POSITIONS OPEN

ASSISTANT PROFESSOR. Tenure track, Department of Microbiology/Immunology. Successful candidate will develop an independent fundable research program in any subdiscipline of microbiology, parasitology, or immunology; and also participate in the graduate program of the Department. Ph.D. required. Submit letter of application, curriculum vitae with research interests, and names of at least three references to: G. H. Chairwoman, Department of Microbiology/Immunology, Kirkville College of Osteopathic Medicine, 800 West Jefferson Street, Kirkville, MO 63501. Equal Opportunity/Affirmative Action Employer.

Applications are invited for a tenure-track appointment as ASSISTANT PROFESSOR OF SURGERY within the Department of Surgery/Division of Immunology and Organ Transplant. This American Board of Surgery qualified surgeon will have successfully completed a 2-year fellowship in transplantation. Laboratory experience: at least 1 year in immunogenetics as well as cardiac and renal transplantation in rats is required.

Submit application, including curriculum vitae and letters of recommendation, no later than 1 May 1991 to: Barry D. Kahan, Ph.D., M.D., University of Texas Health Science Center at Houston, 6431 Fannin, Suite 6240, Houston, TX 77030. The University of Texas Health Science Center is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR

The Department of Microbiology, University of New Mexico School of Medicine is appointing a junior level of ASSISTANT PROFESSOR. We are most concerned to find a neuroscientist working at the TISSUE level, and we hope with this appointment to strengthen the already substantial representation at the research level on vision and learning development. Candidates should (by 1 June 1991) send curriculum vitae, a statement of current research interests, and the names of three individuals willing to provide letters of evaluation to: Professor Peter Sterling, Systems Neuroscience Search, Department of Anatomy, University of Pennsylvania, Philadelphia, PA 19104-6058. Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR VERTEBRATE BIOLOGY

Search continued. Tenure-track position available starting September 1991. Hollins College, a private 4-year liberal arts college for women, seeks a vertebrate biologist for its new Department of Biological Biology, comparative anatomy, embryology, and histology. Teaching load is two courses per semester. Experience in scanning electron microscopy and research. Candidate is expected to develop a research program involving undergraduate students. Ph.D. required. Curriculum vitae, statement of teaching and research interests, transcripts, copies of significant publications, and three letters of reference should be sent to: Dr. Harriet Gay, Chair, Department of Biology, Hollins College, P.O. Box 9616, Roanoke, VA 24014 by 1 May 1991. Equal Opportunity Employer.

STANFORD UNIVERSITY

DEPARTMENT OF ANESTHESIA

Applications are invited for a position as a RESEARCH ASSISTANT PROFESSOR of neurophysiology in the Department of Anesthesia. This position does not lead to tenure. Credentials should include a Ph.D. and at least 3 years of postdoctoral experience in peripheral sensory physiology, as well as CNS synaptic neurophysiology and pharmacology. Prior research in anesthesiology mechanisms is desirable. The appointee will be expected to develop or maintain a funded research program of high quality and to participate in training graduate students and fellows. Stanford University is committed to increasing representation of women and members of minority groups. Candidates are encouraged to apply for this position or any other position in the Department. Stanford University is an Affirmative Action/Equal Opportunity Employer. Applications should include curriculum vitae, a statement of research interest and accomplishments, and the names and addresses of three referees. Applications sent before 31 January 1992 will be given highest consideration.

H. Barrie Fairley, M.B., B.S. Professor and Chairman Department of Anesthesia Stanford Medical Center Stanford, California 94305-117

VISITING SCIENTIST (ASSISTANT PROFESSOR level) in prokaryotic molecular genetics. Requirements for this 2-year position include Ph.D. or M.D. and 3 years of postdoctoral experience. Preference will be given to candidates with experience in bacterial genetics, gene fusion, cloning and analysis of DNA, and related skills. Successful candidates will collaborate with scientists in the Departments of Microbiology and Immunology. Applications should be sent to: John K. Spitznagel, M.D., Professor and Chairman, Microbiology and Immunology, Emory University, Atlanta, GA 30322.

Emory University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

WASHINGTON UNIVERSITY IN ST. LOUIS

TENURE-TRACK ASSISTANT PROFESSOR

MOLECULAR BIOLOGY AND PHARMACOLOGY

Washington University School of Medicine is recruiting an individual at the level of Assistant Professor in the tenure track. Outstanding scientists working within the broad area of molecular biology will be considered with an emphasis on those who have a strong background in mammalian genetics and an interest in using transgenic mice to examine fundamental questions in gene regulation. Interested applicants should forward curriculum vitae, a short summary of research plans, and the names and addresses of three references to: Search Committee, c/o Jeffrey Gordon, Head, Department of Molecular Biology and Pharmacology, Box 8103, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. Washington University is an Affirmative Action/Equal Opportunity Employer.

SYSTEMS NEUROSCIENTIST

AT UNIVERSITY OF PENNSYLVANIA

The David Mahoney Institute of Neurological Sciences (INS) of the University of Pennsylvania invites applications for a tenure-track position in systems neurobiology. The position is at the level of ASSISTANT PROFESSOR. We are seeking to identify a systems neuroscientist who will focus on the analysis and interpretation of behavior and function at multiple levels of nervous system organization. The faculty member will be expected to develop a vibrant, productive, and innovative research program that is funded by major extramural sources. Duties will include teaching, research, and participation in graduate and medical training. The appointment will begin in the fall of 1991. Individuals interested in this position may contact the Chair, INS, Department of Neuroscience, University of Pennsylvania, 109th Street and Spruce Street, Philadelphia, PA 19104. The University of Pennsylvania is an Affirmative Action/Equal Opportunity Employer.

QUEEN'S UNIVERSITY

DEPARTMENT OF ANATOMY

Applications are invited for a special appointment as an ASSISTANT PROFESSOR OF ANATOMY which is contingent upon the applicant obtaining a Medical Research Council or equivalent scholarship. A Ph.D. and/or M.D. or D.D.S. degree and a minimum of 2 years of postdoctoral experience is required. The Department of Anatomy at Queen's University is located in new facilities in a Basic Medical Sciences Building. Outstanding candidates with strong research programs in cell biology, neuroscience, human biomechanics, and other related fields are encouraged to apply. The ability to teach in two of the three areas: human gross anatomy, neuroscience, or embryology, is strongly desired, as is an interest in the training of students in all three areas. The appointment will be an asset. Candidates should arrange to have a copy of their curriculum vitae and three letters of recommendation sent to: Dr. M. G. Jones, Professor and Head, Department of Anatomy, Faculty of Medicine, Queen's University, Kingston, Ontario Canada K7L 3N6. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents. Queen's University is an Employment Equity Program and encourages applications from all qualified candidates, including women, Aboriginal peoples, people with disabilities, and visible minorities. Deadline for receipt of applications and letters of recommendation is 10 May 1991.
BIOLGY: ASSISTANT PROFESSOR. Full-time tenure-track position at 901. Expected appointment date is July 1, 1991. The Loyola University of Chicago is an Affirmative Action/Equal Opportunity Employer.

TRANSMISSION IMMUNOLOGIST
LOYOLA UNIVERSITY OF CHICAGO

The Loyola University of Chicago cardiac transplantation program is currently seeking for an immunologist to establish a high quality basic research program in transplantation immunology. A tenure track will be granted in the Department of Medicine in the Division of Transplantation Immunology and Immunochemistry at the ASSISTANT OR ASSOCIATE PROFESSOR level. Candidates should have a Ph.D. and a record of established research in the areas of alloantigen rejection, transplantation tolerance, and allograft vascular disease. Candidates must be willing to participate in graduate and medical students teaching. While the position is expected to obtain extramural funding, the salary is not dependent from grant funds. Please submit curriculum vitae, two copies of relevant papers, description of research goals, and three supporting letters to:

Maria Rosa Costanzo-Nordin, M.D.
Medical Director
Cardiac Transplant Program
Loyola University of Chicago
Maywood, IL 60153

The Department of Surgery at Stanford University School of Medicine is conducting a search for an experienced academic leader in general or vascular surgery to head the Division of GI Surgery. Candidates should have experience as academic surgeons with an appropriate record of clinical and laboratory research. The level of appointment will be based on the candidate's qualifications. Stanford University is committed to increasing the diversity of its academic, service, and operations groups on the basis of race, sex, national origin, age, disability, sexual orientation, and other non-protected status. Applicants must write to: Chair. Stanford University School of Medicine, Room X-328, Stanford University, Stanford, CA 94305.

ASSOCIATE PROFESSOR. Biochemistry, cell/molecular biology, Ph.D. tenure track in new department. Generous start-up funds, space, and salary. Priority is accorded candidates with extramural funding. Submit curriculum vitae, research interests, references to: David V. Cohn, Ph.D., Health Sciences Center, University of Louisville, Louisville, KY 40292. Equal Opportunity/Affirmative Action Employer.

BIOLOGY: SCIENTIST. The Hospi tal for Sick Children Research Institute invites applications for scientist positions (tenure track) with a group studying ion transport. Experience in signal transduction and/or molecular biology desired. Potential cross-appointment to the University of Toronto. Position available 1 June 1992. Please forward curriculum vitae, names and addresses of three references, and future research plans to: Dr. H. O'Brodovitch, Department of Biochemistry, The Hospital for Sick Children, 555 University Avenue, Toronto, Ontario M5G 1X8, Canada. Deadline: 15 May 1991.

BIOLOGY: DIRECTOR, REGENTRFEST INSTITUTE FOR HEALTH CARE. Indiana University and the Regenstrief Foundation seek candidates for the position of director of the RegentRFEST Institute for Health Care. M.D. and/or Ph.D. required as is the ability to administer a major health care delivery institute involved in information technology, clinical practice analysis and decision-making, and health services research. The successful candidate will be appointed to an endowed chair, and the position is linked to a faculty appointment at Indiana University. Tenure status will be commensurate with interests and experience. Interested candidates should send curriculum vitae and other relevant materials to: Mr. M. C. Rosen, Chairman, Search and Screen Committee, Indiana University School of Medicine, Pomeroy Hall 1201, South Street, Indianapolis, IN 46202. Equal Opportunity/Affirmative Action Employer.

