation by 15 January 1991 to: Dr. Warren R. Jones, Chair, Department of Biological Sciences, Loyola University of Chicago, 5625 North Sheridan Road, Chicago, IL 60626. Loyola University of Chicago is an Affirmative Action/Equal Employment Opportunity Employer.

**CHRISTOPHER NEWPORT COLLEGE**

**BIOLOGY, ASSISTANT PROFESSOR**

The Department of Biology, Chemistry, and Environ- mental Science is seeking a qualified vertebrate zoologist for a tenure-track teaching position beginning in the fall of 1991. Applicants must hold a master’s degree in biology. A Ph.D. is required for appointment as assistant professor; candidates without the Ph.D. but with realistic prospects of completing the Ph.D. in the near future will be considered for appointment at the rank of instruc- tor. Teaching experience at the college level in one or more of the subject areas is desired. Teaching assign- ments will be primarily in comparative animal physiology and human anatomy and physiology with some duties in general biology. The successful applicant must show evidence of excellence in teaching and active scholarship. Salary will be commensurate with experience within the guidelines set by the State of Virginia. Applicants must send a letter of application, curriculum vitae, and grad- uate transcripts and at least three letters of recommendation to: Dr. David B. Byers, Chair, Biology Search Committee, Christopher Newport College, 50 Shoe Lane, Newport News, VA 23606–2998. Completed files of applications must be received by 15 January 1991 and the position will remain open until filled. Christopher Newport College hires only U.S. citizens and aliens lawfully authorized to work in the United States and is committed to a vigorous Affirmative Action/Equal Opportu- nity program. Applications from women and minorities are especially encouraged. An Equal Opportunity/Affirmative Action Employer.

**PERSONNEL PLACEMENT**

**POSITIONS OPEN**

The Division of Urology, University of California, Los Angeles (UCLA) School of Medicine, is recruiting a nephrologist. Applicants must have a Ph.D. in the field of Medical Sciences. Applicants must be Board-certified or -eligible and skilled in teaching, research, and clinical urology. The successful candidate will join the faculty with the VA Medical Center, West Los Angeles. Experience in molecular biology research related to prostate disease is desired. UCLA and its affiliated institutions are committed to the principles of Equal Opportunity and Affirmative Action. Applicants must submit curriculum vitae to: Chief, Divi- sion of Urology, UCLA School of Medicine, Los Angeles, CA 90024–1738.

**SYSTEMATIC ZOOLOGIST, ASSISTANT PROFESSOR**

The Department of Biology, University of California, Irvine, invites applications for a tenure-track position in Systematics. The successful candidate will teach courses in systematic entomology to graduate students; advise and supervise graduate students; and develop an independent research program. The successful candidate will have a Ph.D. and a postdoctoral training for a minimum of two years. The position is available 1 July 1991. Applications should be submitted to: Dr. Stephen Klemann, Chair, Department of Biology, University of California, Irvine, 8451 Biological Sciences, Irvine, CA 92717. Application materials must include a letter of application, curriculum vitae, and three letters of recommendation. The University of California is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are strongly encouraged to apply.

**PLANT PHYSIOLOGY**

The Department of Biology of Rollins College invites applications for a tenure-track assistant PROFES- SORSHIP in plant physiology-plant cellular/molecular biology to begin fall 1991. Candidate will teach under- graduate courses in plant growth and development, and participation in assigned college and university curriculums. The successful candidate will be expected to develop a research program, supervise undergraduate research, and serve on various departmental and college committees. The position is available 1 September 1991. Applicants must have a terminal degree in plant cellular and molecular biology and must be able to receive AABEVILLE-Many awards. Salary and benefits are competitive. Application materials must include a letter of application, curriculum vitae, and three letters of recommenda- tion to: Dr. Stephen Klemann, Chair, Department of Biology, Rollins College, Winter Park, FL 32789-5191. Applications must be postmarked by 15 January 1991.

**NEPHROLOGIST.** Opening for an academic ne- phrologist at the ASSISTANT PROFESSOR level, with interest in teaching and research, to join the Division of Nephrology and the Nephrology Research and Training Center at University of Alabama at Bir- mingham (UAB). The successful candidate will have demonstrated interest and experience in the areas of genetic disease, relevant to homeostasis of electrolytes and also be licensed/eligible to practice medicine in Alabama. Send curriculum vitae and three letters of reference to: Dr. David G. Warnock, M.D., Director, Division of Nephrology and the Nephrology Research and Train- ing Center, University of Alabama at Birmingham, University Station, Birmingham, AL 35294. UAB is an Affirmative Action/Equal Employment Opportunity Employer.

**ASSISTANT PROFESSOR**

**CELL BIOLOGY**

**UNIVERSITY OF CALIFORNIA—RIVERSIDE**

Applications are invited for a tenure-track faculty position, starting 1 July 1991, in cell biology at the assistant professor level in the Department of Biology, University of California, Riverside. Areas of particular research interest include cell-cell interactions and signaling, nuclear proteins, and development. Salary will be commensurate with experience within the guidelines set by the State of California. Applicants must send a letter of application, curriculum vitae, and three letters of recommendation to: Dr. Steve Bell, Chair, Cell Biology Search Committee, Department of Biology, University of California, Riverside, CA 92521. Applications should be received by 8 February 1991 to be assured consideration. The University of California is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are strongly encouraged to apply.
ASSISTANT PROFESSOR

The Department of Biology at Westminster College is seeking a tenure-track assistant professor with a specialty in invertebrate zoology, broad background in molecular biological sciences. Applicants should have a strong commitment to excellence in teaching in a liberal arts environment. Applicants should be committed to developing an outstanding record in undergraduate teaching, which will include a course in invertebrate zoology, general biology, and introduction to biological principles (for nonmajors). Please send a statement of teaching goals, curriculum vitae, transcripts, and three letters of reference to: Dr. Douglas R. Fickes, Chair, Department of Biology, Westminster College, 501 Westminster Avenue, Fulton, MO 65251-1299. Review of applications will begin 28 January 1991 and continue until the position is filled.

Westminster College is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR/CELL BIOLOGY ASSISTANT PROFESSOR

Molecular/cell biologist. Ph.D./A.B.D. Half teaching/half research 11-month position at Earlham College. For 2 years. Supervision of student research, cooperative team teaching in introductory courses, work with minority students, and course and curricular development. Department known for curricular innovation, teaching, high proportion of majors going on to Ph.D.’s. Excellent laboratory/library facilities. Send curriculum vitae, teaching and research philosophy, and three recommendations to: Dr. William Harvey, Box 75-A, Earlham College, Richmond, IN 47374. Review begins 1 Feb 1991. Applications accepted until 20 February 1991. Earlham College is an Affirmative Action/Equal Opportunity Employer.

MEDICINAL CHEMISTRY, ASSISTANT PROFESSOR

The Department of Pharmaceutical Chemistry, University of California, San Francisco, is seeking outstanding applicants for a tenure-track vacancy in the medicinal chemistry field. A strong commitment to excellence in teaching, and to the establishment or enhancement of a research program in basic medicinal chemistry is required. Applicants should have a Ph.D. and at least one year of postdoctoral experience. Send curriculum vitae, research summary, teaching experience, three letters of recommendation, and a statement of research interests to: Dr. William F. Shaw, Box 3054, San Francisco, CA 94143-0305. The University of California is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

Applications are invited for a position as ASSISTANT PROFESSOR of oncology at the McArdle Laboratory for Cancer Research, University of Wisconsin, Madison. The successful candidate will have a Ph.D. or equivalent degree in biochemistry, molecular biology, or a related discipline, and should have a strong commitment to excellence in teaching, and to the establishment or enhancement of a research program in basic or applied molecular biology. The successful candidate will also be expected to develop a basic understanding of neoplasia and to participate in the interactive research environment of the McArdle Laboratory. Each applicant should submit curriculum vitae, list of publications, and a two- to three-page statement of research accomplishments and future objectives. Each applicant should also ask at least three persons qualified to evaluate the candidate’s research to send letters of recommendation.

Review of the application for the position will start on 1 February 1991, but applications will be accepted until the position is filled.

Send applications and letters of recommendation to: Dr. Henry C. Pietenpol, Department of Oncology, McArdle Laboratory for Cancer Research, University of Wisconsin, 1400 University Avenue, Madison, WI 53706. Equal Opportunity/Affirmative Action Employer.

BIOLGY, BALL STATE UNIVERSITY

Applications are invited for three tenure-track positions in the Department of Biology at the ASSISTANT OR ASSOCIATE PROFESSOR level. Send curriculum vitae, statement of research interests, and names of three references to: Professor M. N. Huber, Chairman, Department of Biology, Ball State University, Muncie, IN 47306. Equal Opportunity/Affirmative Action Employer.

ECOLOGY. Tenure-track position at the ASSISTANT/ASSOCIATE PROFESSOR level anticipated for the fall semester 1991. Faculty members will be expected to teach courses in ecology, field biology, and other related core courses in biology and to develop an active research program. Ph.D. required in biology with an emphasis in ecology and/or environmental studies. Send letter of application, resume, and names of three references no later than 1 February 1991 to: Chairman, Department of Biology, Indiana University Northwest, 3400 Broadway, Gary, IN 46408. An Affirmative Action/Equal Opportunity Employer.

NEUROBIOLOGIST: To develop basic science research program of pain mechanisms in the Department of Anesthesiology and Critical Care. Collaborate with active clinical programs in relief of acute and chronic pain. Must be eligible for ASSISTANT OR ASSOCIATE PROFESSOR rank at Harvard Medical School by basic science criteria. Send curriculum vitae to: Edward Lowenstein, M.D., Anesthetist-in-Chief, Department of Anesthesiology and Critical Care, Beth Israel Hospital, 800 Pierce St., Boston, MA 02114. The Beth Israel Hospital is a Major Teaching Institution of Harvard Medical School and an Equal Opportunity/Affirmative Action Employer.

EAST TENNESSEE STATE UNIVERSITY

ASSISTANT/ASSOCIATE PROFESSOR position in Department of Microbiology for Ph.D. molecular biologist. Research experience and applications in regulation of gene expression required. Department strengths: cytokines, regulation of cell function, regulation of viral genes, and microbial pathogens. Applicants must have molecular biology experience (tenure track). Send curriculum vitae, statement of research interests, and three reference letters to: Dwight L. Daniel, Chair, Department of Microbiology, James H. Quillen College of Medicine, East Tennessee State University (ETSU), Box 19, 8701 Johnson City, TN 37614. ETSU is an Equal Opportunity/Affirmative Action Employer.

DEPARTMENT OF ENTOLOGY PENNSYLVANIA STATE UNIVERSITY

Applications are invited from individuals conducting original research on genetic mechanisms governing biology and behavior of honey bees and other social insects. A tenure-track position at the ASSISTANT OR ASSOCIATE PROFESSOR level, tabled early as of March 1991. Applicants should possess the Ph.D. in genetics, entomology, or related discipline, with research emphasis on social insects and an ability to secure extramural funding. Candidate will participate in undergraduate and graduate instruction and will collaborate with extension associate responsible for honey bees. Significant start-up funds and a competitive salary are offered. Applications, including curriculum vitae, academic transcripts, statement of research interests, and names of five references, should be sent to: J. L. Frazer, Head, Box S, Department of Entomology, Pennsylvania State University, 106 Patterson Building, University Park, PA 16802. Applications should be received by 15 January 1991.
Dean
Graduate College
Wake Forest University

Wake Forest University invites applications and nominations for the position of Dean of the Graduate College. Candidates will work with Graduate Faculty at both the Medical School and the College of Arts and Sciences to continue the process of building mature graduate programs in an environment where a healthy balance between research and teaching responsibilities has been maintained.

The successful candidate should possess:

Teaching and Scholarship: The Dean must have impeccable credentials and be nationally recognized as a scholar with a record of significant accomplishment. A candidate should be a faculty member of a university with a major commitment to graduate education and research.

Leadership: The Dean would be expected to be a strong advocate for research and would be a central influence in the continued development of the graduate programs. The position would involve administration of graduate programs at both the College of Arts and Sciences and the Medical School. Effective interpersonal skills would be valuable in enhancing interactions between the two campuses.

Administration: The Dean would be expected to work with the Graduate Faculty to recruit graduate students and maintain effective communications and good working relations with other divisions of the University. A record that demonstrates significant administrative experience within a university would be viewed as highly desirable, but not an essential requirement for the position.

Candidates should submit a letter of application, curriculum vitae, the names, addresses and phone numbers of four references. Screening of applicants will begin immediately and will continue until the position is filled. Applications and nominations should be sent to:

Graduate Dean Search Committee
Department of Biochemistry
Wake Forest University Medical Center
360 South Hawthorne Road
Winston-Salem, North Carolina 27103

Wake Forest University is an affirmative action, equal opportunity employer.

ASSOCIATE VICE CHANCELLOR FOR RESEARCH AND GRADUATE STUDIES

The University of Alaska Anchorage invites applications and nominations for the position of Associate Vice Chancellor for Research and Graduate Studies. Reporting to the Provost, the Associate Vice Chancellor serves as the academic and administrative officer for research and graduate studies. UAA is a comprehensive, public institution with over 20,000 students and 25 graduate programs.

QUALIFICATIONS: A doctoral degree; Substantial administrative experience, including demonstrated successful academic grant and contract development; Extensive knowledge of current governmental grant and contract requirements; Experience working with governmental agencies, philanthropic institutions, and private sector entities in securing funding; Demonstrated commitment to excellence in research and graduate education; Demonstrated executive leadership, communication skills, vision, and integrity; Demonstrated ability to build cooperative relationships within diverse groups, both internal and external to the university; A commitment to multi-cultural diversity.

A complete position announcement will be mailed upon request. Applicants should submit a letter detailing their interest and qualifications, a resume, and names, addresses, and telephone numbers of at least five references to the following:

Dr. Michael J. Dimino, Chair
Associate Vice Chancellor Search Committee
University of Alaska Anchorage
3890 University Lake Drive
Anchorage, AK 99508
(907) 796-1921

The committee will begin to review applications on January 11, 1991, and the position will remain open until filled. July 1, 1991, is the preferred start date.

An AA/EEO institution which encourages applications from women and minorities. Candidates must be eligible for employment under the Immigration Reform and Control Act of 1986.
Affirmative control applications search scientist with specifications. Encouraged programs mechanisms. Include, SOR level. Positions send research approaches. Ability to graduate and courses is required. Applicants should send current curriculum vitae, names, addresses, and telephone numbers of at least five references; and documentation of funding and research to: Dr. Guy R. Lanza, Dean, School of Public and Allied Health, East Tennessee State University, Box 21190 A, Johnson City, TN 37614. The deadline for receiving completed applications is 15 March 1991. An Equal Opportunity/Affirmative Action Employer.

SYSTEMATIC ENTOMOLOGIST

HARVARD UNIVERSITY

The Department of Organismic and Evolutionary Biology announces a search for a tenured FULL PROFESSOR in the area of systematic entomology. We seek applicants with an outstanding record of research and teaching accomplishments, and who are prepared to assume curatorial responsibilities for part of the large and important insect collections of the Museum of Comparative Zoology, Harvard University. Curricular vitae, statement of interest, and names of three recommenders should be sent no later than 28 February 1991.

Systematic Entomology Search
Attention: E. O. Wilson Department of Organismic and Evolutionary Biology Harvard University, Cambridge, MA 02138–2902

Harvard University is an Affirmative Action/Equal Opportunity Employer.

PROFESSOR AND DEPARTMENT HEAD

The Department of Biological and Agricultural Engineering, College of Agriculture and Life Sciences, North Carolina State University, invites applications and nominations for the position of professor and head of the department. The head of the department provides academic and administrative leadership to undergraduate and graduate education, research, and extension programs in the department. The department head must work effectively with staff to establish goals and policies; recruit and evaluate faculty and staff; develop communication with faculty, staff, students, and administrators in Agriculture, Life Sciences and Engineering and the university; and manage budget and fiscal matters. Candidates for the position must have a Ph.D. in biological and agricultural engineering or a related field and a demonstrated professional achievement. Preference will be given to candidates who have administrative experience or demonstrated potential for leadership. Closing date for nominations and applications is 15 March 1991 or until a qualified applicant is secured. Submit nominations or an application that includes a letter describing interests and qualifications, a one-page summary of philosophy of administration, curriculum vitae, and names and addresses of three references to: Dr. David R. Lineback, Chairman of Search Committee, Department of Food Science, North Carolina State University, Box 7624, Raleigh, NC 27695–7624.

North Carolina State is an Affirmative Action/Equal Opportunity Employer.

ENVIRONMENTAL TOXICOLOGIST. ASSOCIATE/FULL PROFESSOR.

Academic year appointment, tenure-track, position qualifications include a Ph.D. in a discipline related to the environmental toxicology of aquatic systems. Must complement interdisciplinary program in environmental quality, and have demonstrated research program with extramural funding. Evidence of strong research and teaching accomplishment in research, teaching, and service. Please send curriculum vitae and names of five references with a statement of academic and administrative philosophy by 1 March 1991. Send applications to: Dr. Steven Jungst, Chair, Animal Ecology Search Committee, 104 Curtiss Hall, Iowa State University, Ames, IA 50011. An Affirmative Action/Equal Opportunity Employer.

BIOLOGY DEPARTMENT CHAIR

Roanoke College, a liberal arts college affiliated with the Lutheran Church, seeks an experienced person to head a biology department of six full-time faculty. Teach microbiology, cell physiology, immunology. Strong PROFFESSOR/ASSOCIATE PROFESSOR rank. Salary competitive. Excellent teaching, scholarship emphasized; active scholarship supported. Send letter of interest and curriculum vitae to: Reuben E. W. Smith, Chair, Biology Search Committee, Roanoke College, Salem, VA 24433. Telephone: 703-778-2204. An Affirmative Action/Equal Opportunity Employer.

CHAIR, DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

Applications and nominations are invited for the position of Chair of the Department of Microbiology and Immunology at the Albert Einstein College of Medicine of Yeshiva University. Candidates should have demonstrated substantial research accomplishments, an understanding of the multidisciplinary chairperson, Department of Microbiology. This department has been recently reorganized and will move to a newly renovated premises in the summer of 1991. The position offers substantial scope and potential for a distinguished leader and researcher. The medical college of Pennsylvania seeks an individual of significant stature with an established record of scientific accomplishment and ability to secure extramural funding. Applications will be accepted from individuals with expertise in any area of biochemistry. A letter of interest or nomination, curriculum vitae and names of at least three references should be sent to: Walter Rubin, M.D., Chairman, Biochemistry Search Committee, 3800 Henry Street, Philadelphia, PA 19129. An Affirmative Action/Equal Opportunity Employer.

CHAIRPERSON, DEPARTMENT OF MICROBIOLOGY AND IMMUNOLOGY

PHILADELPHIA COLLEGE OF OPHTHARMIC MEDICINE

The Philadelphia College of Osteopathic Medicine (PCOM) invites applications for the position of professor and chairperson of the Department of Microbiology. Candidates should have a Ph.D./D.O., or equivalent degree(s); strong leadership ability to direct the educational and research programs of the department; and a proven record in teaching, administration and biomedical research. Broad opportunities exist at PCOM, which is a recognized leader in osteopathic education, research, and clinical practice.

Applications will be accepted until 30 March 1991. Interested candidates should send their curriculum vitae and the names, addresses, and telephone numbers of three references to: Tage N. Krist, Ph.D., Chairman, Microbiology Search Committee Department of Anatomy Philadelphia College of Osteopathic Medicine 4150 City Avenue Philadelphia, PA 19131

PCOM is an Equal Opportunity Employer that offers a competitive salary and benefits package.
ENDOWED CHAIR

The Department of Orthopaedic Surgery at the University of Louisville requires a Biomedical Engineer to fill an Endowed Chair in Spine Research. The academic rank will be at the full professor level. The applicant should have extensive experience in biomaterial and biochemical research of the spine. A proven track record in securing federally funded grants is required. Considerable start-up funds and on-going support will be available. Interested applicants should submit their resume to:

Dr. John R. Johnson, Chairman
Department of Orthopaedic Surgery
University of Louisville School of Medicine
Louisville, Kentucky 40292

DIRECTOR
CENTER FOR SCIENCE, MATHEMATICS AND TECHNOLOGY EDUCATION

Colorado State University, Colorado's land-grant university, invites nominations and applications for the position of Director of the newly formed Center for Science, Mathematics and Technology Education (CSMATE). The Center serves as a focal point for research aimed at improvement and innovations in science, mathematics and technology instruction at all levels—elementary through university. The Director is expected to obtain extramural funding through contracts and grants supporting the initiation and enhancement of programs that will address the needs and aspirations of K-16 science, mathematics and technology students, teachers and administrators. The Director must have a strong interest in discipline-based science, mathematics and technology education with teaching experience at the undergraduate and graduate levels, evidence of successful fund-raising for projects and experience in program administration. The Director must provide leadership for and have the ability to work with diverse constituencies in the educational arena and have experience in coordinating programs across educational institutions and government agencies. An earned Doctorate is required.

Interested parties should request a full job description. Applications should include a letter of interest, a current resume and the names, addresses and telephone numbers of three references. The closing date for applications is January 31, 1991. The deadline may be extended if a suitable candidate is not found. The position is available July 1, 1991 or sooner. Applications and nominations should be sent to:

Dr. Thomas A. Goret, Chair
CSMATE Director Search Committee
College of Natural Sciences, C-138 Clark
Colorado State University
Fort Collins, CO 80523
Fax (303) 491-0528

CSU is an EEO/AA employer. E.O. Office: 314 Student Services Bldg.

POSITION AVAILABLE
DIRECTOR, NATIONAL INSTITUTE OF MENTAL HEALTH, ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION
DEPARTMENT OF HEALTH AND HUMAN SERVICES

The Alcohol, Drug Abuse, and Mental Health Administration invites nominations and applications for the position of Director, National Institute of Mental Health (NIMH).

The person selected for this position (located in Rockville, Maryland) will receive a career appointment to the Senior Executive Service (SES). The 1990 salary range for this position is $71,200 to $83,600 (or $103,600 for physicians including the maximum $20,000 Physicians Allowance). The proposed 1991 salary range (pending issuance of an Executive Order) is $87,000 to $108,300 (or $128,300 for physicians). SES members are also eligible for performance awards of 5 to 20 percent of base salary. Alternatively, this position may also be filled through an appointment in the Public Health Service Commissioned Corps.

The National Institute of Mental Health provides leadership, policies, and goals for the Federal effort to increase knowledge and develop effective strategies to deal with health problems and issues in the prevention and treatment of mental illness and in the promotion of mental health. Its programs include intramural and extramural research, the administration of training programs to meet national mental health manpower needs, and the provision of technical services to States and communities. The Director manages a staff of 1,000 and a budget of $590 million, including over $450 million for research.

Candidates must have progressively responsible experience in developing, administering, and evaluating programs relating to mental disorders or mental health, including programs of research, training, services, or prevention. Candidates must also demonstrate competence to assume leadership in planning, staffing, directing, coordinating, and allocating resources, and other responsibilities associated with executive leadership of a major national program. Minimum education requirements include a degree of Doctor of Medicine, Doctor of Osteopathy, or a bachelor's or higher degree in an academic field relating to the health sciences.

Further information about the position and qualification requirements may be obtained by contacting Ms. Carmen Garcia, on (301) 443-5030. An Application for Federal Employment, SF 171, accompanied by a current curriculum vitae and bibliography are to be submitted to Ms. Garcia at the Division of Personnel Management, Alcohol, Drug Abuse, and Mental Health Administration, 5600 Fishers Lane, Room 15C-26, Rockville, Maryland 20857. Applications will be accepted without the SF 171 provided that the SF 171 is submitted upon request. Complete applications (including the SF 171) must be postmarked by the closing date of the vacancy announcement. Late applications will not be accepted.

Applications from women and minority group members are solicited.

THE ALCOHOL, DRUG ABUSE AND MENTAL HEALTH ADMINISTRATION IS AN EQUAL OPPORTUNITY EMPLOYER
Chair, Department of Nuclear Energy

Brookhaven National Laboratory is a multidisciplinary laboratory located on Long Island, New York, managed by Associated Universities, Inc., under contract to the U.S. Department of Energy. We are seeking a distinguished engineer or scientist to serve as Chair of the Department of Nuclear Energy.

The Department of Nuclear Energy is one of the major scientific departments at Brookhaven. The activities of the Department include programs related to reactor development, operation and safety, and to development of neutral particle beams. The current effort includes theoretical and experimental studies on the safety of commercial nuclear power plants, development of designs for advanced, compact nuclear power plants, development of improved methods for safeguarding nuclear materials, nuclear waste management studies, compilation and evaluation of nuclear data required for users throughout the world, and construction and operation of a Radiation Effects Facility and the Neutral Particle Beam Facility.

The Department, with a staff of 330, is organized into eleven divisions. The majority of the funding for the Department's activities is provided by the U.S. Nuclear Regulatory Commission and the U.S. Department of Energy.

Candidates are expected to be recognized authorities in the nuclear sciences field, and have contributed to the literature of nuclear energy. It is desirable that candidates have a Ph.D. in engineering, physics or chemistry; have extensive experience in both a research environment or an applied or industrial environment; be proven managers; have a successful record of working with program managers at government agencies, universities, and industrial organizations; and be able to bring to Brookhaven new opportunities for the Department's growth. Expressions of interest, which should include a resume and publications list, may be sent to: DOE Search Committee, Building 97C, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, New York 11973. Attention: Dr. J.M. Hendrie. Equal Opportunity Employer M/F.

ASSISTANT PROFESSORS
MOLECULAR TOXICOLOGY

University of Pittsburgh

The Department of Environmental and Occupational Health, Graduate School of Public Health, University of Pittsburgh seeks candidates for two full-time tenure track faculty positions at the ASSISTANT PROFESSOR level. Applicants should have a Ph.D., M.D., or equivalent degree and 2 years of post-doctoral training in molecular dosimetry with experience in the identification and quantitation of DNA-reactive molecules includes the characterization of protein adducts.

The successful candidates are expected to develop an independently funded research program as well as develop collaborative projects with faculty members in cognate disciplines. Responsibilities will include the instruction of graduate and post-doctoral students. Starting Date: As soon as possible. Salary commensurate with experience.

The Department of Environmental and Occupational Health at the University of Pittsburgh is a newly established and expanding multi-disciplinary department encompassing Molecular and Environmental Toxicology, Occupational and Environmental Medicine, and new approaches to Radiation Health. Additionally, the internationally renowned expertise of the Department of Epidemiology and Biostatistics are also available.

Exceptional applicants should submit curriculum vitae, statements of interests and names of at least three references to: Meryl H. Karol, Chair, Search Committee, Department of Environmental & Occupational Health, Graduate School of Public Health, University of Pittsburgh, 330 DeSoto Street, Pittsburgh, PA 15261.