BIOLOGY: CHAIRPERSON DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY. LOUISIANA STATE UNIVERSITY, MEDICAL CENTER, SHREVEPORT. Applications and nominations are invited for the position of CHAIRPERSON, DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY. The department currently consists of nine faculty, eight fellows, and 23 doctoral students and is responsible for teaching freshman medical students, junior medical students, and the art research programs related to molecular biology, and teaching doctoral students. The department is well equipped, well funded, and will expand new and with the opening of the ten-story Biomedical Research Building, much new and state-of-the-art equipment. The department has a strong preclinical, postdoctoral training and teaching mission and is expanding its research activities. We are looking for a candidate who is an outstanding scientist, with a record of scientific excellence as evidenced by publications and grant awards. Applications should include a curriculum vitae, a summary of research interests, and at least three letters of reference to: Dr. Dennis J. O'Callaghan, Chair, Search Committee, Department of Microbiology, Immunology and Immunology, LSUHM, 1501 Kings Highway, Shreveport, LA 71130.

LSUMS is an Equal Opportunity/Affirmative Action Employer.

The Truman Memorial Veterans Hospital, a Dean's Committee Hospital affiliated with the University of Missouri Health Sciences Center in Columbia, Missouri, is seeking an ASSISTANT CHIEF OF STAFF FOR RESEARCH AND DEVELOPMENT. The position will be responsible for directing the hospital's research program including clinical and epidemiologic research, and assisting the Medical Director in expanding the hospital's research and development efforts. The candidate must have a Ph.D. degree, a solid publication record, a demonstrated research and administrative background, strong credentials, and a commitment to expanding the hospital's research and development activities. Send curriculum vitae, letter of interest, and three references to: Mr. W. C. Shields, Chairman, VA Hospital, 800 Hospital Drive, Columbia, MO 65201. Equal Opportunity Employer.

COORDINATOR FOR SCIENCE OUTREACH. A full-time Ph.D. biologist is sought to coordinate participation in the Science Outreach program of Washington University in St. Louis. This person will help develop and teach in one or two lecture/laboratory courses offered annually for high school teachers in the areas of botany, zoology, general biology, developmental biology, or environmental biology, or evolution/ecology; will provide continuing education and science outreach activities for teachers in those areas; will assist/or initiate new outreach programs; and will help coordinate and teach courses in the St. Louis Area Community College's Science Outreach Program. The successful candidate will receive an M.A. degree at the end of their 2nd year, and have experience in science outreach. Send CV and three reference letters to: Dr. J. W. Harding, Department of Veterinary and Comparative Anatomy, Washington State University, Pullman, WA 99164, 6520. Review of applications will begin 1 July 1991, and will continue until position is filled.

Washington State University is an Affirmative Action/Equal Opportunity Educator and Employer.

POSITIONS OPEN

SCIENCE, VOL. 252
POStIONS OPEN

CHIEF, DIVISION OF NEPHROLOGY
DEPARTMENT OF INTERNAL MEDICINE
UNIVERSITY OF TEXAS MEDICAL BRANCH
GALVESTON, TEXAS 77550

The University of Texas Medical Branch invites applications for the position of chief of the Division of Nephrology in the Department of Internal Medicine. The Department of Medicine is committed to the development of strong academic programs under the leadership of Dr. Renton Powell, currently named department chair. Candidates must have an established record of academic leadership and scholarly accomplishment. The position offers an excellent opportunity to expand and further develop a broad-based clinical, research (basic and clinical) and teaching program.

Applications should include curriculum vitae. Address all correspondence to the Search Committee for Nephrology, Akhil Bidani, Ph.D., M.D., Chief, Pulmonary Division, The University of Texas Medical Branch, E-61, Galveston, TX 77550.

The University of Texas Medical Branch (UTMB) is an Equal Opportunity/Affirmative Action Employer, M/F/H/V. UTMB hires only individuals authorized to work in the United States.

ASSOCIATE DIRECTOR
INTERPRETIVE SERVICES
NATIONAL ZOOLOGICAL PARK
SMITHSONIAN INSTITUTION
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Supervises the Zoo’s Offices of Exhibit Interpretation, Education, Public Affairs, and Development. One of four associate directors reporting to the director. Experience is required in management and programmatic innovation in public education, exhibit design, public relations, and in a zoo or similar environment. Knowledge of organismic biology and other sciences or associated disciplines should be sufficient for the transformation from Zoo to BioPark is desired. For more information, contact: Office of Human Resources, Smithsonian Institution, Branch 3, P.O. Box 23924, Washington, DC 20001 (202-277-3100, ext. 246) or Office of Management Services, National Zoological Park, Washington, DC 20008 (202-673-4720). Application for federal employment (SF-171) must be received by 20 May 1991. The Smithsonian Institution is an Equal Opportunity Employer.

FIELD ARBITRATORS, THIRD PARTIES NEEDED

Senior, or retired, medical academics, Ph.D.’s, M.D.’s, D.V.M.’s needed in the field to act as independent third parties, arbitrators of disputes involving school members, student and staff, departments, and the ACUC. Confidential and fully insured. Inquiries welcome. Please submit brief curriculum vitae and per diem requirements to: BioMed Consulting Services, Inc., 5788 Wide Waters Parkway, DeWitt, NY 13214. FAX: 315-445-1058.

VETERINARY MICROBIOLOGIST. The Department of Veterinary Microbiology and Pathology at Washington State University (WSU), invites applications for a full-time TENURE-TRACK POSITION in veterinary microbiology (bacteriology or mycology). The position offers 50% time for teaching, and the successful candidate will be expected to develop independent and collaborative extramurally supported research programs in infectious diseases. In addition the position has 50% time for teaching, with existing faculty, veterinary bacteriology to veterinary students and graduate level teaching in mechanisms of infectious diseases. D.V.M. (or equivalent) and Ph.D. degrees are required. Certification by the American College of Veterinary Microbiologists is desired, and continuing education is expected. Experience teaching is required. Commitment to progress teaching time is required. Rank and salary will be commensurate with training and experience. Final screening will begin 3 June 1991, and will continue until the position is filled. Position begins fall 1991. In order to receive consideration for this position, candidates should submit curriculum vitae and names and addresses of three references to: Guy H. Palmer, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040 by 3 June 1991. WSU is an Equal Opportunity/Affirmative Action Educator and Employer. Members of ethnic minorities, women, Vietnam-era or disabled veterans, persons of disabilities, and/or persons between the ages of 40 through 70 are encouraged to apply.

ASSISTANT DIRECTOR
Center for Astrophysical Research in Antarctica
THE UNIVERSITY OF CHICAGO

The Center for Astrophysical Research in Antarctica (CARA) is seeking an Assistant Director. Located at The University of Chicago’s Yerkes Observatory in Williams Bay, Wisconsin, CARA is a Science and Technology Center, recently funded by the National Science Foundation. Its purpose is to study the formation of the Universe, galaxies, and stars using infrared, submillimeter, and millimeter-wavelength telescopes which will be deployed at the South Pole, taking advantage of the extremely cold and dry conditions on the Antarctic Plateau.

Reporting to the Director, the Assistant Director will participate in the planning and execution of both the research and non-research activities of the Center. Other responsibilities include supervision of Center staffing, preparation of short and long-term management plans, Center activity scheduling, supervision of all administrative functions (including financial), coordination of Center-wide activities (including educational programs, technology outreach, public information and corporate relations), supervision and the preparation of Center proposals, reports and publications, and organization of Center meetings and workshops.

This position requires a PhD in a physical or engineering science (physics or astronomy is desired), including experience in the management of a large scientific enterprise, as well as a broad interest in the research, educational and outreach activities of the Center. Applicants should send a resume and names of at least three references by May 31, 1991 to:

D.A. Harper, Director
Center for Astrophysical Research in Antarctica
c/o ADIR
Yerkes Observatory
Williams Bay, WI 53191-0258
(414) 245-5555 Fax: (414) 245-9805

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RESEARCH INVESTIGATOR – CADD

Bristol-Myers Squibb, a worldwide leader in the development and marketing of sophisticated pharmaceutical, medical care, consumer and nutritional products, has an exceptional opportunity for a Research Investigator in Chemistry Core Resources at the Pharmaceutical Research Institute in Wallingford, Connecticut.

This position in Computer Aided Drug Design (CADD) requires close interaction with medicinal chemists to assist them in choosing synthetic targets with the use of modeling techniques. Qualified candidates will be well versed in computational chemistry techniques such as Quantum Chemistry, Molecular Simulation, QSAR, etc., have a PhD (1-2 years Post doctoral experience preferred) in Physical Chemistry, Theoretical Chemistry or Biophysics.

Bristol-Myers Squibb offers the advantages of sustained career growth, highly competitive salaries, extensive benefits and professional support in pursuing excellence. Please send resume with salary history to: BRISTOL-MYERS SQUIBB, Pharmaceutical Research Institute, Dept. 803LB, P.O. Box 5101, Wallingford, CT 06492-7661. Equal Opportunity Employer, M/F/H/V.

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ENDOWED CHAIR IN GENETICS

The University Department of Molecular and Cellular Biology at The University of Arizona is searching for a distinguished scientist for the Lindholm Chair in Genetics which was established as a permanent memorial to George and Sally Lindholm. We wish to attract an internationally recognized scholar and educator in the field of vertebrate molecular genetics. Nominees are expected to establish an outstanding research program and act as a catalyst in the further development of academic programs in Genetics. The recipient of the chair will receive substantial start-up funds and annual support for research from the endowment.