THE UNIVERSITY OF PITTSBURGH IS AN AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER

ENDOWED CHAIR IN IMAGING SCIENCE
WIEDMAN CHAIR
MEDICAL IMAGING
CENTER FOR IMAGING SCIENCE
ROCHESTER INSTITUTE OF TECHNOLOGY

An endowed chair in the Center for Imaging Science was established in 1986 as a permanent memorial to the parents of the benefactor, Frederick Wiedman Jr. The Center wishes to attract a nationally recognized scholar and educator in the field of Imaging Science to fill this chair which becomes vacant July 1, 1991. This position is intended to enhance the Medical Imaging program within the Center. Nominees should be recognized authorities in some aspect of Medical Imaging and should possess the leadership skills necessary to establish an outstanding research and academic program. RIT has a history of having a strong undergraduate program and it is expected that the successful candidate will have a commitment to both graduate and undergraduate education.

Rochester Institute of Technology is an independent, co-educational university enrolling 13,000 students. The Center for Imaging Science grants BS, MS and PhD degrees in Imaging Science and an MS degree in Color Science. RIT is located near a university medical center and the research laboratories of many large and small corporations, including Kodak and Xerox. Nominations and applications should be forwarded to:

Dr. Harvey Rhody, Chair
Wiedman Search Committee
Center for Imaging Science
Rochester Institute of Technology
One Lomb Memorial Drive
Rochester, NY 14623

RIT is an equal opportunity, affirmative action employer committed to cultural diversity.

Chair, Department of Nuclear Energy

Brookhaven National Laboratory is a multidisciplinary laboratory located on Long Island, New York, managed by Associated Universities, Inc., under contract with the U.S. Department of Energy. We are seeking a distinguished engineer or scientist to serve as Chair of the Department of Nuclear Energy.

The Department of Nuclear Energy is one of the major scientific departments at Brookhaven. The activities of the Department include programs related to reactor development, operation and safety, and to development of neutral particle beams. The current effort includes theoretical and experimental studies on the safety of commercial nuclear power plants, development of designs for advanced, compact nuclear power plants, development of improved methods for safeguarding nuclear materials, nuclear waste management studies, compilation and evaluation of nuclear data required for users throughout the world, and construction and operation of a Radiation Effects Facility and the Neutral Particle Beam Facility.

The Department, with a staff of 330, is organized into eleven divisions. The majority of the funding for the Department's activities is provided by the U.S. Nuclear Regulatory Commission and the U.S. Department of Energy.

Candidates are expected to be recognized authorities in the nuclear sciences field, and have contributed to the literature of nuclear energy. It is desirable that candidates have a Ph.D. in engineering, physics or chemistry; have extensive experience in both a research environment or an applied or industrial environment; be proven managers; have a successful record of working with program managers at government agencies, universities, and industrial organizations; and be able to bring to Brookhaven new opportunities for the Department's growth. Expressions of interest, which should include a resume and publications list, may be sent to: DOE Search Committee, Building 97C, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, New York 11973. Attention: Dr. J.M. Hendrie. Equal Opportunity Employer M/F.

ENTOMOLOGIST

The Department of Biology at the University of Northern Iowa invites applications from individuals with the Ph.D. degree for a tenure-track position effective August 1991. Specific research area in entomology is open, but preference is given to an ecologic-evolutionary orientation. The research should involve participation by graduate (M.A.) and undergraduate students. Teaching responsibilities typically will include general entomology, an advanced course in one's specialty, and participation in the University General Education program. An opportunity may be available for summer teaching and research at the Iowa Lakeside Laboratory. The department expects excellence in both teaching and research. Salary is competitive and commensurate with experience and qualifications. Teaching and/or post-doctoral research experience preferred. Applicants should send curriculum vitae, transcripts, statement of interests and goals in both teaching and research, relevant reprints, and three letters of recommendation. For full consideration application materials should be received by February 11, 1991. Send application and/or letters of inquiry to:

Dr. George R. Hoffman
Professor and Head
Department of Biology
University of Northern Iowa
Cedar Falls, IA 50614-0421

THE UNIVERSITY OF NORTHERN IOWA IS AN EQUAL OPPORTUNITY EDUCATOR AND EMPLOYER WITH A COMPREHENSIVE PLAN FOR AFFIRMATIVE ACTION. THE UNIVERSITY SPECIFICALLY INVITES AND ENCOURAGES APPLICATIONS FROM WOMEN AND MINORITY PERSONS.
ENDOWED CHAIR IN BIOLOGY

The Department of Biology, Saint Louis University, is searching for a distinguished scientist for the William S. Barnickel Endowed Chair in the Natural Sciences. We seek a scientist with expertise in cellular, molecular, or genetic approaches to fundamental problems in biological regulation. The individual is expected to emphasize research and be a catalyst in further development of excellent M.S. and Ph.D. programs. Saint Louis is a center for research in molecular biology and genetics with opportunities to interact with scientists at Saint Louis University and at the Saint Louis University Medical School and at other academic and research institutions in the metropolitan area. The recipient of the chair will receive start-up funds and annual support for research from the endowment.

We will begin to review applications on February 15, 1991. Nominations should include a letter supporting an abbreviated curriculum vitae of the nominee. Applications should include a letter describing current and future research and teaching interests, a curriculum vitae, and names and phone numbers of five professional references. Please send nominations and applications to Dr. Robert I. Bolta, Chair, Department of Biology, Saint Louis University, 3507 Laclede Avenue, St. Louis MO 63103-2916.

Saint Louis University is an affirmative action and equal opportunity employer.

Lecturer/Senior Lecturer in Molecular Genetics

Applications are invited for a Lecturer/Senior Lecturer position in Molecular Genetics within the Department of Microbiology and Genetics. The appointee will be expected to develop a strong research programme in Molecular Genetics as well as participate in both undergraduate and post-graduate teaching.

The Department of Microbiology and Genetics is well equipped for research in Molecular Genetics and has strong links with the Department of Chemistry and Biochemistry.

Applicants should have a PhD plus several years post-doctoral experience in Molecular Biology. Further information on the position may be obtained from Professor Barry Scott, extension 7965, fax (64) 63 505-613 or e-mail DBScott@massey.ac.nz.

Closing date: 28 February 1991.

Further details of the above position together with Conditions of Appointment are obtainable from Mrs V B Bretheron, Personnel Section, to whom applications, including a full curriculum vitae and the names, addresses and fax numbers of three referees should be sent before the closing date specified.

B.R.H. Monks
Registrar
We are an Equal Opportunity Employer.

University of Regina

PLANT PHYSIOLOGY

ANIMAL PHYSIOLOGY

Two tenure track positions at Assistant or Associate Professor level are available in the areas of plant and animal physiology. Preference will be given to those with two years of postdoctoral experience, and molecular and/or genetical expertise. Candidates must have a strong commitment to research and to teaching at the undergraduate and graduate levels (M.Sc. and Ph.D.). Research will be encouraged with start-up funds and reduced teaching loads to get new faculty quickly productive in their research. The cost of housing is very reasonable in this small attractive, capital city. Applicants should send a cv and the names and addresses of three referees to:

Dr. Melvin Weisbart, Head
Department of Biology
University of Regina
Regina, Saskatchewan
Canada S4S 0A2
FAX 306-585-4894
Bitnet: WEISBART@UREGINAV

In accordance with Canadian Immigration requirements, priority will be given to Canadians and permanent residents. The University of Regina is committed to employment equity. We welcome applications from all, especially aboriginal people, people with disabilities, visible minorities and women.

University of Michigan Medical Center

Faculty Position

Cancer Biology/Thoracic Oncology

Department of Surgery and the University of Michigan Cancer Center

University of Michigan—Ann Arbor

Applications are invited for a tenure track faculty position in the field of Cancer Biology—particularly thoracic oncology (lung and esophagus)—in the Department of Surgery, Section of Thoracic Surgery, to augment our existing faculty group. The position will involve a joint appointment in the University of Michigan Cancer Center and a supported interaction with other basic scientists. Research in the areas of regulation of proliferation and differentiation, growth and regulatory factors, cell-cell interactions, cytogenetics, and the biology of tumor cells is of special interest. However, outstanding scientists in other areas will also be considered.

Candidates for this position should have at least two years of pertinent postdoctoral experience. The successful candidate will be expected to develop a nationally recognized independent research program. A wide variety of interactions with our present faculty members is possible in many areas of biochemistry, immunology, pharmacology, and molecular and cellular biology. We provide excellent physical facilities, a stimulating research environment, and competitive salary and benefits. Space is available in a newly completed research facility which includes the University of Michigan Biotechnology Division and Genome Research Center in addition to the many other scientific resources available at the University of Michigan. Applicants should provide a curriculum vitae, two copies of recent representative publications, and a detailed description of research goals. The applicant should also arrange for three letters of recommendation to be sent directly to us. The Search Committee will begin reviewing applications November 15, 1990 but will continue to accept applications until the position is filled.

Submit applications to:

Jeffrey M. Trent, Ph.D.
Emmanouil N. Maliaris Professor of Oncology
Head, Thoracic Surgery Research Faculty Search Committee
MSRBIIIC560 Box 0668
Ann Arbor, MI 48109

The University of Michigan is an Equal Opportunity/Affirmative Action Employer and applications from female and minority group members are strongly encouraged.
DEPUTY CHIEF, BIRTH DEFECTS CENTERS FOR DISEASE CONTROL

The Center for Environmental Health and Injury Control (CEIC) at the Centers for Disease Control (CDC), Atlanta, Georgia, is seeking a deputy chief for the Birth Defects and Genetic Diseases Branch to direct studies relating to birth defects and genetic epidemiology. Applicants must have a background in medicine (M.D. or equivalent). In addition to the M.D., a doctoral degree in epidemiology is preferred. It is desirable that candidates have specialized training in genetic epidemiology and pediatric medicine. Also, a minimum of 5 years of experience is preferred in design and analysis of genetic epidemiologic studies. Applicants must have demonstrated ability to work with a high professional and motivated technical and administrative staff. Ph.D. preferred; M.S. essential. Substantial foreign and domestic travel expected. Write (no phone calls, please), including résumé and list of people who may be contacted for recommendation.

The Department of Pathology at the University of California, San Diego (UCSD), seeks a HEAD OF THE DIVISION OF ANATOMICAL PATHOLOGY who will also serve as chief of the Surgical Pathology Service at the UCSD Medical Center. Applicants should have a record of research, teaching of medical students and residents, and clinical activities sufficient for appointment as either an associate or full professor of pathology with tenure at UCSD. Applicants should also have Board certification in either anatomic pathology or anatomic/pathologic laboratory or should be eligible for Board certification. Previous experience in surgical pathology is preferred. The incumbent will be expected to work with the current pathology faculty, deans, and chairmen to develop and carry out a comprehensive plan of the instiutional mission. 

DIRECTOR, WORK ENVIROMENT, ENVIRONMENT AND TECHNOLOGY POLICY

The University of Lowell Research Foundation is seeking a director, work environment, environment and technology policy position:

• Develop a strategic plan for advancing programs in new technologies as applied to environmental and work environment issues.
• Work with faculty, deans, and staff of the university engaged in externally funded research in work environment, environment, technology policy, and/or related areas with particular focus on safe materials and clean technologies as applied to pollution prevention at the source.
• Provide liaison to enhance relations with federal, state, and private funding sources.
• Work with faculty and staff of the Work Environment Department in developing initiatives for an ergonomics institute.

Qualifications: Significant experience at the policy level in issues relating to the work environment and environment with particular emphasis on developing innovative methodologies for addressing societal concerns. Ability to speak to a wide audience: the ability to understand and communicate the interrelated nature of the impact and cost of work environment, environment, and technology policy issues. Bachelor's degree required; master's degree preferred.

This is a non-fundated position. Interested applicants should forward a résumé by 11 January 1991 to:

Dr. Charles Leventeen
Chair, Search Committee
Work Environment Department
One University Avenue
Lowell, MA 01854

The University of Lowell is an Equal Opportunity/Affirmative Action/Tide DX/504 Employer.

TECHNICAL TRAINING IN ENERGY FOR DISTRICT HEATING PROFESSIONALS

Nonprofit educational institution seeks MANAGER for USAID-funded project. Must have technical working knowledge of both management and technical aspects of district heating systems, including power plants, power systems, energy planning, etc. Experience in professional-level training, management and needs assessments, human resource development a real plus. Knowledge of developing countries and experience in LDCs especially preferred. Must demonstrate ability to work with a highly professional and motivated technical and administrative staff. Ph.D. preferred; M.S. essential. Substantial foreign and domestic travel expected. Write (no phone calls, please), including résumé and list of people who may be contacted for recommendation.

The State University of New York (SUNY) and Cornell University for the position of Director of the New York Sea Grant Institute, a cooperative program of these two universities.

Responsibilities: The director provides overall leadership for the development, conduct, and evaluation of the entire spectrum of research, education, communications, and other activities of the Sea Grant program. The director is expected to:

• Design, develop, and implement an extended basin institute.
• In collaboration with the Associate Director/Extension Program Leader located at Cornell, the director carries out a variety of leadership and management responsibilities.

Qualifications: The director must have a distinguished record of scholarly accomplishments in a marine-related discipline that would qualify him/her for a tenure appointment to the faculty of the Marine Sciences Research Center at the State University of New York at Stony Brook. A doctorate or appropriate equivalent degree is required. Ability to communicate effectively with diverse audiences, both orally and in writing, is required.

Successful administrative and supervisory experience, knowledge of the sponsored research process, and an understanding of and dedication to university outreach and extension activities are essential. Familiarity with an existing Sea Grant program and the Sea Grant or Land Grant mission is also highly desirable. Salary and benefits are competitive and commensurate with experience and qualifications.

Application procedure: Nominations and applications are invited. Applicants should submit a letter of application/interest, current curriculum vitae, and the names, addresses, and telephone numbers of three references to: Dr. J. R. Schuebel, Chair, NSG1 Director Search Committee, c/o New York Sea Grant Institute, Duchess Hall, SUNY at Stony Brook, Stony Brook, NY 11794-5001. Deadline for applications is 31 January 1991. SUNY at Stony Brook is an Affirmative Action/Equal Opportunity Employer.

Unique opportunity to participate in the expansion of McLaughlin Research Institute, a small mammalian genetics center in Great Falls, Montana. Immediate opportunities for ESTABLISHED INVESTIGATORS to work in a nonbureaucratic, interactive research environment and to participate in the design of the new facility and in recruitment and selection of additional scientists. Current research programs are on the genetics of susceptibility to cancer and neurodegenerative disease, but recruits will play a major role in determining future research directions. For more information, contact: George A. Carlson, Scientific Director, McLaughlin Research Institute, 1625 3rd Avenue North, Great Falls, MT 59401 or any of the following members of our Scientific Advisory Committee: Jeff Frelinger, Norm Reed, Lee Hood, Neal Copeland, and Graham Lister. McLaughlin Research Institute is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE LABORATORY DIRECTOR CLINICAL CYTOGENETICS

LGS/LABORATORIES FOR GENETIC SERVICES, INC., located in the Texas Medical Center, Houston, Texas, is seeking a clinical cytogeneticist to join the laboratory. LGS, a private genetic diagnostic laboratory, serves a large national referral base for prenatal diagnostic studies, adult and pediatric genetic disorders, and acquired neoplasias. LGS has formal academic affiliations with the Texas Medical Center. This academic affiliation enhances the professional advantages of the position. The laboratory currently occupies over 5000 square feet and will expand to 10,000 square feet in 1991. Biotechnology research and development is currently operative in both molecular and instrumentation areas and will expand with the new facilities. Requirements include a doctoral level degree and American Board of Medical Genetics certification. Experience in molecular genetics is preferred but not required. Benefits are commensurate with experience.

Submit curriculum vitae, letter of interest, and three professional references with addresses and phone numbers to: Peggy Pearce Caskey, President, LGS/Laboratories for Genetic Services, 6410 Fannin, Suite 700-30, Houston, Texas 77030. Fax: 713-797-9322; FAX: 713-797-9731. LGS is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR DIVISION OF MOLECULAR MEDICINE DEPARTMENT OF MEDICINE

The Department of Medicine at Cedars-Sinai Medical Center is a major teaching and research institution within the University of California, Los Angeles, School of Medicine, is recruiting for a DIRECTOR for the newly created Division of Molecular Medicine, a growing number of molecular biologic investigators in several divisions and departments of the campus. Candidates must have either an M.D. or Ph.D. degree, and should be accomplished investigators with an extensive academic record in molecular biology and molecular genetics laboratory investigations. Please address all correspondence to Dr. Jack Strawbridge, Chairman, Department of Medicine, Cedars-Sinai Medical Center, 8700 Beverly Boulevard, Suite B-118, Los Angeles, California 90048. Cedars-Sinai Medical Center is an Equal Opportunity Employer.

COMMUNITY COLLEGErant to direct his or her own laboratory at this nonprofit private institute. The research program may be in any area of medically oriented biology. Primary consideration will be given to excellence in research and the ability to obtain funding. Laboratory space, start-up funding, and continuing grant subsidies are exceptionally generous. If you are energetic and want the freedom to pursue your ideas in an area of enthusiasm, this is the place for you! Write or call: Michael McClelland, CIBR, 11099 North Torrey Pines Road, La Jolla, CA 92037. Telephone: 619-555-5486.

Philadelphia: Department of Psychiatry, University of Pennsylvania, seeks RESEARCH ASSISTANT PROFESSOR as DIRECTOR of Core Assay Laboratory, Program Project on Thyroid Hormones, Episodic Behavior and Affective Disorders. Ph.D. in neuroendocrinology desirable; must be familiar with RIA techniques for hormones, neuropeptides, antibodies, etc. Own research in this area encouraged. Program includes large body of investigators, both clinical and basic science. Send curriculum vitae and three references to: Peter C. Whybrow, M.D., Professor and Chairman, Department of Psychiatry, University of Pennsylvania, 305 Blockley Hall, 418 Service Drive, Philadelphia, PA 19104–6021. Equal Opportunity/Affirmative Action Employer.

ASSOCIATE LABORATORY DIRECTOR CLINICAL CYTOGENETICS

LGS/LABORATORIES FOR GENETIC SERVICES, INC., located in the Texas Medical Center, Houston, Texas, is seeking a clinical cytogeneticist to join the laboratory. LGS, a private genetic diagnostic laboratory, serves a large national referral base for prenatal diagnostic studies, adult and pediatric genetic disorders, and acquired neoplasias. LGS has formal academic affiliations with the Texas Medical Center. This academic affiliation enhances the professional advantages of the position. The laboratory currently occupies over 5000 square feet and will expand to 10,000 square feet in 1991. Biotechnology research and development is currently operative in both molecular and instrumentation areas and will expand with the new facilities. Requirements include a doctoral level degree and American Board of Medical Genetics certification. Experience in molecular genetics is preferred but not required. Benefits are commensurate with experience. Submit curriculum vitae, letter of interest, and three professional references with addresses and phone numbers to: Peggy Pearce Caskey, President, LGS/Laboratories for Genetic Services, 6410 Fannin, Suite 700-30, Houston, Texas 77030. Fax: 713-797-9322; FAX: 713-797-9731. LGS is an Affirmative Action/Equal Opportunity Employer.

FREE INFORMATION SERVICE: Send a letter stating the name of the new laboratory and Science will put you in touch with the vendors whose products you will need. Write to: SCIENCE New Library Service Department, 1515 Broadway, New York, NY 10036.

SCIENCE, VOL. 250

POSITIONS OPEN
CLARE BOOTH LUCE PROFESSORSHIPS
St. John's University
Department of Biological Sciences

The CLARE BOOTH LUCE FUND of the Henry Luce Foundation, established through a bequest from Mrs. Luce, aims to increase the number of women in academic positions in scientific and technological fields in which they have historically been underrepresented. St. John's University, New York, one of the beneficiaries of the Fund, seeks applications for two CLARE BOOTH LUCE professorships in the biological sciences, to begin in the fall of 1991-92. The department currently has 16 faculty and strong programs leading to the B.S., M.S., and Ph.D. degrees. Applicants should have the academic qualifications and background necessary for appointment as an assistant or associate professor, including an earned Ph.D. and post-doctoral research experience. Applicants for the rank of Associate Professor should have the experience and distinction expected at this level. Specialization in cellular, molecular, or developmental biology is preferred. Commitment to providing quality instruction, primarily at the graduate level, is expected. In addition, the successful candidate will be expected to establish a vigorous research program and to obtain external research support. According to the terms of the Luce Fund, CLARE BOOTH LUCE professors must be women who are citizens of the United States.

Applications, with a list of three references, should be sent to:
Richard A. Lockshin, Ph.D.
Professor and Chairman
Department of Biological Sciences
St. John's University
Jamaica, New York 11439.

St. John's is an equal opportunity employer – M/F.

Instructor—Biological Sciences

The Department of Science and Mathematics of FIT, a college for design and business professions under the program of the State University of New York, invites applications from qualified candidates for a full time, tenure-track position in BIOLOGICAL SCIENCES for Spring 1991. A Ph.D. is preferred, and candidates must have a commitment to, and experience in, teaching undergraduate courses to non-science majors. Candidate will be expected to teach undergraduate survey courses in the biological sciences and may be able to teach specialized elective courses. Send curriculum vitae, statement of teaching interests, and the names of 3 persons we might contact as references, by January 7, 1991, to:

Dr. Joseph Costelli, Chair
Department of Science & Mathematics
Fashion Institute of Technology
Seventh Avenue at 27 Street
New York City, 10001-5992

FIT is an Equal Opportunity/Affirmative Action Employer. Applications from minority and female candidates are strongly encouraged.

Fashion Institute of Technology

Important PRIVATE MEDICAL RESEARCH CENTER in PARIS area, member of one of the leading PHARMACEUTICAL companies in FRANCE is hiring for its DEPARTMENT OF CELLULAR AND MOLECULAR BIOLOGY

Senior Pharmacologist-Biochemist

Ph. D or post doctoral level

The successful candidate has long experience in receptor binding techniques and autoradiography. Experience in industry is welcome but creativity and independence are more important. Experience with peptide receptors is of advantage.

Please submit C.V. to PUBLIVAL/12018
27, route des Gardes - 92190 MEUDON - FRANCE

CELL BIOLOGY

Faculty Positions

The Department of Cell Biology at the Duke University Medical Center is undergoing a major expansion of its faculty over the next several years. Applicants are being sought who have a strong research background using the modern technologies of cell biology, molecular biology, and physiology and who are interested in participating in an interactive research community. The major focus of the department is to define molecular mechanisms for the function and development of cells and organs. Most appointments will be at the level of assistant professor.

Please send curriculum vitae, list of three references, and a brief description of proposed research to:

Michael P. Sheetz, Chairman
Department of Cell Biology
Duke University Medical Center
Box 3709
Durham, NC 27710

Duke University is an Equal Opportunity/Affirmative Action Employer.
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POSITIONS OPEN

PRODUCT MANAGER—RESEARCH INSTRUMENTS

Full-time, permanent position in established company (40 employees) to market select scientific products. Previous business experience not as important as your motivation, writing, and interpersonal skills. Computer literacy required. Ph.D. in one of the physical sciences desirable. Chicago location. Please submit curriculum vitae and salary history in confidence to Box 146, SCIENCE.

The UNIVERSITY OF BRITISH COLUMBIA
HEAD, DEPARTMENT OF PHARMACOLOGY AND THERAPEUTICS

The Faculty of Medicine, University of British Columbia, invites applications and nominations for the position of Head of the Department of Pharmacology and Therapeutics. We seek an academic leader to be responsible for directing and developing the teaching and research programs of the department. The department has 12 full-time and one clinical/part-time faculty members and attracts strong research support. Candidates should have a proven record of scholarship, a strong research background, and a commitment to undergraduate and graduate medical education. Starting date will be 1 July 1991. Salary will be commensurate with experience and qualifications.

Applications, accompanied by a detailed curriculum vitae and the names of two references, should be directed by 31 January 1991 to:

Dr. M. J. Hollenber
Dean, Faculty of Medicine
Room 317, Instructional Resources Centre
University of British Columbia
2194 Health Sciences Mall
Vancouver, BC, Canada V6T 1W5

The University of British Columbia is committed to the Federal Government's employment equity program and encourages applications from all qualified individuals. In accordance with Canadian immigration requirements, priority will be given to Canadian citizens and permanent residents.

COOPERATIVE RESEARCH UNITS
U.S. FISH AND WILDLIFE SERVICE

The U.S. Fish and Wildlife Service invites applications for (i) four fisheries research biologists (GS-482-11/12) to serve as ASSISTANT LEADER-FISHERIES at Cooperative Research Units in Minnesota, New York, North Carolina, and Vermont, and (ii) a wildlife research biologist (GS-486-12/13) to serve as LEADER OF THE GRAMBLING WILDLIFE PROJECT in Louisiana. Successful candidates will be located on cooperating university campuses and will receive a courtesy faculty appointment at the host university.

- Assistant unit leader duties include establishing a strong research program, teaching at the graduate level, and technical assistance on fisheries resource issues.
- Wildlife project leader duties include teaching at the undergraduate level, administration of all aspects of the project, and counseling undergraduate minority students in career and education opportunities.

Requirements for the positions include a record of research productivity or resource management training and experience, a commitment and ability to teach, and ability to administer research grants and program budgets. Candidates must meet the requirements for a faculty appointment.

To apply, send a completed SF-171 and OPM Form 1170 (List of College Courses) for each different vacancy of interest to: Ms. Dot Easley, Personnel Division, Research and Development, U.S. Fish and Wildlife Service, Mail Stop 725 ARLSQ, Washington, DC 20240. Applications must reference the particular state for which you are applying. Applications for the assistant leader positions must be postmarked no later than 7 January 1991; those for the project leader position must be postmarked no later than 22 January 1991.

Additional vacancies for unit leader, assistant leader, and Washington headquarters staff positions are expected to be announced in January 1991. For additional information, contact: Cooperative Research Units Center, USFWS, Mail Stop 725, ARLSQ, Washington, DC 20240. Telephone: 703-358-1709.

The Fish and Wildlife Service is an Equal Opportunity Employer. Applications are encouraged from women and minority candidates.

POSITIONS OPEN

MEETING REVIEWS EDITOR

The New Biologist, a journal of basic biological research, has an opening for a part-time or full-time meeting reviews editor to organize, solicit, edit, and sometimes attend and write articles for the meetings section of the journal. Applicants should have a broad interest in basic biology and a demonstrated ability to write. Qualifications required include a Ph.D. with training or experience in cellular and molecular biology. Send letter of application and résumé to: R. Kaldiah, The New Biologist, 7514 Wisconsin Avenue, Suite 500, Bethesda, MD 20814.

FACULTY POSITION IN ECOLOGY/ICHTHYOLOGY OR MAMMALOGY. The Biology Department, Middle Tennessee State University, invites applications for a tenure-track teaching position (ASSISTANT PROFESSOR, Ph.D.) available August 1991. The successful applicant must have a strong background in ecology/ichthyology or mammalogy and will teach lecture and laboratory sections in ecology and ichthyology or mammalogy at the undergraduate and graduate level and general biology at the undergraduate level as well as direct student research. Research and/or public service is expected. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Application deadline is 1 February 1991. Inquiries, applications, reference letters, and three letters of recommendation to: Dr. Kurt Blum, Search Committee Chair, Box 321, Middle Tennessee State University, Murfreesboro, TN 37132.