We will begin to review applications on May 10, 1991, although applications will be accepted until the position is filled. Applications should include a letter describing current and future research and teaching interests, a curriculum vitae, and names, addresses, and phone numbers of three professional references. Nominations should include a letter supported with an abbreviated curriculum vitae of the nominee. Applications and nominations should be sent to: Search Committee for the Lindholm Chair, University Department of Molecular and Cellular Biology, Life Sciences South 444, The University of Arizona, Tucson, AZ 85721, USA. The University of Arizona is an Equal Opportunity Affirmative Action Employer. Women and minorities are encouraged to apply.

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Virology Division
Medical Research Fellow
Position #62582-5

The Virology Division has an opening for a Medical Research Fellow to develop and implement techniques used to analyze drug sensitivity of clinical HIV samples. The selected candidate will also develop and implement new methodology for studying HIV replication and development of resistance, and investigate the mechanism of drug resistance in HIV.

The position requires a MD degree. Two years laboratory experience utilizing a variety of virological techniques is preferred.

Medical Research Fellows are initially appointed for up to 1 year with renewal for a second year upon the mutual agreement of the employee and Burroughs Wellcome Co.

Burroughs Wellcome Co. offers top benefit programs along with very competitive salaries. If you are interested in working with us, submit your resume, indicating position number in your cover letter, by May 31, 1991 to: Burroughs Wellcome Co., Recruiting and Staffing, Pos. #62582-5, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on other job opportunities with Burroughs Wellcome Co., call our Job Information Line at (919)248-8347.

THOMAS JEFFERSON UNIVERSITY
JEFFERSON CANCER INSTITUTE
Carlo M. Croce, M.D., Director

FACULTY POSITIONS IN IMMUNOLOGY. Several faculty appointments are currently available in the recently expanded Department of Microbiology and Immunology. We invite applications from new and established investigators for full time tenure-track positions at any academic rank. Individuals with strong research interests in any area of immunology will be considered. Investigators with research programs in Molecular Immunology are particularly encouraged to apply. The Department currently has research interests in transplantation immunology, autoimmunity, immunogenetics, cell-cell interactions, neuroimmunology, immunoparasitology, tumor immunology, cytokines, and immunoregulation. The research environment is excellent and conducive for active interactions within the Department and with other members of the Jefferson Cancer Institute. The University itself is located in the vibrant historical downtown area of Philadelphia. Please send curriculum vitae, research plans, and the names and addresses of three references to:

Dr. Robert Kornfeld
Department of Microbiology and Immunology
Jefferson Medical College
1020 Locust Street
Philadelphia, PA 19107-6799

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An Equal Opportunity Employer
SENSE-LEVEL FACULTY POSITION: CELL BIOLOGY, NEUROBIOLOGY

The Department of Biological Sciences and the Program in Neural, Informational, and Behavioral Sciences (NIBS) invite applications for a tenure faculty position (ASSOCIATE/FULL PROFESSOR). Preference will be given to candidates with modern cellular, molecular, or biophysical methods to develop new experimental approaches. This position is expected to begin on or before August 1991. The NIBS and the Program in Neural, Informational, and Behavioral Sciences invite applications from men and women with research interests in the fields of cell biology, molecular biology, biochemistry, or biophysics. Experience in research would include cell signaling, differentiation and control of gene expression, intracellular signaling, and processing of bioanalytical data. Membrane formation and turnover, and the relationship of molecular structure to functional activity are areas of interest. The position is open to both full-time teaching and research. We will begin considering applicants on February 1, 1991. Applications should be submitted to: Dr. Michael Cohen, Chair, Department of Biological Sciences, Southern Illinois University, Carbondale, IL 62901. FACULTY POSITION UNIVERSITY OF CALIFORNIA, IRVINE

The Department of Physiology and Biophysics invites applications for a faculty position at the ASSISTANT PROFESSOR level or higher to begin July 1991. We are seeking candidates with the ability to define a significant research area in macromolecular, cellular, and molecular biology. The position is open to both full-time teaching and research. We will begin considering applications on December 1, 1990. Applications should be submitted to: Dr. Richard W. Doolittle, Chair, Department of Physiology and Biophysics, University of California, Irvine, CA 92717.

FACULTY POSITIONS IN NEUROBIOLOGY THE UNIVERSITY OF TEXAS SOUTHWESTERN MEDICAL CENTER

The University of Texas Southwestern Medical Center at Dallas is establishing a Neuroscience Program, which will be housed in new research buildings now under construction. The Department of Cell Biology and Neurobiology seeks applications for tenure-track positions at the level of ASSOCIATE, FULL PROFESSOR. Applicants must have a relevant PhD or M.D. degree and at least 2 years of appropriate postdoctoral training, and show evidence of a firm commitment to a career in independent research. We are particularly interested in considering individuals who wish to apply the techniques of biochemistry, biophysics, electrophysiology, genetics, or molecular biology to fundamental problems in cellular neurobiology. Responsibilities will also include training of graduate students for the first year of employment. An applicant should submit curriculum vitae, a brief description of proposed research, and either a list of references or three letters of reference to: Neuroscience Search Committee, Department of Cell Biology and Neurobiology, The University of Texas Southwestern Medical Center, 5323 Harry Hines Boulevard, Dallas, TX 75336-8093.

PERSONNEL PLACEMENT ADS IN OUR LINE CLASSIFIEDS WILL BE VISIBLE. CALL SCIENCE 202-326-6555 FOR DETAILS.

TEACHING POSITION, ECOLOGIST. The Department of Biology, Emory University, invites applications for a teaching position in Environmental Science, beginning in September 1991, for a term of up to 3 years. The successful applicant will have a PhD in ecology and a strong commitment to teaching. The position involves teaching one course per year in introductory ecology and environmental science, serving as a counselor for the introductory ecology course, and an independent course program, and teaching more advanced courses, possibly including a graduate course. The position involves teaching one course per year in introductory ecology and environmental science, serving as a counselor for the introductory ecology course, and an independent course program, and teaching more advanced courses, possibly including a graduate course. The position involves teaching one course per year in introductory ecology and environmental science, serving as a counselor for the introductory ecology course, and an independent course program, and teaching more advanced courses, possibly including a graduate course.

PERSONNEL PLACEMENT ADS IN OUR LINE CLASSIFIEDS WILL BE VISIBLE. CALL SCIENCE 202-326-6555 FOR DETAILS.
EXECUTIVE DIRECTOR
Board on Agriculture

The National Research Council (NRC), the principal operating arm of the National Academy of Sciences, the National Academy of Engineering, and the Institute of Medicine, a national nonprofit, non-government institution located in Washington, D.C., invites applicants for the position of Executive Director of the Board on Agriculture (BA). BA activities include providing authoritative analysis of issues and problems arising in agriculture and the management of renewable resources. In pursuing its purpose, the BA is expected to (1) keep abreast of scientific, technological, and practical developments related to agriculture and renewable resources; (2) identify emerging problems and opportunities; (3) respond to requests for analyses and studies from public or private organizations; and (4) be a source of authoritative information to the general public.

The Executive Director in cooperation with the BA chairman, manages the BA as one of ten major program units of the NRC, including all scientific, financial, and administrative operations of the unit, in coordination with cognizant chairmen and subject to the policy directives of the Chairman, Vice Chairman, and Executive Officer of the NRC. The incumbent plans and oversees the ongoing program of technical activities and studies, supervises staff, and is expected to stay abreast of major developments.

Applicants should have the following qualifications: Ph.D. or equivalent preferably in the life or physical sciences and at least 12 years experience related to agricultural research and public policy. Substantial leadership experience is required in program development, policy analysis, policy formulation, staff and personnel management, and project quality assurance. Familiarity with the role of the U.S. Government in supporting and using research in areas of international affairs, contract and grant procedures, and with institutions of higher education and industry is required. Candidates must also have a demonstrated knowledge in staff and financial management, and effective oral and written communications. Please send resume in confidence to: National Research Council, Executive Officer-NAS 213, 2101 Constitution Avenue, NW, Washington, DC 20418. An Equal Opportunity Employer.

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FAX NUMBER 202-682-0816
The Department of Pediatrics, University of Alabama at Birmingham, is seeking qualified candidates as FACULTY MEMBER for the Division of Gastroenterology/Nutrition. Candidates should have a Ph.D. degree with extensive experience in the areas of molecular biology, cell biology, and tissue specific gene expression, especially gene expression. This position involves generation of NIH support for ongoing investigative projects. Salary rank and salary will be commensurate with qualifications.

Interested persons should send curriculum vitae and a list of three references by facsimile to Frank Frankl, Ph.D., 741, The Children’s Hospital Tower, UAB Station, Birmingham, AL 35294.

The Department of Surgery at Stanford University School of Medicine is seeking applicants for several JUNIOR FACULTY tenure-track positions. Openings exist in the areas of general surgery, vascular surgery, transplantation, and pediatric surgery. Applicants should have demonstrated laboratory training and research experience. Stanford University is committed to increasing representation of women and members of minority groups on its faculty and particularly encourages applications from such candidates of hummed ascertainment. Applicants should write to: Chairman, Department of Surgery, MSOB Room X-228, Stanford University School of Medicine, Stanford, CA 94305.

MOLECULAR BIOLOGIST
Growing biotechnology company is seeking a motivated individual for a career opportunity. The successful candidate will possess expertise in recombinant technology with an M.S. or equivalent. Working knowledge of molecular biology is highly desirable. Submit résumé and salary history to: Human Resources Department/MB, Pel-Freez Biologics, P.O. Box 68, Rogers, AR 72757. Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately at the University of California, San Francisco, to study molecular mechanisms underlying the regulation of gene expression by ethanol in neural cells. Send curriculum vitae and names of references to: Dr. Michael Miles, Gallo Cancer Research Center, Room 1011, UCSF General Hospital, San Francisco, CA 94110. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available immediately at the University of California, San Francisco, to study molecular mechanisms underlying the regulation of gene expression by ethanol in neural cells. Send curriculum vitae and names of references to: Dr. Michael Miles, Gallo Cancer Research Center, Room 1011, UCSF General Hospital, San Francisco, CA 94110. The University of California is an Affirmative Action/Equal Opportunity Employer.