The Department of Biology at the Virginia Military Institute (VMI), Lexington, Virginia, invites applications for a possible TENURE-TRACK POSITION commencing 1 August 1991. Requirements for position include ability to teach general biology, developmental biology, and upper-level courses in area of expertise. Preference will be given to candidates who hold the Ph.D. degree and who can also demonstrate an interest in conducting small animal research.

VMI is an undergraduate military college located in the Shenandoah Valley of Virginia. Faculty wear uniforms but are not required to perform nonacademic duties or to have prior military experience. Interested candidates should send résumé, transcript, and three letters of recommendation by 1 March 1991 to: Fred C. Sweney, Ph.D., Department of Biology, VMI, Lexington, VA 24450. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN GENETICS at University of Wisconsin (UW)-Madison. The Laboratory of Genetics, UW-Madison, invites applications for an ASSISTANT OR ASSOCIATE PROFESSOR of genetics. All areas of genetics and molecular genetics will be considered. A doctoral degree, postdoctoral experience, and demonstrated record of research accomplishments is required. Applicants should send curriculum vitae, a statement of present and future research interests, representative reprints or preprints, and three letters of recommendation to: Genetics Search Committee, c/o Dr. Philip Anderson, 118 Genetics, University of Wisconsin, 445 Henry Mall, Madison, WI 53706. Application deadline is 1 February 1991. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

AQUACULTURE BIOLOGIST. The Department of Biological Sciences at Florida Institute of Technology (FIT) invites applications from individuals with strong research and teaching credentials in marine and/or freshwater aquaculture with emphasis on invertebrate/algae species. The candidate will be expected to develop an active research program with demonstrated potential for extramural funding, direct M.S. and Ph.D. students, teach entry level, and cooperate with faculty in related areas of marine and conservation biology. Ph.D. and 2 years of postdoctoral experience essential. Position is available for fall of 1991. FIT is in an open and wary will be commensurate with qualifications and experience. Send curriculum vitae, a concise plan for future research, and names of three references to: G. M. Wells, Head, Department of Biological Sciences, 150 West University Boulevard, Melbourne, FL 32901-6988. FIT is an Equal Opportunity Employer. Applications from qualified women, ethnic minorities, and the handicapped are welcome.
POSITIONS OPEN

FACULTY POSITION, MICROBIAL PATHOGENESIS. The Department of Microbiology at the Medical College of Ohio invites applications for a one tenure-track faculty position at the ASSISTANT/ASSOCIATE PROFESSOR level for a new program in microbial pathogenesis. Candidates are being sought who have demonstrated excellence in research and whose investigations embrace modern approaches to understanding bacterial, viral, fungal, or parasitic disease mechanisms. Successful candidates are expected to develop independent externally funded research programs and to contribute to the teaching of medical and graduate students. Our laboratory and support facilities are outstanding. In addition, generous start-up funds will be provided. Salaries are competitive and commensurate with experience. Submit curriculum vitae, a statement of research goals, and three letters of recommendation by 31 March 1991 to: Earl H. Freimer, M.D., Chairman, Department of Microbiology, Medical College of Ohio, P.O. Box 10,008, Toledo, OH 43699. The Medical College of Ohio is an Equal Opportunity/Affirmative Action Employer.

MARINE ZOOLOGIST. Ph.D. for 1 year position to teach courses in the applicant's area of expertise and participate in teaching introductory level biology or general ecology. Send letter of application, résumé, and names and addresses of three references to: Search Committee, Department of Biology, Bates College, Lewiston, ME 04240 by 20 January 1991. Bates College is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

FACULTY POSITIONS

MOLecULAR BIOLOGY

Marshall University School of Medicine is seeking two individuals with training and experience in molecular biology to interface with faculty members working on an interdisciplinary program funded to investigate and develop aspects of cell growth and calcium homeostasis. These currently available, tenure-track appointments will be made in physiology, biochemistry, or microbiology at the ASSISTANT OR ASSOCIATE PROFESSOR level depending on the individual's back- ground and qualifications. Candidates should hold a doctoral degree and have two or more years postdoctoral training and expertise in molecular and cell biology. Each individual is expected to develop a strong research program and aid in developing the research capabilities of faculty members and graduate students in cell and molecular biology. Interested candidates should send curriculum vitae, statement of research interests, and names of three references by 15 February 1991 to: Dr. Albert G. Moat, Chair, Search Committee, Department of Microbiology, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25705. Marshall University is an Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

FACULTY POSITIONS IN MICROBIOLOGY

MICHIGAN STATE UNIVERSITY (MSU)

The Department of Microbiology at Michigan State University intends to make at least two tenure-track, academic year appointments at the level of ASSISTANT PROFESSOR. Applicants are sought with expertise in aspects of the microbiology of lower eukaryotes including, but not limited to, yeasts. A Ph.D. degree and two or more years of postdoctoral experience are required. The Department of Microbiology at MSU is one of the largest and most diverse such departments in the nation, with faculty appointments in the Colleges of Natural Science, Human Medicine, Osteopathic Medicine, and Veterinary Medicine and the Michigan Agricultural Experiment Station. This search will be part of a larger hiring initiative to take place over the next 5 years. To apply, send curriculum vitae with a plan for future research and arrange for at least three letters of reference to be sent to: Dr. Larry Snyder, Chairperson, Search Committee, Department of Microbiology, Gillman Hall, Michigan State University, East Lansing, MI 48824. Review of applications will begin 1 February 1991. Michigan State University is an Affirmative Action/Equal Opportunity Employer. Women and minority candidates are particularly encouraged to apply.

RESEARCH SCIENTISTS

Battelle, Pacific Northwest Laboratories is the preeminent multiprogram national laboratory for rapid advancement of science and development of technology. This laboratory is located in southeastern Washington, which boasts a favorable climate and is completely devoid of traffic congestion and smog. Battelle's 1000 + research projects per year are handled by over 3300 staff members. Continued growth prompts us to seek the following:

Geochemistry

The selected applicants will be accountable for developing techniques for elemental and oxidation state analyses, coordinating and assisting research and technical staff in use of analytical equipment methodologies.

Senior Research Scientist: Will also be responsible for ion chromatography, ICP and ICP-MS analysis, radiometric counting, solid phase characterization, and surface analysis. Maintaining a strong publication record based on original research is required. Familiarity with ion exchange, solvent extraction, spectrophotometric techniques, and computer software highly desirable. The individual is expected to plan and participate in laboratory and field investigations aimed at defining the fundamental, thermodynamic and geochemical behavior of elements.

Research Scientist: Will also be responsible for conducting research in estimation of chemical properties of environmentally important compounds, and interfacing with contaminant transport model development and application studies. Two to three years postdoctoral experience in transport of organic contaminants preferred. Experience in the application of computer modeling techniques to waste disposal problems and knowledge of FORTRAN and its application on IBM Personal Computers required.

Both positions require a Ph.D in Geochemistry, Environmental Chemistry, Civil Engineering, Chemical Engineering, or other related field. Respond to Dept. RZ10A.

Surface Water

The successful applicants will participate in the ongoing development of a modeling capability applicable to regional/mesoscale studies.

Senior Research Scientist: This principal investigator for terrestrial hydrology will work with an interdisciplinary team of researchers (e.g., hydrology, meteorology, ecology, remote sensing, etc.) to develop a methodology that deals with issues in scales (i.e., process aggregation and disaggregation) and alternate climate scenarios. Candidate must have record that reflects activity in these areas, and a minimum of five years experience in terrestrial hydrology, active in climate change research, and specialization in an aspect of terrestrial hydrology/watershed processes.

Research Scientist: You will participate in research that will improve the understanding of atmospheric and biospheric interactions with hydrologic processes. Programming skills in FORTRAN and C desired.

Both positions require an MS/PhD in Hydrology, Geosciences, Engineering, or equivalent. Strong background in terrestrial hydrology/watershed processes, snow, precipitation, runoff, infiltration, evapotranspiration, streamflow and water resources preferred. Respond to Dept. RZ10B.

Send resume to: Battelle, Pacific Northwest Laboratories, (indicate correct department number), P.O. Box 1406, Richland, WA 99352. U.S. Citizenship required. Equal Opportunity Employer.

21 DECEMBER 1990
**Postdoctoral Fellow— Iontophoretic Transdermal Delivery**

Research activities will focus upon the mechanism of drug transport by iontophoresis. Particular emphasis will be placed upon identifying the physiological barriers to iontophoresis and the microscopic changes which occur within the skin during iontophoresis. The objective of the studies is to develop a model which rationalizes how changes in the current density and drug formulation affect iontophoreric transport.

This is a one-year appointment, renewable for a second year. A Ph.D. in Chemistry, Biochemistry, Pharmaceutical Sciences, Cell Biology, or Bioengineering is required. Background in either transport phenomena or skin physiology is desired. No experience with iontophoresis is required.

**Assistant Fellow, Bioassay Development**

Person will be responsible for the set-up and operation of a bioassay laboratory to support the development of monoclonal antibodies and recombinant proteins. The present focus is the improvement and validation of in-vitro viral neutralization assays. Future work will involve cytokine bioassays and cell receptor binding assays. Position requires a Ph.D. in Cell Biology or related discipline. Strong background in mammalian cell culture and viral neutralization assays is essential. Good communication and supervisory skills are required.

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At Genetics Institute, our endeavors as a leader in biopharmaceutical research and development focus on the set of nature's building blocks we call proteins - specifically those proteins that are too rare in nature to be produced from natural sources. Through scientific excellence, innovative manufacturing, and the highest standards of quality, Genetics Institute is successfully developing complex products and building a better future.

Please forward your resume to Peter Laskey, Genetics Institute, One Burtt Road, Andover, MA 01810.

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**Manager, Preformulation Research**

Person will be responsible for directing the technical activities of the Physical Pharmacy/Preformulation Research Group. Activities include physicochemical characterization and mechanistic preformulation stability studies of new drug substances and raw materials.

Ph.D. in Analytical Chemistry, Physical Organic Chemistry, or Physical Pharmacy with 5-10 years of experience in pharmaceutical preformulation research is required. Technical expertise in analytical chemistry (HPLC, DSC, TGA, X-ray diffraction, powder properties), solid state chemistry (polymorphism), chemical stability and stabilization of dosage forms, and drug absorption is essential. Candidate must also possess excellent supervisory and communication skills.

Positions at Sandoz offer personal satisfaction, professional opportunity/challenge, competitive salaries and an excellent benefits package. Our campus-like facilities are conveniently located in northern New Jersey. For prompt, confidential consideration, forward your resume and salary requirements, indicating position of interest, in confidence, to:

Robert N. Saunders, Ph.D.
Director of Human Resources
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SANDOZ PHARMACEUTICALS CORP
East Hanover, New Jersey 07936

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**Lab Head, Pharmaceutical Analysis**

Work independently to develop, validate, and document analytical methods for monitoring protein purity and stability in formulated drug products. A Ph.D. in chemistry or biochemistry and 5 to 10 years experience analyzing formulated drug products required. Direct experience with protein analytical methods (SDS-PAGE, IEF, RP/HPLC, SEC, CZE, CD, DSC, etc...) is essential. Supervisory experience and a strong publication record desirable.

**Staff Scientist, Formulation Development**

Must be able to effectively interact with scientists having diverse backgrounds. A Ph.D. in chemistry, pharmacy, biochemistry or related discipline, hands-on work with proteins and parenteral products and 2 to 5 years experience in the pharmaceutical industry required. Qualified candidate will have a proven track record successfully developing dosage forms for toxicology, clinical, and registration stability studies.

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The Geneva Molecular Biology Research Institute of one of the world's most successful healthcare groups is recruiting a

YEAST MOLECULAR GENETICIST

To join an expanding team of scientists applying the techniques of molecular biology to the identification of novel targets for anti-fungal therapy. The successful candidate must have a proven track record in the field of yeast molecular biology and experience in the cloning of yeast genes.

The Glaxo Institute for Molecular Biology carries out long term research to support the company-wide drive to discover effective new medicines. The Institute has an international staff, grouped in teams of specialists in the key areas of modern Biology.

We offer a stimulating work environment, an excellent salary and benefits package, and opportunities for career development in one of the most attractive parts of Europe.

If you are interested in this position, please send your Curriculum Vitae with a list of publications and the names of three referees to: Rita Gloor, Personnel Manager, GLAXO IBM SA., 46, route des Acacias, 1211 Geneva 24, Switzerland.

Baker Healthcare Corporation is synonymous with products, systems and services devoted to improving healthcare throughout the world. Our Los Angeles-based Hyland Division continues to develop and distribute a variety of human plasma derivative products. We're also investing in the future with a solid commitment to biotechnology. If you'd like to make a difference in the quality of life, consider the following positions:

**SR. ANALYSTS:**
**IMMUNOLOGY, COAGULATION**

Primary responsibility will be development and fine tuning of analytical techniques leading to validated assay procedures. These individuals must be able to troubleshoot current and new methodologies utilizing their respective knowledge of immunology or coagulation chemistry. These positions require an MS degree in immunology or biochemistry. (BS degree with extensive experience in the required fields will be considered.) Experience in an industrial/clinical laboratory as well as familiarity with CFR, GLP/GMP and statistical analysis as applied to assay validation is preferred, but not required.

We provide a non-smoking environment, competitive compensation package, and all the benefits you'd expect from a Fortune 100 Company. Please send your resume with salary requirements to: **Baxter Hyland Division, Human Resources Dept. RG, 550 N. Brand Blvd., Glendale, CA 91203.** Employment is contingent upon the result of a drug screening test. An Affirmative Action/Equal Opportunity Employer.

Hyland Division

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BIOLOGIST/SCIENCE EDUCATOR. The Biology Department, Middle Tennessee State University, invites applications for a tenure-track, nine-month, beginning August 1991. Doctorate in biology or science education and strong background in biology and elementary education is required. Preference will be given to candidates who have teaching experience in general biology and life science for elementary teachers. Research and/or public service is expected. Involvement in external funding and operation of the Environmental Education Center is also required. Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Application deadline is 1 February 1991. Send curriculum vitae, three letters of recommendation to: Dr. Philip Mathis, Search Committee Chair, Box 578, Middle Tennessee State University, Murfreesboro, TN 37132.

CORAL REEF ECOLOGIST. The Department of Biological Sciences at Florida Institute of Technology (FIT) invites applications from individuals with strong research and teaching credentials in coral reef ecology with emphasis on coral reef fish, population dynamics, and ecosystems. The candidate will be expected to develop an active research program within the Florida/Caribbean habitat with potential for extramural funding, direct M.S. and Ph.D. students, participate in teaching and cooperate with faculty in related areas of marine and conservation biology. Ph.D. and 2 years of postdoctoral experience essential. Position is available for Fall of 1991. Rank is open, and salary will be commensurate with qualifications and experience. Send curriculum vitae, a concise plan for future research, and names of three references to: Dr. Sally Head, Head, Department of Biological Sciences, 150 West University Boulevard, Melbourne, FL 32901-6988. FIT is an Equal Opportunity/Affirmative Action Employer. Applications from qualified women, ethnic minorities, and the handicapped are encouraged.

University of California, San Diego. TENURED/ TENURE-TRACK POSITIONS IN BIOCHEMISTRY AND IN PHYSICAL CHEMISTRY. The Chemistry Department of the University of California, San Diego invites applications for two positions, each in the areas of biochemistry and physical chemistry. Candidates must have a Ph.D. and a demonstrated ability for creative research and for teaching at the undergraduate and graduate levels. Of special interest for the biochemistry appointment are the areas of structural biochemistry and biochemical regulation. Candidates at all levels are encouraged to apply. Open positions subject to availability of funds. All applications received through 11 February 1991 will be given thorough consideration. Salary commensurate with qualifications and based on the University of California pay scale. Candidates should send curriculum vitae, a list of publications, reprints of up to five research papers, a summary of research interests and names and addresses of three references to: University of California, San Diego, Chairman, Biochemistry (Physical Chemistry) Search Committee, Department of Chemistry, 9500 Gilmore Drive, La Jolla, CA 92039-0332. The University of California is an Equal Opportunity/Affirmative Action Employer.

JUNIOR/SENIOR FACULTY POSITIONS. MOLECULAR BIOLOGY AND MACROMOLECULAR STRUCTURE. The Department of Biochemistry and Molecular Biology at Indiana University School of Medicine is seeking applicants for two full-time, tenure-track positions at the ASSISTANT, ASSOCIATE, OR FULL PROFESSOR level. A Ph.D. or equivalent degree and postdoctoral experience in a relevant area is expected. It is expected that the new faculty will develop independent research programs with the potential for significant impact on the life sciences. At least three years of postdoctoral experience are required. Salary will be commensurate with qualifications and experience. Applications are invited from candidates with research interests in (i) EUKARYOTIC MOLECULAR BIOLOGY, especially gene expression/ regulation, (ii) MACROMOLECULAR STRUCTURE, especially x-ray crystallography or NMR. Applicants should send curriculum vitae, copies of their current publications and letters from at least three references to: Applications will be considered until the position is filled. Inquiries about this position should be addressed to: J. Robert Darnell, Chairman, Search Committee, Department of Biochemistry and Molecular Biology, Indiana University School of Medicine, Indianapolis, IN 46202-5122. Indiana University is an Equal Opportunity/Affirmative Action Educator, Employer, and Contractor.

FROSTBURG STATE UNIVERSITY (FSU) DEPARTMENT OF BIOLOGY. B.S. and M.S. degrees in biology, wildlife, and fisher- many management offer 20 majors. VERTEBRATAE BIOLGY: reopened search. Three-year contractual FACULTY POSITION (with possible renewal as tenure track), to teach courses in invertebrate and vertebrate general ecology and may participate in other vertebrate zoology courses. Subject to funding and/or approval to hire. Ph.D. re- quired. Salary range from $25,900 to $33,000. applications from or letters of recommendation to: Department of Biology, Frostburg State University, Frostburg, MD 21532. Women/majors are encouraged to apply. Affirmative Action/Employer.

The Department of Internal Medicine is offering the opportunity for a TENURE-TRACK APPOINTMENT in the area of health services research as a position of the General Medicine, Clinical Epidemiology, and Health Services Research Division. A secondary appointment will also be available in the Graduate Program in Hospital and Health Administration/Center for Health Services Research and Teaching Appointment. The appointee will provide access to superior research resources and mentor as well as doctoral students. The Department of Internal Medicine has outstanding clinical facilities, significant funding for research start-up expenses, opportunities to participate in hospital-wide quality assurance programs and in other medico-legal research centers, and the ability to cooperated in health services research initiatives, and a VA-centered health services research program. Qualifica- tions: M.D. degree, Board eligibility in internal medici- nology. Applicants are expected to have strong skills in research related to health services and in teaching and clinical medicine. Responsibilities: Development of and participation in research programs in health services research commensurate with the demonstrated ability of the applicant. The applicant will be expected to partici- pate in teaching and clinical activities of the Department of Medicine. Salary is based on the academic level of entry and on the applicant’s qualifications and responsibili- ties. Women and minorities are encouraged to apply. Applications are invited from qualified candidates with demonstrated or potential ability to conduct research in health services research. Direct inquiries or submit curriculum vitae and bibliograp- hy to: Richard P. Wenzel, M.D., Chair, Search Committee, Department of General Medicine, Clinical Epidemiology and Health Services, Department of Internal Medicine, The Uni- versity of Iowa, 200 Hawkins Drive, Iowa City, IA 52242. The University of Iowa is an Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Available to study the electrophysiology of mammalian glial cells. Voltage-clamp, single channel recording, and imaging techniques will be used to characterize the ion channels of cultured astrocytes. Previous experience with astrocyte cell culture or co-cultures of astrocytes and vascular endothelial cells is desirable. Send curriculum vitae and names of three references to: Dr. Eric Newman, Department of Physiology, University of Minnesota, 6-225 Mayo Hall, 435 Delaware Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer and is committed to the principles of affirmative action and encourages applications from women and minorities.

MOLECULAR NEUROBIOLOGY/ PHARMACOLOGIST. Multidisciplinary laboratory seeks scientist at POST- DOCTORAL/RESEARCH ASSOCIATE level to join in isolation, molecular, and functional characterization of neuronal targets, neurotransmission mechanisms, and hormone receptors. Contact: Dr. Charlene W. Witten, Department of Pharmacology, University of Rochester, P.O. Box 845, Rochester, NY 14625-0845. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

ENVIRONMENTAL SCIENTIST. Barnard Col- lege Department of Environmental Science seeks earth system scientist, biochemistry, and/or BIOLOGY PO- SITION. Rank open. Research opportunities in earth sciences at Columbia's Lamont-Doherty Geological Observatory. Please send brief state- ment of teaching and research interests, and three letters of recommendation by 1 February 1991 to: Dr. Julia Chase, Barnard College, Columbia University, New York, NY 10027. Affirmative Action/Affirmative Action Employer.

PLANT MOLECULAR BIOLOGISTS PENNSYLVANIA STATE UNIVERSITY. The Department of Biology invites applications for new FACULTY POSITIONS in plant biochemistry and/or pharmacognosis. PLANT BIOCHEMISTRY: Areas of interest include, but are not restricted to, the role of hormones in development, environmental stress, and biochemical ecology. PLANT MORPHOGEN- ESES: Areas of interest include, but are not restricted to, genetic regulation of morphogenesis, molecular basis of morphological evolution, and structure/function relations of Briggs and Women's Hospital. One position re- quires expertise in molecular biology and, in particular, experience in expression vectors and production of re- combinant proteins. Applicants with experience in molecu- lar analysis of chromosomal abnormalities occurring in hu- man cancer. Forward curriculum vitae and three letters of recommendation to: Albans J. L. Alphons, Ph.D., The Wistar Institute, 36th at Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL POSITIONS. Available in re- search related to autoimmune diseases at the Harvard Medical School and the Center for Neurologic Diseases of Brigham and Women's Hospital. One position re- quires expertise in molecular biology and, in particular, experience in expression vectors and production of re- combinant proteins. Applicants with experience in molecu- lar analysis of chromosomal abnormalities occurring in hu- man cancer. Forward curriculum vitae and three letters of recommendation to: Albans J. L. Alphons, Ph.D., The Wistar Institute, 36th at Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL POSITION. Available to study the electrophysiology of mammalian glial cells. Voltage-clamp, single channel recording, and imaging techniques will be used to characterize the ion channels of cultured astrocytes. Previous experience with astrocyte cell culture or co-cultures of astrocytes and vascular endothelial cells is desirable. Send curriculum vitae and names of three references to: Dr. Eric Newman, Department of Physiology, University of Minnesota, 6-225 Mayo Hall, 435 Delaware Street S.E., Minneapolis, MN 55455. The University of Minnesota is an Equal Opportunity Employer and is committed to the principles of affirmative action and encourages applications from women and minorities.

Molecular Neurobiologist/ Pharmacologist. Multidisciplinary laboratory seeks scientist at POST-DOCTORAL/RESEARCH ASSOCIATE level to join in isolation, molecular, and functional characterization of neuronal targets, neurotransmission mechanisms, and hormone receptors. Background in molecular biology or pharmacology desirable. Permanent resident/U.S. citizen preferred. Send curriculum vitae and bibliography to: Dr. Charlene W. Witten, Department of Pharmacology, University of Rochester, P.O. Box 845, Rochester, NY 14625-0845. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.
OPPORTUNITIES IN PHARMACOLOGY

Neurogen Corporation, a young dynamic company in the field of neuroscience, is currently expanding its staff in pharmacology. We offer several opportunities for innovative scientists wishing to join our multidisciplinary staff. Neurogen scientists are developing novel therapeutics for neurological and psychiatric disorders.

Senior Scientist (Pharmacokinetics)

Candidates must have a Ph.D. degree in Pharmacology, Analytical Chemistry or a related discipline and have several years postdoctoral experience in the absorption, distribution and metabolism of drugs. Candidates should have a solid background and publication record in the pharmacokinetic evaluation and interpretation of analytical data for central nervous system active compounds. Previous industrial experience would be helpful.

Postdoctoral or Senior Scientist in vivo dialysis

Candidates must possess a Ph.D. degree in Pharmacology or Biochemistry and have prior experience with in vivo dialysis approaches to neurotransmitter release or action. Senior Scientist level position requires additional in depth postdoctoral experience and significant publication record in this area.

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Neurogen Corp.

National Institutes of Health

Research Scientist and Postdoctoral Fellows

TASTE AND SMELL

Research Scientist (D.M.D., M.D., Ph.D., D.D.S.) sought to head a new research project on Taste and Smell. Areas of investigation will include the nature of the cell surface receptors, mechanisms of signal transduction and membrane channels. Training in molecular biology, protein chemistry and cell biology is desirable. Positions for post-doctoral fellows also are available. Salary is commensurate with experience. Send Curriculum Vitae and names of references to:

Dr. Lois Salzman, Deputy Director
Intramural Research Program
National Institute of Dental Research
National Institutes of Health
9000 Rockville Pike
Building 30, Room 121
Bethesda, MD 20892

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Mammalian Genetics

Agracetus, a biotechnology research company owned by W.R. Grace & Co., is seeking highly motivated individuals to join an expanding research program addressing broad applications in mammalian genetic modification.

Postdoctoral Fellowships

Candidates should have a Ph.D. with specialized interests in one or more of the following areas: construction and use of mammalian gene expression vectors, molecular biology, immunology, analysis of gene expression in transfected mammalian cells or transgenic animals. Previous experience in cell biology, cell culture manipulations, tissue extractions and biochemical assays is highly desirable. Appointments of 2 years' duration will enable independent research within a highly collaborative group of scientists. Publication of competitive research findings is encouraged.

Research Scientists

Candidates should hold a Ph.D. degree and will have demonstrated experience in mammalian gene transfer, gene therapy, vector construction, mammalian physiology, somatic cell and biochemical genetics, or broadly related areas of research. Relevant postdoctoral experience is highly desirable. The successful candidates will initiate new research projects and join ongoing programs directed toward technology development to enable mammalian genetic modification.

Agracetus offers a competitive salary and a comprehensive benefits package. Our research complex, located near the University of Wisconsin in Madison, provides an ideal setting for both career and lifestyle enhancement. Send resume to Dr. Kenneth Barton, Director of Research, Agracetus, 8020 University Green, Middleton, WI 53562. We are an Equal Opportunity Employer.

Agracetus

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The Max-Planck-Institute for Biochemistry seeks outstanding candidates (M.D., Ph.D.) for group leader positions. Research programs at the institute encompass the areas of molecular, structural, developmental and cell biology, membrane biochemistry, virus and viroid research as well as molecular pathology. Cooperation with hospitals on the molecular basis of human disorders has been established.

The successful candidates will have had several years of postdoctoral experience and an outstanding record of achievement in one of these research areas. The available positions represent five year appointments at a level equivalent to associate professor (C3). Appropriate laboratory space, funds for laboratory set-up and operation, and additional salaries for one Ph.D. level scientist and one technician will be guaranteed; fellowships for postdoctoral fellows and graduate students are subject to negotiation.