HARVARD MEDICAL SCHOOL POSTDOCTORAL POSITION
Join multidisciplinary team investigating new approaches to cancer treatment involving radiolabeled monoclonal antibodies. Applicants should have strong background in immunology, radiochemistry, radiobiology, or molecular biology. Salary $25,000 to $32,000 depending on experience. Send curriculum vitae and names of two references to: R. M. Macklis, Harvard Joint Center for Radiation Therapy, 50 Binney Street, Boston, MA 02115.

POSTDOCTORAL POSITION. A postdoctoral position is available immediately to study the expression and function of genes induced by oxidative stress in E. coli and yeast. Background in genetics and protein purification preferred. Send curriculum vitae and names of three references to: Dr. Spencer Farr, Laboratory of Toxicology, Harvard School of Public Health, 665 Huntington Avenue, Boston, MA 02115.

POSTDOCTORAL POSITION
A postdoctoral position is immediately available to study the role of the polypeptide Chlamydia trachomatis in heartbeat. Relevant experience in recombinant DNA, immunology, and pathology is desired. Send curriculum vitae and names and addresses of three references to: Dr. S. M. Maza, M.D., Ph.D., Professor, Department of Pathology, Medical Sciences I, University of California, Irvine, CA 92717. An Equal Opportunity Employer.

VETERINARY MEDICAL OFFICER
PHYSIOLOGY/PATHOLOGY RESEARCH UNIT
NAVAL POSTGRADUATE SCHOOL
AMES, IOWA

ARS is seeking a scientist to participate as a team member in its research program on colibacillosis. The primary emphasis will be to examine the pathogenesis of colibacillos in swine, to apply molecular biology to develop improved diagnostic procedures, and to develop vaccines for colibacillosis.

The candidate must have clinical experience in veterinary medicine, veterinary pathology, pathogenic microbiology, and research experience in molecular biology. Relevant experience includes animal pathology, immunology, molecular biology, and diagnostic procedures. Salary is commensurate with experience ($31,116 to $68,129). For information on the position, contact: Dr. Dennis Detrick, Physician/Pathologist, Physiology/Pathology Research Unit, NARD, 515-239-8242. For information on application procedures, contact: Angie Cantoni, 301-344-8250. Applicant in response to this advertisement should be marked 1N0041. Applications must be postmarked by 16 May 1991. Mailing address:

USDA, ARS, Personnel Operations Branch
6305 Ivy Lane
Room 325
Greenbelt, MD 20770
An Equal Opportunity Employer.

POSTDOCTORAL POSITIONS. National Research Service Awards available for research on microbial pathogenesis, host resistance, and immunity to infections including anthrax. Project areas include molecular approaches to study host receptors and modulators of action of toxins, capsule, and other plasmid- or chromosome-encoded factors in virulence and immunity; cell biology of macrophage function including phagocytosis and mechanisms of activation of adjuvants and vaccine development; and mechanisms of innate and acquired resistance to B. anthracis. Candidates with a Ph.D. degree in the area of microbiology, molecular biology, cell biology, or immunology are invited to apply. Send curriculum vitae, names of three references to: Dr. Susan Welkos or Dr. Arthur M. Friedlander, Bacteriology Division, U.S. Army Medical Research Institute of Infectious Diseases, Fort Detrick, Frederick, MD 21702. Telephone: (301) 603-7341.

POSTDOCTORAL POSITION. Available to study the autoimmune regulation of ion transport in epithelial cell lines. Current activities concern the role of kalikrein and kinins in this process, and the regulation of these activities through cAMP, nerve growth factor, peptide degradation, and receptor activity. Candidates should have a background in cell biology and a familiarity with receptor techniques. Send curriculum vitae and names of three references to: Dr. Donald H. Miller, Department of Cellular and Molecular Pharmacology and Experimental Therapeutics, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

POSTDOCTORAL POSITION. Work with a team developing computer models for Columbia River fisheries management. Involves theory development, calibration and sensitivity analysis of models. Requires experience in biological and ecological modeling, and mathematics/statistics. Send curriculum vitae and names of three references by 10 May 1991 to: Dr. James P. Anderson, Center for Quantitative Science, University of Washington (UW), Seattle, WA 98195. UW is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Molecular cloning of opioid receptor genes, using expression cloning, PCR, and/or cDNA subtraction. Experience in receptor regulation in cell culture (e.g., neuroblastoma ). Background in recombinant DNA technology, protein isolation, and/or radiochemical techniques (e.g., autoradiography, receptors). Five-year NIDA grant, and 2-year SBIR grant; available from May 1991. Send résumé and names of three references to: Dr. W. Sadée, School of Pharmacy, University of California, San Francisco (UCSF), CA 94143. Telephone: 415-476-1947. UCSF is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available to study kinetic properties of protein refolding using site-directed mutagenesis and other methods in conjunction with biophysical techniques such as fluorescence, CD, NMR, hydrogen-deuterium exchange, and other characterization techniques. Relevant experience important. Send curriculum vitae and names of three references to: Dr. Carl D. Woese, Department of Biology, School of Medicine, 660 South Euclid Avenue, Box 8231, St. Louis, MO 63110.

POSTDOCTORAL POSITIONS. In NIH-funded multidisciplinary training program in parasitology/vector biology. Opportunities include: research on the role of disease vectors in the biology of malaria parasites (Adams), biochemistry/pharmacology of parasitic (Szwast), host-parasite relationships (Bello), insect-biochemistry (Malcolm), immunobiology (Grimstad), ecological genetics of Aedes (Craig), and molecular evolutionary genetics/vector competence for Aedes (Rai). Candidates must be U.S. citizens or permanent residents. Women and minorities are encouraged to apply. Send résumé and three references to: Dr. K. S. Rai, Department of Biological Sciences, University of Notre Dame, Notre Dame, IN 46556. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. Available in neurochemistry to continue ongoing research on the role of cell surface receptors in neurotransmission in the nervous system. Candidate with experience in protein purification, receptor binding assays, cell culture, and immunohistochemistry desirable. Opportunities exist for collaborative and interdisciplinary research in Boston biomedical community. Send curriculum vitae and three references to: Dr. F. Irora Jungwala, Bunnicy Kennedy Harvard School of Public Health, 650 Avenue, Waltham, MA 02254. Telephone: 617-642-0136.

POSTDOCTORAL POSITION IN MOLECULAR VIROLOGY AND PATHOGENESIS. A position is available to study structure, expression and effects of individual viral genes on pathogenesis in the molecular context. Relevant interests will involve not only commonly studied orthopoxviruses (vaccinia) but the less commonly studied swinepox and insect poxviruses. Long-term funding is available. Send curriculum vitae and names of three references to: Dr. Richard W. Moyer, Department of Immunology and Medical Microbiology, Box J-266, HUHIC, University of Florida, Gainesville, FL 32610. The University of Florida is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
The hearing research faculty at The University of Connecticut Health Center offers postdoctoral positions in the neuroanatomy, neurophysiology, neurochemistry, developmental neurobiology, neural modeling, and psychophysiology of the auditory system. Tissue culture, immunocytochemistry, electron microscopy, image analysis, and unit recording, biochemical, molecular, computational, and behavioral approaches are used to address interdisciplinary problems of binaural and monaural function. Collaborative studies between laboratories are encouraged. Please send inquiries to Dr. Kent Moster or any of the following investigators: Dr. Ranjan Batra (biophysics, developmental), Leslie Bernstein (psychoacoustics), Duck Kim (neurophysiology, modeling), Shig Kiiwada (CNS physiology), Kent Moster (neuroanatomy, developmental), Dong-Olive-Ming-Hsun Tung (neurochemistry, plasticity), Richard Saint Marie (neuroanatomy, immunocytochemistry), or Tino Tervo (electrocochleography) Center for Neurophysiological Sciences, The University of Connecticut Health Center, Farmington, CT 06030.

An Affirmative Action/Equal Opportunity Employer, M/W/H.

**Research Scientists**

Children’s Hospital Oakland Research Institute, an expanding, well-funded multidisciplinary biomedical research organization, has several excellent opportunities for talented Ph.D scientists in the following disciplines:

**Biochemists/Molecular Biologists**

The Lipid Biosynthesis Group, directed by Dr. Stuart Smith, has available three positions. Research is focused in two major areas: protein structure/function studies on lipogenic enzymes (see Proc. Natl. Acad. Sci. (1989) 86, 3114 & Biochem. J. (1991) 273, 787) and transcriptional regulation of fatty acid synthase expression (see Biochem. J. (1990) 271, 675). Candidates for a protein chemistry position should have experience in enzyme characterization and mutagenesis, and for a gene regulation position, experience with the appropriate molecular biology techniques including reporter gene transfection methods and DNA/protein binding assays. Appointments will be made either at the Postdoctoral Fellow or Research Assistant level, depending on qualifications and experience of the successful candidates.

**Immunologist**

The Immunology Laboratory, directed by Dr. Alex Lucas, has a Postdoctoral Fellowship available to study human polysaccharide immunity. Work is focused on the molecular characterization of cross-reactive idiotypes and variable regions (see J. Clin. Invest. (1990) 85, 1158), mechanisms of age-related immunocompetence and structure/function studies of polysaccharide-specific antibodies. Experience in immunochemistry, monoclonal antibody production and molecular genetic analysis is desirable.