Candidates should submit their curriculum vitae, a list of publications, a short description of their future research objectives, and the names of three scientists familiar with the candidate's research accomplishments and scientific potential to:

Professor P.H. Hofschneider
Chairman, Search Committee
Max-Planck-Institute for Biochemistry
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Important private Medical Research Center in the Paris area, member of one of the leading pharmaceutical companies in France is hiring for its

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Please submit CV and a hand-written letter quoting ref. 10300 to Media System, 6 Impasse des 2 Cousins, 75849 Paris Cedex 17.

Department of cellular and molecular biology

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Qualifications are a relevant Ph.D. plus at least 4 years related postdoctoral experience. A demonstrated ability to conduct independent and creative research is required.

Send resume & job history to JoAnn McHugh, P.O. Box 1986, Berkeley, CA 94701.

**Molecular Biologist**

**Institute for Biomolecular Science**

**University of South Florida**

The University of South Florida Institute for Biomolecular Science, an interdisciplinary consortium of University faculty and scientists, and the Department of Biology invite applications for a tenure-track position at the level of Assistant or Associate Professor. Candidates should have a Ph.D. and postdoctoral research experience in the area of eukaryotic molecular biology (plant or animal). This is one of four positions and an Endowed Chair that will be filled by the Institute over the next two years as part of a State-funded expansion program. The position is funded through the Institute, with academic appointment in the Department of Biology. Excellent laboratory facilities, start-up funds, and opportunities for collaboration are available. Title and salary (nationally competitive) will be commensurate with qualifications and experience. The successful candidate would be expected to establish a strong, externally-funded research program, to train graduate students at the Ph.D. level, and to teach an undergraduate course such as cell biology or general genetics and a graduate course in her/his area of specialty. The position offers an excellent opportunity for professional growth in an attractive living and working environment. USF is a comprehensive research and teaching university located in the Florida Gulf Coast area, a region of the State recognized for its rapid growth and high technology focus. Applicants should forward a letter of interest, curriculum vitae, reprints of representative recent publications, and statements of research and teaching interests. Candidates should also arrange for three letters of recommendation to be forwarded. Deadline for receipt of applications, supporting documents, and letters is February 8, 1991. Address all materials and correspondence to: Dr. Gregory J. Stewart, Chairperson, Molecular Biology Search Committee, Institute for Biomolecular Science, LIF 138, University of South Florida, Tampa, Florida 33620-5150.

**Veterinary Pathologist**

Rohm and Haas Company, a leading specialty chemical company with global research and business interests, has an immediate opening for a Veterinary Pathologist. This position is in our Toxicology Department, located at our Corporate Research Center in Spring House, PA — about 20 miles north of center-city Philadelphia.

The candidate of choice must have a DVM/VMDS degree with ACVP certification, as well as experience in toxicologic pathology. Research interests in the mechanisms of toxicity and cell proliferation are desirable. Outstanding interpersonal and communicating skills, for effective interaction with the academic community and regulatory agencies, are essential.

We offer a competitive program of salary and benefits, including relocation assistance. We also invest heavily in research and in programs to foster the professional growth of our scientific staff. Candidates must be legally entitled to hold regular employment in the U.S.

For consideration, please forward your resume or C.V., to: Corporate Staffing #2490, Research Recruiting, B-70, Rohm and Haas Research Laboratories, 727 Norristown Road, Spring House, PA 19477.

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**Veterinary Pathologist**

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Entomology Coordinator, will have responsibility for providing overall scientific direction for the insect rearing and bioassay laboratory. The laboratory provides insects for greenhouse and field screening by plant breeders and conducts bioassays to evaluate genes and gene products. A major responsibility will be the development of new, efficient insect bioassay methods for insects of corn, soybeans, sorghum, alfalfa, wheat and sunflower. The Entomology Coordinator will hire, supervise and develop project employees. The position will require extensive collaboration with Biotechnology and Breeding Department scientists. The Entomology Coordinator will also have responsibility for coordinating and supervising the activities of the field entomology manager.

A Ph.D. in entomology and 3-5 years experience in the laboratory aspects of entomology are required. Experience with insect bioassays is preferred. Pioneer Hi-Bred International, Inc. is an Equal Opportunity Affirmative Action Employer. Send resume with at least three references to:

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Plant Breeding Division
Dept. of Research Specialists
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7301 N.W. 62nd Avenue
P.O. Box 85, Johnston, IA 50131
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**STAFF ASSOCIATE FOR PSYCHOLOGICAL RESEARCH ON SOCIAL SCIENCE RESEARCH COUNCIL, NEW YORK**

The Social Science Research Council is planning to expand the range of its behavioral science programs and is recruiting a research psychologist for the position of Staff Associate. The initial focus of the expanded program will emphasize topics in child, adolescent, and adult development, it will emphasize research and theory building about cross-societal, multi-ethnic and multi-cultural differences and commonalities in life-span developmental processes and transitions. The Staff Associate also will assist the Council in identifying a range of additional intellectual opportunities to engage the discipline of psychology more fully in the interdisciplinary agenda of the Council.

Duties would include: establishing and maintaining relationships with individual scholars, academic institutions, foundations, and other organizations; preparing and negotiating grant proposals; planning seminars, workshops, and conferences; and overseeing fellowship and grants competitions. Staff Associates undertake major responsibilities for developing and administering several programs of research and research planning efforts by committees and consortia of Council-chosen scholars in the U.S. and abroad.

Applicants must have a research Ph.D. in psychology or human development and be broadly knowledgeable about developmental influences arising from both biological and sociocultural factors. Individuals with significant experience in research, program implementation, and/or science administration are encouraged to apply. The Council strongly encourages minority candidates to apply. Candidates who might take full-time leaves of absence from tenured faculty or similar positions for a period of two or three years would be considered.

Council salaries are commensurate with experience and qualifications. Provisions are made to enable staff associates to continue their professional development while at the Council.

To be assured of full consideration, candidates should submit a letter of application, curriculum vitae, samples of written or published work, and names of three professional references. The Council is seeking an applicant who can take up the position as soon as possible, but the search will continue until a suitable candidate is selected. Screening of applications will begin on December 15, 1990. Nomination and application materials should be addressed to:

Ms. Dorie Sinocchi
Assistant to the President
Social Science Research Council
605 Third Avenue
New York, NY 10158

Inquiries can be directed to Ms. Sinocchi at (212) 661-0280; Fax: (212) 370-7996

The Social Science Research Council is an Equal Opportunity Employer.

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**California Institute of Technology**

**The James Irvine Foundation Minority Postdoctoral Fellowship**

In accordance with the California Institute of Technology’s active participation and policies of affirmative action, we announce a grant award from The James Irvine Foundation to support postdoctoral fellowships for American citizens who are members of minority groups. Combined with support from Caltech, this grant will fund two fellowships each year, each with an annual stipend of $36,000, and additional research and travel funds. The duration of this appointment will be for no more than three years, beginning with the 1991-92 academic year. Fellows are eligible to participate in Caltech’s health and dental program.

The James Irvine Foundation Minority Fellowship was established to help increase the representation of minorities in the sciences and engineering. It is available to those who have received their doctorate in the sciences or engineering and who are United States citizens and are members of the following groups: Native American, African American, Hispanic, Native Alaskan, or Native Pacific Islander.

Applications should include a letter outlining desired field of research and a curriculum vitae. Three letters of reference should be submitted directly. All correspondence should be addressed to:

James Irvine Fellowship Search Committee
California Institute of Technology
Mail Code 210-31
Pasadena, California 91125

Completed applications with references should arrive at Caltech before March 15, 1991.

Fellowship candidates will automatically be considered for other available postdoctoral positions at Caltech in their fields of interest.
AFFIRMATIVE ACTION/EQUAL OPPORTUNITY EMPLOYER.

268,600 Highland Rd. 94720.

DNA and Genetics.

in January 1991. Submit curriculum vitae to: Edward T. Zawada, j.d., Provost and Chairman, University of South Dakota School of Medicine, P.O. Box 5046, Sioux Falls, SD 57117-5046. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOW

FOX CHASE CANCER CENTER

Research involves the study of molecular mechanisms of anticancer drug action in colon tumors. Familiarity with the methods of molecular biology preferred. Submit resume and names of three references to: Dr. Peter O'Dwyer, Personnel Representative-POD, Fox Chase Cancer Center, 7701 Burholme Avenue, PhiladelphiA, PA 19111. Equal Opportunity Employer.

LAKE CHAMPLAIN SUMMER FELLOWSHIP

Available July/August 1991 for outstanding postdoctorate scholar to participate in research on Lake Champlain in such areas as physical processes, toxicos, and bioenergetics. Successful candidate will work closely with members of Lake Champlain Research Consortium. Funds available for stipend, living expenses, and modest supply support. Send letter of inquiry, including research interests, and names of three references to: Dr. Alan McIntosh, Vermont Water Resources Research Center, University of Vermont, Burlington, VT 05405.

FELLOWSHIPS IN MATHEMATICS

AND MOLECULAR BIOLOGY

The Program in Mathematics and Molecular Biology has graduate and postdoctoral fellowship support available. Current topics in the program include geometry, topology, and sequence analysis of DNA; molecular dynamical simulations of DNA and protein structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Initial contact deadline: 15 January 1991. Submit curriculum vitae and names of references to: Dr. C. B. Chacko, Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. An Equal Opportunity/ Affirmative Action Employer, M/F/H.

POSTDOCTORAL ASSOCIATE

A post-doctoral position is available immediately to study protein methylation in eukaryotic cells and their regulation during gametogenesis. Background in protein chemistry or molecular biology preferred. Send curriculum vitae and names of three references to: Dr. C. B. Chacko, Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. An Equal Opportunity/ Affirmative Action Employer, M/F/H.

POSTDOCTORAL ASSOCIATE

Study and identify the role of pepsinogen in acute gastric lesions so that the prevalence, therapy, and natural history of gastritis may be altered in humans. Delineate chief cell abnormalities in gastric mucosal lesions from isolated gastric glands and cells. Identify and characterize signal transduction mechanisms for the regulatory signals involved. Ph.D. required in biology/chemistry/physiology or biochemistry, plus 3 years of training in laboratory research and detailed knowledge of acid and pepsin secretion by gastric glands; protein chemistry, receptor characterization/ purification as evidenced by previous doctoral research. Experience in research discipline. Fourty hours per week; $23,310 per year. Submit resume to: Job Service Technical Unit, Connecticut Department of Labor, 200 Folly Brook Boulevard, Westerfield, CT 06109. Refer to Job Order No. CT0379316.

POSTDOCTORAL ASSOCIATE

The Biology Department of Georgia State University has two grant-supported postdoctoral positions available in RNA virus replication, virology, and virology. Research projects focus on the regulation of RNA-dependent RNA replication of flaviviruses and the mechanisms of genetic and recombinational recombination for a new corona-like virus. Some experience in virology, recombinant DNA methods, and protein expression and purification are desired. Starting salary: $22,000 per year, with potential for 2-3 year appointment. Send curriculum vitae and three letters of reference to: Dr. Margo A. Britton, Biology Department, P.O. Box 4010, Georgia State University, P. O. Box 4010 by 15 March 1991, Georgia State University, a unit of the University System of Georgia, is an Equal Opportunity Educational Institution and an Equal Opportunity/Affirmative Action Employer. (60521)

SCIENCE

research ads reach thousands of scientists in all disciplines, worldwide.


RESEARCH ENTOOMOLOGIST/BIOCHEMIST

Corn Insects Research Unit, Ankeny, Iowa, ARS, is seeking an entomologist to join a group developing an insect management program for insect pests of corn. Successful candidate will be responsible for developing research to determine (i) factors in corn plants that attract adult European corn borer to ovipositor, (ii) chemical and physical factors that stimulate corn plants to recover after attack by armyworm or the cutworm complex, and (iii) chemical and physical factors that suppress the development and population buildup of natural enemies (micro and macro). Ph.D. in entomology is desired with training in insect or plant biochemistry, insect behavior, statistics, and basic computer skills. Must be U.S. citizen. Salary is commensurate with experience ($29,891 to $39,407). For information on the research program and/or position, contact Leslie C. Lewis at 515-954-6664. For information on application procedures/forms, contact Jane Carr at 301-544-4560. Applications in response to this advertisement should be marked IN007. Applications must be received by 12 March 1991. Mailing address: USDA, Agricultural Research Service Personnel Operations Branch, Northern Section, Building 411, Room 1E, Beltsville, MD 20705. An Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST.

Position available (3 years) to study the role of oxidants and proteins in leukocyte-mediated tissue damage (Cg. Eng. J. Med. 320, 565 (1989); Science 240, 178-181 (1990)). Strong background in cell biology/biochemistry is essential. Salary: $35-40,000. Must be U.S. citizen. Submit curriculum vitae and letters of reference to: Dr. Stephen J. Weiss, Upjohn Professor of Medicine, University of Michigan, Simpson Memorial Institute, 102 Observvory Street, Ann Arbor, MI 48109.

SENIOR ORGANIC CHEMIST. Minimum qualifications: Ph.D. in organic chemistry and 5 years of experience in postdoctoral research. Demonstrated laboratory skills in synthesis of radioactively labeled organic and organo-sulfur compounds including sugar derivatives; in carrying out microscale reactions involving handling of air-sensitive, radioactive, and toxic materials; in modern chromatographic and analytical techniques including TLC, HPLC, GC, GC-MS, Flash chromatography, H-NMR, 13C-NMR, NOE difference, COSY, DEPT, 2D, and 3D NMR. Good computer and mass spectrometry. Propose novel compounds for inhibition of enzymes unique, but not confined to, parasitic organisms including Plasmodium and Trypanosomes. Salaries will be based on knowledge of enzyme mechanisms of action (particularly methyl thioninase) and enzyme active site studies. Undertake organic synthesis of the proposed compounds utilizing expert knowledge of synthetic organic chemistry literature and skills of field. Duties include development of novel plant growth promoters including steroidal compounds, and collaboration with staff, and supervision of chemists. Base salary: $50,000 per year. Hours: 8 a.m. to 5 p.m., Monday to Friday. Send resumes to Job Order No. CT067311, 100 W. State Street, N.E., Room 201, Salem, OR 97301. An Equal Opportunity Employer.