The Institute, located in the San Francisco Bay Area close to the U.C. Berkeley campus, has a staff of 75 engaged in various basic and clinical research programs. Opportunities exist for outstanding scientists ultimately to develop independent research programs. Salaries and fringe benefits are highly competitive. Children’s Hospital is an equal opportunity employer. Candidates should forward resume and names of references to Human resources Department, Children’s Hospital Medical Center, 747 Fifty-second Street, Oakland, CA 94609. Tel. 415-428-3646. EOE

Children’s Hospital
OAKLAND
Research Institute

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**SCIENTIFIC MANAGER**

**Yerkes Observatory**

**THE UNIVERSITY OF CHICAGO**

The Yerkes Observatory of the Department of Astronomy and Astrophysics at the University of Chicago is seeking a Scientific Manager. Located in Williams Bay, Wisconsin, a two-hour drive from the University of Chicago campus, the Observatory undertakes a variety of technical research programs, primarily in instrument development, construction and testing. The facility serves grant-supported scientific research, internal experimental initiatives and other departmental objectives. A number of large programs will soon be initiated, and adequate management is needed to supervise this high level of effort and a complex array of distinct technical projects.

Reporting to the Director, the Scientific Manager will participate in the planning and execution of the research activities conducted at the Observatory. The Manager will maintain and strengthen the role of the Observatory by providing the Department of Astronomy and Astrophysics with facilities for observational research, particularly the establishment of an infrastructure for the ongoing, aggressive development of new instrumentation. Other responsibilities include interacting with faculty responsible for the principal instrumentation projects, overseeing and coordinating the day to day operations of the Observatory, overseeing the construction of scientific apparatus, including the supervision of the technical and managerial staff, and overseeing the Yerkes Technical Services recharge operation.

This position requires a PhD in a physical or engineering science, along with experience in the management of large scientific enterprises and a broad interest in the research objectives of the Observatory. Qualified applicants should send a resume and the names of at least three references by May 31, 1991 to:

R. G. Kron, Director
Yerkes Observatory
The University of Chicago
Williams Bay, WI 53191-0258
(414) 245-5555 Fax: (414) 245-9805

An Affirmative Action Equal Opportunity Employer

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**Parenteral Drug Delivery**

**Research Scientist**

We are seeking a BS/MS physical scientist (Pharmacy, Chemistry, etc.) to assist a Ph.D. in synthesizing and characterizing colloids and suspensions, as well as carry out radiochemical analyses. Experience in colloid and surface chemistry and familiarity with biology is desirable. The ideal candidate would be comfortable with analytical instrumentation, possess excellent communication skills, and enjoy working in a collaborative environment. GV-30-91.

**Research Investigator/Senior Research Investigator (Novel Delivery Systems)**

The successful candidate will conduct independent and collaborative studies on novel parenteral dosage forms for the enhancement of bioavailability of both diagnostic and therapeutic agents. Other responsibilities are: prepare and characterize colloidal and macromolecular carriers suitably labeled with radioisotopes, fluorescent probes or chemical ligands. A strong analytical background is desirable for monitoring drug loading and good familiarity with the pharmacology of biological systems is essential. A Ph.D. degree in pharmacetics or the chemistry-related sciences required; additional experience at the postdoctoral or industrial level desired. Excellent communication and interpersonal skills required. GV-29-91.

**Oral Drug Delivery**

**Research Investigator/Senior Research Investigator**

The successful candidate will develop novel technology for oral delivery of drugs, including formulation and prodrug approaches, and evaluate the technology using in vitro and in vivo methods. The candidate will collaborate with computational scientists in the development and validation of mathematical models for predicting oral bioavailability of drugs. A Ph.D. in Pharmaceutical Sciences with 0-2 years’ experience beyond postdoctoral training, or the equivalent theoretical/technical depth is required. A strong background in formulation, analytical methods development, in vivo and in vitro models and pharmacokinetics is required. Experience in the development and evaluation of drug delivery systems is highly desirable. GV-31-91.

You will discover that we offer excellent salaries and competitive benefits. Interested candidates please indicate position code and send your resume to: Terri Foreman, Sterling Research Group, 9 Great Valley Parkway, Malvern, PA 19355. An Equal Opportunity Employer M/F/H/V.

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**Sterling Research Group**

Division of Sterling Drug Inc.
A Subsidiary of Eastman Kodak Company
Build A Future With Sterling.
THOMAS JEFFERSON UNIVERSITY
Jefferson Cancer Institute, Carlo M. Croce, M.D., Director
offers Ph.D. training in
Molecular Genetics, Immunology, Microbiology, Molecular Pharmacology and Structural Biology

Students will take a common core curriculum consisting of courses in biochemistry, molecular biology and cell biology, followed by specialized courses in their particular area of concentration, leading to a Ph.D. degree in Genetics, Immunology/Microbiology, or Pharmacology. Facilities include oligonucleotide synthesis and automated DNA sequencing, peptide synthesis and microsequencing, cymometry and transgenic mouse production, two-dimensional nuclear magnetic resonance, X-ray crystal structure analysis, molecular modeling and graphics, utilizing high performance Silicon Graphics and Convex computers.

Current areas of research interest of the faculty include:


Genome structure and transcriptional and developmental regulation (Dr.s. Martyn Darby, Tadaatsu Goto, Kay Huebner, Eric Kmiec, Alexander Mazo, and Laura Steel)

Molecular and structural biology of receptors and signal transducers (Dr.s. Jeffrey Benovic, Catherine Calkins, Thomas Frielle, Robert Harrison, Bradford Jameson, Madhu Kalis, James Keen, Gerald Litwack, Bice Perussia, Wolfgang Vogel, and Irene Weber)

Thomas Jefferson University has an excellent library system and is located in an attractive and historic part of Center City Philadelphia. Recreational facilities including gyms and a full-size pool are available on the campus. Students accepted into the program will be provided with predoctoral support including wash and a stipend of $14,000 per year. For information and qualified students, an M.D./Ph.D. program is available.

For further information regarding September 1991 entrance call Joanne Baltisky at (215) 221-2399 or write:

Thomas Jefferson University
1020 Locust Street
Philadelphia, PA 19107-6799

Research

STAFF SCIENTISTS AND POSTDOCTORAL FELLOWS

San Diego offers an excellent scientific environment for research in the pharmaceutical sciences. Tanabe Research Laboratories, USA (TRL) has established a drug discovery laboratory dedicated to the design of novel therapeutic agents to treat immunological diseases. We are currently seeking experienced professionals for the following research positions:

BIOLISTS
Ph.D. SCIENTIST: We seek an individual interested in understanding the role of cell adhesion molecules in inflammation and autoimmunity. Experience in cloning, engineering and expression of proteins preferred. To qualify, you must hold a Ph.D. in biochemistry, immunology, molecular biology or biochemistry, and have documented experience in conducting independent research.

POSTDOCTORAL FELLOW: To work on leukocyte cell adhesion molecules. Experience with cell culture and protein characterization methods is desired. A Ph.D. in cell biology, immunology, molecular biology or biochemistry is required.

CHEMISTS
Ph.D. ANALYTICAL BIOCHEMIST: The candidate will evaluate stability and metabolism of peptide, peptidomimetic and organic compounds in biological fluids and tissues. Experience in the isolation and reconstituting of cloned proteins, sequencing, amino acid analysis and identification, quantitation, isolation and purification of substances from natural sources is desirable. Experience in protein design, molecular modeling, receptor/protein interactions or protein delivery and transport is also a plus.

We are a highly motivated, close-knit scientific team that will provide you with a stimulating work environment. In return for your expertise, we offer a highly competitive salary and an outstanding benefits package which includes medical/dental/life insurance and a company-matched 401(k) plan. If you are interested in discovering world-class opportunities in beautiful San Diego, interviews are being held through FASEB Placement. Or please submit your resume with research interests and references to:

TANABE RESEARCH
Laboratories, USA, Inc.

11045 Roselle Street
San Diego, CA 92121

Equal Opportunity Employer

SCIENCE, VOL. 252

POSITIONS OPEN

POSTDOCTORAL POSITION. Available to study signal transduction by the ANP receptor and other receptor cyclase phosphates. Ph.D. with experience in protein/receptor chemistry or molecular biology required. Tissue culture and antibody production skills also useful. Send curriculum vitae and names of three references to: Michael Chinkers, Ph.D., Vollum Institute for Advanced Biological Medical Research—Ludwig Health Sciences University (OSHSU), 3181 S.W. Sam Jackson Park Road, Portland, OR 97201–3098. OHSU is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

University of California, San Francisco, CA

Available for 3 years to study the molecular genetics and biochemistry of yeast DNA topoisomerases and their relationship to nuclear structure. Please send curriculum vitae, a brief description of career goals, and the names and addresses of three references to: Dr. Michael Christman, Radiation Oncology Research Laboratory, MCB-200, Box 0806, UCSF, San Francisco, CA 94143–0806. Telephone: 415-476-9069. UCSF is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL POSITION

In plant ecological toxicology at the University of Wisconsin. Research on uptake and distribution of organic contaminants in aquatic plants and the relationship to phytoremediation. Experience in environmental toxicology and GC/MS methodology is desirable. Send curriculum vitae, research interests, and three letters of reference to: Jon Lovett-Doust, Biological Sciences, University of Wisconsin, Madison, Wisconsin, 53705. Applicants must be Canadian citizens.

POSTDOCTORAL Position

The W. M. Keck Center for Integrative Neurosciences at the University of California San Francisco (UCSF) invites application for three positions as KLEBERG FOUNDATION FELLOWS. To promote the integrative goals of the Center, we encourage research that may be supervised by at least two of the faculty, which includes: A. Basbaum, H. Fields, S. Lisberger, R. Nicoll, M. Merzenich, H. Ralston, C. Schreiner, and M. Stryker. Applicants with demonstrated strength and commitment to research in systems neurobiology are encouraged to apply. Positions will be filled by September 1991. Please send curriculum vitae, statement of research interest, and three letters of recommendation to: A. I. Basbaum, Keck Center for Integrative Neurosciences, UCSF, Room 0452, San Francisco, CA 94143. UCSF is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

A postdoctoral position is available starting in the summer of 1991 to study the regulation of gene expression in embryonic cells by retinoic acid [see Nature 342, 702 (1989)]. Ongoing studies include the characterization of transcription factors and the generation of transgenic animals with altered levels of retinoidacid-responsive genes. Experience in molecular biology and/or protein purification techniques is essential. Please send curriculum vitae and names of three references to: Dr. Lorraine J. Gudas, Chairman, Department of Pharmacology, Cornell University Medical College, 1300 York Avenue, New York, NY 10021. Equal Employment Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW

To study viral/host interactions in human and rodent cells, after transformation of transforming agents from human cytomegalovirus or herpes virus and human papilloma virus. Molecular studies will require Southern and Northern blot analysis, sequencing techniques, CAT assays, etc., funded by NCI. Please send curriculum vitae together with a list of three references to either: Dr. Leonard J. Rosenenthal or Dr. Jay Doniger, Department of Microbiology, Georgetown University Medical Center, 3900 Reservoir Road, N.W., Washington, DC 20007. An Affirmative Action/Equal Opportunity Employer.
POSITI0NS OPEN

POSTDOCTORAL RESEARCH POSITIONS
AQUATIC ECOLOGY

The Illinois Natural History Survey offers two postdoctoral fellowships for studies on the factors controlling biological productivity and ecological integrity of the Upper Mississippi River. Emphasized areas of research include investigations of aquatic/riparian plant and landscape ecology. Research facilities include two large river field stations on the Illinois and Mississippi Rivers and our headquarters on the University of Illinois campus. Cooperating scientists include: P. Bayley, R. Herendeen, S. Kohler, L. Osborne, R. Sparks and P. Tazik. Awards are for a minimum of 1 year. Salary is competitive, depending on academic qualifications and relevance of prior experience. Starting date is summer or fall 1991. Send curriculum vitae, a statement of research interests, and three letters of reference to: Ms. Jacqueline Sanders, Personnel Officer, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820. Deadline: 10 May 1991 or until suitable candidates are found.

POSTDOCTORAL POSITIONS. Two positions available for studies of the cochlea: (i) one patch clamp of isolated hair cells and (ii) biochemistry of amino acids. Send curriculum vitae and names of three references to: Dr. Richard P. Bobbin, Department of Otolaryngology, Louisiana State University Medical Center (LSUMC), 2020 Gravier Street, Suite A, New Orleans, LA 70112-2234. Telephone: 504-568-4785. Fax: 504-568-4460. LSUMC is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION. Argonne National Laboratory has an opening for a terrestrial ecologist. The successful candidate will be responsible for assessing the effects of hydroelectric operations on terrestrial components of the upper Colorado River basin, including riparian plant communities, animal populations, and threatened and endangered species. Experience in remote sensing and the application of geographical information systems to ecosystem processes is desirable. Applicants with a Ph.D. in terrestrial ecology or related field should submit their curriculum vitae, the names and addresses of three references, and a statement of research interests by 26 April 1991 to: Susan Walker, Box J-1ID-KLG-SS, Employment and Placement, Argonne National Laboratory, 9700 South Cass Avenue, Argonne, IL 60439. Argonne is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Three available to study: (i) immunobiology of human eosinophils including cytokines produced by and active on eosinophils and receptor signaling mediated by CD4 and other eosinophil proteins [N. Engl. J. Med. 324 (1991)]; (ii) roles of cytoplasmic lipid bodies in formation of eosinophil granule mediators [J. Cell. Biol. 113, 137 (1991)]; (iii) molecular/biochemical parasitology of filarial nematode ecosanoids including their pathways of formation and roles in leucocyte and host cell parasitism [J. Exp. Med. 172, 993 (1990)]. Send curriculum vitae and names of three references to: Dr. Peter F. Weller, Department of Medicine, Beth Israel Hospital, Harvard Medical School, 330 Brookline Avenue, Boston, MA 02215. Equal Opportunity Employer. Women and minorities are strongly encouraged to apply.

POSTDOCTORAL FELLOWSHIP. In neurotransmission-neuropathology at Harvard Medical School, Research on aging, Alzheimer's Disease, limbic system. Send curriculum vitae to: M. Mesulam, M.D., Department of Neurology, Beth Israel Hospital, 330 Brookline Avenue, Boston, MA 02215.

POSTDOCTORAL FELLOW POSITIONS in neuroscience at the Addiction Research Center. Topics of research include: characterization and purification of opioid and neurotransmitter receptors: cocaine receptors; neurotransmitters of reward and addiction; effects of drugs on neurotransmitter systems. Salaries range from $25,000 to approximately $49,000 depending on experience and qualifications. Benefits and relocation expenses may be available. Previous postdoctoral experience desirable but not necessary. Send curriculum vitae to: Dr. Michael J. Kubat, NIDA Addiction Research Center, P.O. Box 5180, Baltimore, MD 21224. The Alcohol, Drug Abuse and Mental Health Administration is an Equal Opportunity Employer. ADAMHA is smoke-free and drug-free.

Research Associate/ Senior Research Associate

Pathology

With four of the first six biotechnology products ever marketed, Genentech has done more to change the industry than anyone. Join us in our ongoing efforts within our Pathology group in the Safety Evaluation department.

You will work closely with pathologists in a lead role to design and conduct independent research supporting experimental and developmental projects with recombinant DNA products. The scope of the position will be to investigate pathogenic mechanisms of toxicological effects of recombinant molecules and methods to evaluate efficacy of these products in animal models. Requirements include a BS/MS in a Biological Science and at least 6 years' experience in the field. Preference will be given to an individual with broad experience in morphologic procedures such as electron microscopy, morphometry, immunohistochemical staining and in situ hybridization.

Our progressive company offers an extensive benefits package which includes fully paid dental/medical/vision coverage for you and your dependents, child care facilities, free health club membership and an employee stock purchase plan. For immediate consideration, please send your resume to Nancy Symonds, Genentech, Inc., Human Resources Dept., N/S/T, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We promote and actively support affirmative action and equal employment opportunity. Women and minorities are encouraged to apply.

Genentech, Inc.

Molecular Biologist/Biochemist

The Department of Immunology Research is seeking both a Senior and Junior Scientist to join a group studying receptor biology with particular emphasis on structure/function relationships and signal transduction. The goal of the group is to utilize cutting edge science to develop novel therapeutic agents for the treatment of inflammatory and autoimmune disorders. 

SENIOR SCIENTIST The position requires a Ph.D. or M.D. with at least 2 years of postdoctoral experience. The successful candidate should have a proven record of creative original research in which molecular biological and biochemical tools have been employed to solve biological problems. An interest and background in signal transduction will be favorably considered.

JUNIOR SCIENTIST Applicants should have a M.S./B.S. with substantial laboratory experience. Preference will be given to candidates with a strong background in molecular biology with emphasis on cloning, mutagenesis and expression, or in biochemistry with emphasis on protein purification and characterization.

These are excellent opportunities for motivated and creative individuals to continue their scientific growth and development. Publication and internal and external collaborations are actively encouraged. Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey, approximately 25 miles from New York City. Our salaries, benefits and growth opportunities are excellent. For consideration, please send your resume with the names of 3 references to: Human Resources Manager (R60-A3), Ad #870, Merck & Co., P.O. Box 2000, Rahway, NJ 07065. AN EQUAL OPPORTUNITY/AFFIRMATIVE ACTION EMPLOYER
DIRECTOR,
DIVISION OF DIABETES, ENDOCRINOLOGY AND METABOLIC DISEASES (DEMD)

Opening Date: April 10, 1991   Closing Date: May 31, 1991
(All applications must be postmarked before closing date.)

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) invites nominations and applications for the position of Director, Division of Diabetes, Endocrinology and Metabolic Diseases. This Institute conducts, fosters, and supports research and research training on the prevention, management, and cure of diabetes and related endocrine and metabolic diseases; kidney, urologic and blood diseases; and digestive diseases. Programs encompass intramural laboratory research and extramural (grants and contracts) activities in fundamental diabetes, digestive and kidney disorders.

The Director, Division of Diabetes, Endocrinology and Metabolic Diseases, has the management responsibilities for matters and policies pertaining to research grant, contract, training and specialized programs in diabetes, endocrinology and metabolic diseases including basic and applied research, training fellowships and institutional training awards, multipurpose centers of research, clinical trials, technological development and application of research findings; collection and dissemination of reliable data and information, budget development; planning and directing a trans-NIH Diabetes Program to provide coordination, continuity and leadership in diabetes at the NIH; and advising and participating with outside voluntary health organizations, and the National Advisory Council and National Diabetes Advisory Board in identifying and assessing the needs and requirements for research and manpower development in categorical diseases.

This is a Civil Service position in the Senior Executive Service (SES), with a salary range from $87,000 to $100,500 per annum, depending on qualifications. Physicians may be eligible for a comparability allowance up to $20,000 per year. (Alternatively, candidates may be eligible for appointment in the Commissioned Corps of the U.S. Public Health Service.) Mandatory professional/technical qualifications are a medical degree or baccalaureate in a health or health related science (or equivalent combination of experience and training) and research program administration and/or clinical experience in one or more areas related to diabetes, endocrinology and metabolic diseases. Further information on these qualifications is available by contacting Ms. Sheila E. Williamson, Personnel Management Specialist, National Institute of Diabetes and Kidney Diseases, Building 31, Room 9A30, Bethesda, Maryland 20892, (301) 496-4231.

Mandatory managerial/executive qualifications include evidence of management of a basic or clinical research program, demonstrating ability to assume leadership responsibilities in developing program goals; representing the program to outside groups; directing program planning, execution, and evaluation; and conducting a fair and equitable employment program; including the attainment of EEO objectives.

Candidates who meet the mandatory qualifications will be further evaluated by the Search Committee on the degree to which they exceed the mandatory managerial/executive qualifications, and on the following desirable qualifications: scientific reputation/peer recognition; training and education; leadership of a basic or clinical research or research administration program; and honors and awards.