RESEARCH ASSOCIATE

Purification and characterization of proteins relevant to cardiovascular control and the pathogenesis of hypertension, the HFLC-EC analysis of catecholamines and melatonin, and melatonin metabolism. Applicant must be able to work independently and to assume responsibility for the quality control of his or her own work. The job involves the analysis of a large number of catecholamine samples from a variety of biological fluids, including blood plasma, cerebrospinal fluid, and pus. Positions available B.S. in inorganic or analytical chemistry 2 years of experience. Salary: $22,680 annually. Send curriculum vitae to: Sandy Starnes, Alaska State Employment Service, 5440 Third Avenue South, Birmingham, AL 35222. (60528)
THE SCIENCE RECRUITMENT "FOUR-DAY CLOSE"

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Cognitive Neuroscience Individual Grants-in-Aid

The McDonnell-Pew Program in Cognitive Neuroscience is accepting applications for individual grants-in-aid to support research and training in cognitive neuroscience. Applications are sought for research projects and training projects of exceptional merit that are not currently fundable through other channels, and from investigators who are not at institutions already funded by an institutional grant from the program. Preference will be given to projects that require collaboration or interaction between at least two subfields of cognitive neuroscience. The goal is to encourage broad participation in the development of the field and to facilitate participation by investigators outside the major centers of cognitive neuroscience. Submissions will be reviewed by a program advisory board chaired by Professor George A. Miller of Princeton University. Deadlines for 1991 are February 1 and August 1. Support for research is limited to a maximum of $30,000 per year for up to two years, with indirect costs included and not to exceed 10% of salaries and fringe benefits. These grants are not renewable for a third year. Postdoctoral stipends will be awarded at prevailing rates of the host institution for up to three years. Training grants to support Ph.D. thesis research of graduate students will not be funded. For further information contact: McDonnell-Pew Program in Cognitive Neuroscience, Green Hall 1-N-6, Princeton University, Princeton, NJ 08544-1010 (609-258-5014).

LIFE TECHNOLOGIES TRAINING CENTER

Life Technologies, Inc. the manufacturer of BRL brand molecular biology products and Gibco brand cell culture products, has opened a facility designed for laboratory workshops. The following workshops are scheduled in 1991:

<table>
<thead>
<tr>
<th>Topic</th>
<th>Dates</th>
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<tr>
<td>Recombinant DNA Techniques</td>
<td>January 7-11</td>
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<td></td>
<td>February 18-22</td>
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<tr>
<td>Tuition: $600</td>
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<tr>
<td></td>
<td>$550 for graduate students</td>
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<tr>
<td>cDNA Libraries</td>
<td>February 4-9</td>
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<tr>
<td>Tuition: $750</td>
<td>March 4-9</td>
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<td></td>
<td>$700 for graduate students</td>
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<tr>
<td>Transfection Techniques</td>
<td>March 18-22</td>
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<td>Tuition: $750</td>
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<td>$700 for graduate students</td>
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The Training Center is located in Germantown, Maryland, approximately 30 miles north of Washington, D.C. Convenient, affordable housing is available next to the Center.

For additional information and registration, contact: Garian Tinney, Workshop Coordinator, Life Technologies Training Center, 20271 Goldenrod Lane, Germantown, MD 20877.

Phone: (800) 828-8886
Fax: (301) 258-8212

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POSITIONS OPEN

SENIOR RESEARCH SCIENTIST

Outstanding opportunity in 200-bed pediatric hospital with separate basic research facility. Assist director of medical research in developing and supervising research, education, and postdoctoral training programs, while maintaining independent research programs. Position is funded 50% by the hospital. Requires current professional rank, ability to maintain NIH funding, and familiarity with intellectual property, patent applications, and NIH application procedures. For more information, call Yvette Williams at 415-428-8420 or send your resume to Dr. Charles L. O'Kane, Children's Hospital, Oakland, 747 52nd Street, Oakland, CA 94609. Equal Opportunity Employer.

RESEARCH SCIENTIST. Qualified persons are needed to assist in the execution and management of the research programs within the Research Institute of Pharmaceutical Sciences in collaboration with the program coordinators. The Research Institute is particularly seeking applicants to support the Drug Discovery and Development Program. Experience in demonstrating and recording research productivity in the area of biological evaluation of natural products. Salary range is $22,000 to $30,000 based on qualifications. Application deadline is open until filled. Starting date is 1 January 1991 or as soon thereafter as possible. Contact: Dr. James D. Rice, Research Institute of Pharmaceutical Sciences, University of Mississippi, 411 Faser Hall, University, MS 38677. Telephone: 601-232-7132. Women and minorities are encouraged to apply.

HARVARD GENOME LABORATORY
DNA RESEARCH SCIENTIST

Molecular biologists with 3 to 6 years of postdoctoral experience wanted to make a career in an ultra-rapid DNA sequencing program. The Harvard Genome Laboratory, a dedicated facility that will sequence microorganisms at a 4 M/hour rate, seeks to fill a troubleshooting position. Send curriculum vitae and the names and addresses of three references to: Professor Walter Gilbert, The Biological Laboratories, 16 Divinity Avenue, Cambridge, MA 02138. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE. Participate in ongoing research on the regulatory mechanisms in hemostasis, specifically, platelet physiology. Present data at seminars, conferences and publish data in scientific journals. Skills: radio-immunological assay, computer programs and technique cultures; PAGE, protein isolation and characterization; UV and visible spectroscopy; lipid isolation and identification. Familiarity with computer programs (preadjustment analysis, maintenance and updating of reference data base). Ph.D. (biochemistry) plus postdoctoral (2 years) plus research fellow (2 years). Salary: $21,000. Send two copies of your resume to: The Massachusetts Department of Employment and Training, Special Programs, 19 Stainford Street, Boston, MA 02114 and refer to Job Order #91130.

COURSES AND TRAINING

MEDICAL UNIVERSITY OF SOUTH CAROLINA (MUSC) offers programs leading to Ph.D. and M.D. degrees in the basic biomedical sciences (anatomy, biochemistry, microbiology/immunology, pathology, pharmacology, physiology), biostatistics, epidemiology, and pharmaceutical sciences, and molecular and cellular biology/medicine. Stipends ($10,000 to $15,000) available to qualified students. Contact: College of Graduate Studies, MUSC, 171 Ashley Avenue, Charleston, SC 29425.

NASA PLANETARY BIOLOGY INTERNSHIP Program, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for awards of $2000 plus travel to participate in research at NASA centers and collaborating institutions for approximately 8 weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomaterialization, and origin and early evolution of life. Application deadline: 1 March 1991. For information/applications, contact: Greg Hinkle, Planetary Biology Intern Programs, Department of Botany, University of Massachusetts, Amherst, MA 01003. An Equal Opportunity/Affirmative Action Institution.


MEETINGS

3rd International Workshop on MOLECULAR AND CELLULAR BIOLOGY OF PLASMINOGEN ACTIVATION, 8 to 13 May 1991, at Elsinore, Denmark. Organized by F. Blasi and K. Daus (Copenhagen), W. F. Mangel (Brookhaven), D. B. Raffin (New York). Sponsored by the Danish Cancer Society. The workshop will focus on the various aspects and components of plasminogen activation system, including structure, regulation, and role in physiological as well as pathological conditions. Participants will be selected to present a limited number of abstracts (one page) received by 31 January 1991. Abstracts are requested for further information: 3rd Plasminogen Activation Workshop, Finnen Laboratory, Strandboulevard 49, DK-2100 Copenhagen Ø, Denmark. Telephone: 45-31-386633, ext. 5715/5616. FAX: 45-31-385450.

UV-B WORKSHOP

Workshop to define measurements requirements and network design for UV-B monitoring, Denver, Colorado, 23 to 25 January 1991. The workshop will address questions relating to the measurement and monitoring of UV-B radiation, including the development of a plan for a national scale monitoring network. Focus will be on the following topics:

- Identification of the spectrometric measurements of UV-B that are required for the various user communities, both for intensive research efforts and long-term monitoring.
- Definition of the instrument characteristics and specifications, according to the monitoring, necessary to meet the measurement requirements.
- Development of a strategic plan for research and national scale monitoring programs to meet these needs.

The workshop is sponsored by the Cooperative State Research Service of the U.S. Department of Agriculture and the Department of Resource Ecology, Marine Biological Laboratory, Colorado State University. Contact: Office of Conferences Services, Colorado State University, Fort Collins, Colorado 80523, telephone: 293-491-6222 or FAX: 303-491-0667, for further information.

ANNOUNCEMENTS

TWO MILLION DOLLARS AVAILABLE FOR BATTEN DISEASE

The Children's Brain Disease Foundation is pleased to announce that two million dollars is available for Batten disease research. A “Request for Applications” concerning research on the neuronal ceroid lipofuscinosis (NCL or Batten disease) has just been issued. Send a letter of intent by 1 February 1991 to: Karen Skinner, National Institute of Neurological Disorders and Stroke, Room R3-8C-04, Bethesda, MD 20892. Telephone: 301-496-6821. Application deadline: 1 March 1991. Please send copy to: Children's Brain Disease Foundation, 511 Parnasus Avenue, Suite 900, San Francisco, CA 94117.

EOSINOPHILIA-MYALGIA SYNDROME

The Scientific Advisory Council of Showa Denko America (SDA), Inc., invites letters of intent from persons and institutions interested in conducting research on the Eosinophilia-Myalgia Syndrome. All aspects of the syndrome, from prevention through rehabilitation, are of interest. A letter of intent should identify the principal investigator, briefly describe the purpose of the research and the proposed methodology, and estimate the total time and costs involved. The Scientific Advisory Council will encourage the development of contract proposals for those projects that are of interest to SDA, Inc. Letters of intent may be sent to: Arthur I. Holleb, M.D., Senior Medical Advisor Showa Denko America, Inc., 280 Park Avenue, 27th Floor, West Building New York, NY 10017.

SITUATIONS WANTED

BIOLOGIST, Ph.D. (1985). Six years of college teaching experience (biology, physiology, anatomy). Seeks relocation (teaching) within 100-mile radius of Baltimore, Maryland. Box 147, SCIENCE.


MEMBRANE PROTEIN BIOCHEMIST, Ph.D. Experience in capillaries, membrane bound enzymes, HPLC, FPLC, EIEF, SDSPAGE, Western blotting, autoradiography, and clotting assays. Seeks R&D position. Box 52, SCIENCE.

MICROCOMPUTER ENGINEER. Seeking design assignments for electromechanical instrument and test apparatus development or support your effort. 3080 Horseman Lane, Falls Church, VA 22042. Telephone: 703-553-1236.

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- Performance, applications flexibility, and low operating cost make Isco's V the value leader among conventional variable UV-vis detectors.
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- Our FL-2 gives you the selectivity and sensitivity of fluorescence detection at an affordable cost.

Solvent delivery
Reduce operating cost and maintenance hassles with the right HPLC solvent delivery. This ternary gradient system gives you single-pump convenience and economy without the nuisance of continuous sparging. Available inert construction is biocompatible and impervious to buffers.

Other Isco solvent delivery options cover everything from gradient microbore LC to gram-scale prep work. And modular flexibility makes it easy to get just the capabilities you need.

Autoinjector
Looking for reliable HPLC automation at a fair price? Here's the low-cost, workhorse autoinjector that even handles large sample volumes.

Isis holds up to 114 samples and can inject from a wide variety of test tubes and standard vials. It's reliable, interfaces easily with any brand HPLC and requires no compressed gas hookup. And Isis is an even better value when you get it in a complete, automated Isco HPLC system!

ProTeam™ LC columns
For biopolymer separations, Isco's comprehensive line of ProTeam LC macroporous HPLC columns now includes a new option: non-metallic PEEK construction for added assurance of biocompatibility.

ProTeam LC columns are available with a wide range of Synchromax packings. You can get them in the same microbore to prep sizes as our standard columns. And all Isco columns are individually tested and furnished with a test chromatogram.

All Isco instruments carry a three-year parts and labor warranty. Call toll-free and discover how affordable Isco quality can be.
Gilson fraction collectors have always been reliable. Our newest offers 98% problem-free performance.

Whether you need simple or sophisticated collection techniques, the one thing you need is a collector that performs day-in and day-out. Without jamming. Without breaking down. That’s the kind of reliability built into every Gilson fraction collector... from the very first in 1957 to the very latest introduced in 1986.

**Stationary rack system is one of our secrets to problem-free performance.**

Many collectors have rotating carousel racks. Some of our earliest models did, too. But we soon recognized the advantages of a stationary rack. With fewer moving parts, the chance of mechanical problems is greatly reduced. The FC 203, since its introduction three years ago, has achieved a problem-free performance record of 98%. The stationary rack system is just one of the reasons why.

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FC 80 and FC 100 micro-fractionators: Proven performers for simple time and drop collection. Many of these units have been in use for more than 15 years. Racks hold 80 or 100 tubes.

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(In Wisconsin, call 608-836-1551.)

Gilson Medical Electronics, Inc., Box 27, 3000 W. Beltline Hwy., Middleton, WI 53562 USA, Tel: 608-836-1551, TLX: 26-5428, FAX: 608-831-4451

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