Applications (Application for Federal Employment, SF-171), should be sent to:

Mr. Clifford Moss, Executive Secretary
Search Committee for Director
Division of Diabetes, Endocrinology and Metabolic Diseases
Building 31, Room 9A30
National Institute of Diabetes and Kidney Diseases
Bethesda, Maryland 20892
Telephone (301) 496-4231

A current curriculum vitae and bibliography must accompany all applications. Applicants of women and/or minority group members are especially solicited.

The National Institutes of Health is an Equal Opportunity Employer.
**BIOCHEMIST**

**AMERICAN INTERNATIONAL HOSPITAL**

in ZION, ILLINOIS near Lake Michigan

WE NEED a PhD Biochemist with a strong background in cancer drug chemotherapy/toxicology.

AT LEAST 2 to 3 years experience in clinical analysis of serum samples, particularly in the areas of 5-Fu and leucovorin as well as oxidative metabolites and protein metabolism is required.

SUCCESSFUL CANDIDATE will have solid publication record evidenced by senior authorship of papers. Experience with PCs and C-like language helpful.

WE OFFER a competitive compensation program. To be considered, please send resume to:

Human Resources.

American International Hospital,
Shiloh Blvd.,
Zion, IL 60099,
or call 708-746-4257 (e.o.e.)

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*Science*, 1515 Broadway, NY, NY 10036

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POSITONS OPEN
THE MORRISON MEMORIAL POSTDOCTORAL FELLOWSHIP
The Department of Biochemistry, St. Jude Children’s Research Hospital (SJCRH), is enlarging its research efforts in the area of signal transduction. As part of this expansion, the Board of Governors has established a memorial fellowship in honor of Dr. Margaret Morrison, founding chairman of the department. The research programs within the department are well equipped and offer recent Ph.D. or M.D. graduates the opportunity to participate in energetic, multidisciplinary research groups dealing with a range of basic and clinically oriented research. SJCRH offers a competitive stipend, health benefits, and research support.

The beginning date of the fellowship is 1 July 1991. Current research programs within the department include:

- W. Y. Cheung: Regulatory properties and biological function of calmodulin, Ca2+-regulated enzymes and other Ca2+-binding proteins.
- J. Cleveland: Transcriptional regulatory factors which control myeloid cell cycle progression.
- N. Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
- C. Rock: Role of phospholipid-derived second messengers in growth factor action.

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

The Morrison Postdoctoral Fellowship
Department of Biochemistry
St. Jude Children’s Research Hospital
332 North Lauderdale
Memphis, TN 38101

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GLOBAL CHANGE
POSTDOCTORAL FELLOWSHIPS
Global Change Distinguished Postdoctoral Fellowships sponsored by the U.S. Global Change Research Program. This program encompasses the full range of earth system changes including physical, chemical, biological, geological, and social. Fellowships are tenable at approved federal and university laboratories including those of the Department of Energy, NASA, NCAR, USDA, and other agencies. Stipends are $35,000. A doctoral degree received after 1 May 1988 is required as a U.S. citizen or Ph.D. Deadline is 1 May 1991. Contact: Global Change Distinguished Postdoctoral Fellowships, Science/Engineering Division, Oak Ridge Associated Universities, P.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-4805.

POSTDOCTORAL FELLOWSHIP/ASSOCIATESHIP
In chemistry or biology of polypeptide hormones (2 or 3 years, beginning July 1991). Opportunities for Ph.D.’s in interdisciplinaiy group, studying polypeptides of pituitary or other tissues, using HPLC, gas phase microsequencing, peptide synthesis, GC/mass spectrometry, carbohydrate chemistry, RIA/IA/IRMA bioassay, etc., to isolate, identify, synthesize, measure, and characterize function of known/unknown pituitary (or other) peptides. Stipend: $34,000 plus relocation expenses. For U.S. citizens or permanent residents. Send curriculum vitae and three references to: Dr. A. F. Parlow, Harbor-UCLA Medical Center, 1000 West Carson Street, Torrance, CA 90309.

POSTDOCTORAL FELLOWSHIPS IN THE NEUROBIOLOGY OF AGING
The Center for the Neurobiology of Aging at the University of Florida invites applications for NIA training grant–funded postdoctoral fellowships. The center consists of over 40 faculty members in a variety of disciplines concerned with the aging nervous system, including: gene structure and function, receptor transduction mechanisms, novel drug and gene therapy approaches, behavior and dissection of movement- and memory-related behaviors, and neuroimmunology. Selected candidates are interested in the application of new technology, including new techniques for the study of aging nervous system. Interested candidates are invited to apply for the postdoctoral fellowship and to submit a curriculum vitae and names of two referees to: Dr. W. M. Meyer, Ph.D., Director, Center for the Neurobiology of Aging, Box J-267, University of Florida, Gainesville, FL 32610.

NEUROSCIENTISTS with research interests in excitatory amino acids as transmitter systems in the nervous system are invited to apply for the POSTDOCTORAL MEDICAL FELLOW at National Institutes of Health. Interested candidates should send their curriculum vitae, letter of interest, and names of three references to: Dr. W. M. Meyer, Fulbright Professor of Pharmacology, University of California, Irvine, CA 92717.

POSTDOCTORAL FELLOWSHIPS IN IMMUNOLOGY, 1992–1998
The Irvington Institute for Medical Research will award up to ten (10) postdoctoral fellowships in immunology for a period of 3 years to candidates working in a laboratory or hospital in the United States. A laboratory may qualify for only one (1) fellow per year. M.D.’s and/or Ph.D.’s are encouraged to apply. Candidates with not more than three (3) years of laboratory experience will receive priority. The institute will pay a stipend of $22,000, $24,000, and $26,000 for years one, two, and three, with an additional $2,000 each year paid directly to the host institution to help cover the costs of health insurance, travel, and supplies.

The deadline for filing applications is 15 August 1991. Applications must be received by 1 November 1991 whether they have been selected to receive a fellowship to begin 1 July 1992. Applications may be obtained by writing to: The Fellowship Coordinator, The Irvington Institute for Medical Research, 120 East 56 Street, #340, New York, NY 10022. FAX: 212-788-8968.

POSTDOCTORAL FELLOWSHIPS
Postdoctoral fellowship positions for the anatomical and physiological study of labeled grafts into the central nervous system. The anatomical position will involve the analysis and labeling of grafted cells, in both tissue culture and in vivo. The physiological position will involve selective recording from grafted neurons and the study of their integration into these neurons into the host. Both positions are NIH-funded and will start 1 April 1991. Please contact roger madison, Ph.D., or dennis A. turner, M.D., for further information at the address: Division of Neurosurgery, Box 3807, Duke University Medical Center, Durham, NC 27710. Telephone: 919-684-4017. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL FELLOWSHIPS
Postdoctoral fellowships are available for research in the neurobiology of aging or in other areas of the neurosciences. Fellowship awards are subject to the availability of funds. Questions concerning the current availability of fellowship awards should be directed to Dr. R. W. Parlow, National Institute on Aging, National Institutes of Health, Bethesda, MD 20892. FAX: 301-251-4138. Telephone: 301-496-5713. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE OR ASSOCIATE RESEARCH SCIENTIST. Position is available at the Yale Liver Center for an individual with training in molecular biology, preferably with experience in the cloning of membrane transport proteins. Send curriculum vitae and three letters of reference by 30 June 1991 to: Pamela L. Cook, Ph.D., Yale University School of Medicine, Department of Medicine, Section of Digestive Diseases, P.O. Box 3333, New Haven, CT 06520. Yale University is an Equal Opportunity/Affirmative Action Employer.


POSTDOCTORAL FELLOWSHIPS
The Scott Brain Research Institute invites applications for postdoctoral positions in the following areas:

- Molecular and cellular mechanisms of neuronal plasticity. Dr. Charles B. Nelson, Ph.D.
- Neurotransmitter systems and their role in learning and memory. Dr. Charles L. Murdock, Ph.D.
- Neuropharmacology of the opiate receptor. Dr. Albert E. J. Arroyo, Ph.D.
- Neuroendocrinology of the hypothalamus. Dr. Harry L. Seeley, M.D.

Applicants should send curriculum vitae, a statement of research interests, and three letters of reference to: Dr. Charles B. Nelson, Scott Brain Research Institute, Presbyterian-St. Luke’s Medical Center, 3333 West Lake Street, Chicago, IL 60659. Affirmative Action/Equal Opportunity Employer.
BIOMEDICAL SCIENTISTS

CHORI is a well-funded, multidisciplinary biomedical research organization. The Metabolic Nutrition Laboratory, including the Mass Spectrometry Facility, has strong ongoing research programs in collaboration with investigators at U.C. Berkeley and U.C.S.F. The lab has three mass spectrometers capable of GC/MS, thermospray HPLC/MS, FAB and Electrospray MS operation. The following Ph.D positions are open.

Clinical Biochemist

The Metabolic Nutrition Lab requires a manager to oversee its analytical and budgetary operations. This lab carries out sophisticated metabolic and nutritional analyses for CHO, as well as having an important research component. The applicant should ideally have experience in: HPLC, ion-exchange chromatography, atomic absorption spectrometry, liquid scintillation counting, gas chromatography and mass spectrometry. Must have or be eligible for a California clinical chemist or medical technologist license. Experience in metabolic research highly desirable. Development of externally funded research programs encouraged.

Biochemist/Mass Spectrometrist


Forward resume and references to Dr. Cedric Shackleton, c/o H.R. Dept., Children’s Hospital Oakland, 747 52nd St., Oakland, CA 94609, Tel: (415) 428-3646. EOE

Children’s Hospital
OAKLAND
Research Institute

Molecular Neurobiologist
Cell and Developmental Biologist
Assistant Professor
Meharry Medical College

Applications are invited for two tenure track positions at the Assistant Professor level beginning September, 1991 in the Division of Biomedical Sciences here at Meharry Medical College. Appointments are for candidates with an interest in molecular neurobiology and cell and developmental biology. Signal transduction is of special interest. The individuals will have teaching responsibilities for medical and graduate students and will be expected to maintain a funded research program. Active interdepartmental neuroscience, cell and molecular biology, and tropical diseases research programs exist and the individual will be expected to develop appropriate collaborations. Applicants should have a Ph.D. or M.D. and relevant postdoctoral experience and should provide curriculum vitae, summary of research plans, reprints of three representative publications, and the names of three references to:

Dr. George C. Hill
Professor and Director
Meharry Medical College
Division of Biomedical Sciences
1005 D. B. Todd, Jr., Blvd.
Nashville, TN 37208
(615) 327-6193

Applications will be accepted until position is filled. Initial review will begin May 1, 1991. Meharry Medical College is an Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

POSTDOCTORAL ASSOCIATES. Two postdoctoral fellowships are available in the field of high throughput DNA sequencing and restriction fragment mapping using high-performance capillary gel electrophoresis and laser-based detection. Experience in DNA sequencing is essential. Research programs are heavily interdisciplinary, oriented under the Human Genome Effort. Positions are available immediately or a start date can be within 4 months. Write to: Professor B. L. Karger, Barnett Institute, Northeastern University, 360 Huntington Avenue, Boston, MA 02115.

Northeastern is an Equal Opportunity/Affirmative Action/TITLE IX University.

POSTDOCTORAL RESEARCH ASSOCIATE

Cancer Research Laboratory, The Mercy Hospital of Pittsburgh, Pittsburgh, Pennsylvania, has two positions for highly qualified Ph.D.'s with experience in molecular biology and/or biochemical techniques to work in the area of: (i) Alkylation and multi-drug resistance; (ii) characterization of potentially new lung cancer genes. Salary: $20,000 to $20,000. Interested applicants should send curriculum vitae, copies of publications, and references to: Vicram Gupta, M.D., Medical Director, Mercy Regional Oncology Center, 1400 Locust Street, Pittsburgh, PA 15219.

MOLECULAR BIOLOGIST

Unique and challenging opportunity for a POST-DOCTORAL SCIENTIST to investigate vascular wall molecular biology and its role in atherogenesis at the Ohio State University (OSU) Vascular Biology Laboratory and the OSU Biotechnology Center. Experience in vascular biology is highly desirable. Salary will be commensurate with experience. Please send detailed curriculum vitae and three letters of recommendation to: J. Gordon Wright, M.D., Director Vascular Biology Laboratory The Ohio State University Room 3234, Doan Hall 410 West 10th Avenue Columbus, OH 43210

An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE POSITIONS IN BRAIN METAL PHYSIOLOGY/TOXICOLOGY

Available immediately at the National Institute on Aging, National Institute on Alcohol, Public Health Service, Bethesda, Maryland, to examine (i) metal localization in postmortem human brain tissue and (ii) metal transport, storage and metabolic functions. The position requires knowledge of techniques in the central and peripheral nervous systems of small animals in aging and disease. Methods include in vivo autoradiography, metal histochemistry, immunohistochemistry, and radiotracer counting. Experience in tissue sectioning and staining helpful. Positions available for up to 3 years with salary commensurate with qualifications. Send applications with curriculum vitae and names of three references to: Dr. Quentin R. Smith, Laboratory of Neurosciences, National Institute on Aging, National Institutes of Health, Building 10, Room 6C-103, 9000 Rockville Pike, Bethesda, MD 20892. Telephone: 301-496-8970. NIH is an Equal Opportunity Employer.

MOLECULAR BIOLOGIST

The Division of Respiratory Disease Studies, National Institute for Occupational Safety and Health (NIOSH), Morgantown, West Virginia, is seeking a qualified molecular biologist with postdoctoral experience, trained in the most recent techniques in the field. Successful candidates will have an opportunity to work with internationally known scientists in the Laboratory Investigations Branch of the National Institute of Environmental Health Sciences. The successful candidate will have the opportunity to develop his/her career related to occupational lung disease or development of assay systems or biomarkers for the detection of potential health hazards of workers whose chemicals is preferred. Comparative compensation package and housing are also offered. For immediate consideration, please send curriculum vitae and three professional references to: Ronda Bramham Smith, NIOSH, 414 Chestnut Ridge Road, Morgantown, WV 26505.

POSITIONS OPEN

STAFF SCIENTIST AND ASSISTANT RESEARCHER AVAILABLE.

The La Jolla Cancer Research Foundation is now entering a new phase of expansion and seeks nominations for and application from qualified researchers. The following research areas are emphasized:

- Oncogenes and tumor suppressor genes
- Animal lenticis, including selective
- Ultrastructural biology

Successful candidates are expected to establish a strong independent research in the area of cell biology, early phase experimentation, and further interaction with other faculty members. Applicants with solid NIH funding are encouraged to apply, while exceptional applicants at the entry level will also be considered. Rank and salary will depend on qualifications. Interested candidates should submit their curriculum vitae, a summary of current research interests and future plans, and three letters of evaluation to:

The Search Committee
La Jolla Cancer Research Foundation
10900 North Torrey Pines Road
La Jolla, CA 92037

La Jolla Cancer Research Foundation is an Equal Opportunity Employer.

ASSISTANT RESEARCHER

HAWAIIAN EVOLUTIONARY BIOLOGY

The Hawaiian Evolutionary Biology Program (HEBP) is seeking to fill an assistant researcher position to conduct research in the area of cell biology, evolution, and conservation biology with strong emphasis on the endemic Hawaiian biota. This is a tenure-track appointment to begin approximately 21991. Candidates must have Ph.D. in an appropriate discipline with postdoctoral experience in evolutionary biology. Candidates will also be expected to participate in the development and teaching courses in the ecology, evolution, and conservation biology graduate program. Submit curriculum vitae and names and addresses of three references to: Dr. Kenneth Y. Kaneshiro, Director, HEBP, University of Hawaii, 3050 Maile Way, Honolulu, HI 96822. Closing date: 31 May 1991.

An Equal Opportunity Employer.

INSTRUMENT SCIENTIST

The Jet Propulsion Laboratory is currently seeking an instrument scientist to work on the Active Cavity Radiometer Irradiance Monitor on the Earth Observing System for the Solar Irradiance Monitoring Group. Requires an M.S. or Ph.D. in physics, solar physics, astrophysics, earth sciences, or applied sciences, along with experience with large complex instruments and computer (UNIX, FORTRAN, TCP/IP) background. Experience with flight experiments desirable. To apply, please submit resume to: Professional Staffing, Department T-17 Jet Propulsion Laboratory California Institute of Technology 4800 Oak Grove Drive Pasadena, CA 91109 Equal Opportunity Employer.

ASSISTANT RESEARCH SCIENTIST DEPARTMENT OF PHARMACOLOGY

UNIVERSITY OF CALIFORNIA, IRVINE

RESEARCH POSITION available immediately for a scientist to conduct research in the field of cellular/ molecular mechanisms of ion transport. Study operant conditioning of individual neurons in vitro brain slice using electrophysiological and pharmacological methods. Responsibilities: advanced degree in pharmacology or related discipline, experience recording electrophysiological signals from brain slice. Computer programming experience desirable. Salary: $41,600 to $52,500. Send curriculum vitae and names of three references of the following: by 1 May 1991 to: Dr. James D. Bellusi, Department of Pharmacology, College of Medicine, University of California, Irvine, CA 92717.

An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ANALYTICAL ULTRASOUND-DETECTION

Experienced professional to participate in development of instrument, data analysis software, and applications methodologies. Must be able to communicate well with engineering and marketing professionals. Excellent presentation skills required. Knowledge of new results in quantitation and a commitment to continually improve products. Ph.D. in physical chemistry or related field with 7-10 years experience in analytical ultrasound. Send resume to: Beekman Instruments, Professional Staffing, 1050 Page Mill Road, Palo Alto, CA 94304. Equal Opportunity Employer.

CELL ANALYSIS SPECIALIST

The Cell Analysis Facility, Department of Immunology, University of Washington, has an immediate opening for a technical specialist in flow cytometry/morphology analysis. Responsibilities include the operation and maintenance of a dual laser FACSStar Plus, FACSscan, and fluorescence microscopy. The successful candidate will also participate in the design and implementation of cell analysis. Experience in cell analysis is desirable. Send resume and references by 26 April 1991 to: Dr. Steven Gonder, Cellular Analysis Facility, Department of Immunology, 1 264 Health Sciences Building SL-05, University of Washington, Seattle, WA 98195. An official application will be forwarded to candidates selected. The University of Washington is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE RESEARCH SCIENTIST

Nontenure-track position available in the Department of Pharmacology and Cellular Biology. Candidates must possess M.D. or Ph.D. degree and at least 3 years of postdoctoral experience in endothelial cell biology, coagulation pathways, or related cell products. Send application with full curriculum vitae to: Dr. David M. Stern, Department of Physiology and Cellular Biology, College of Medicine, 630 West 16th Street, New York, NY 10032. Columbia University is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

To conduct both independent and collaborative research with physicians in a medical institution. Main duties involve laboratory investigations of inflammatory eye disease with use of immunology, have M.D. or M.S. or equivalent with concentration in biochemistry. Three years of research experience in ocular immunology. Forty hours per week, 8 a.m. to 5 p.m.; salary: $31,000 personal, $40,000 total. Send resume and name of references to: Dr. David O. Michie, Missouri Job Service, 505 Washington, St. Louis, MO 63101, JO#453730. Must have legal authority to work permanently in the United States.

The Intermountain Research Station, USDA Forest Service, is recruiting a RESEARCH BIOLOGIST to be located at the Forestry Sciences Laboratory, University of Montana, in Missoula, Montana. Job responsibilities include planning and conducting independent research designed to improve ecosystem management in wilderness areas. Starting salary: $31,116 to $48,481, depending on qualifications and experience. Qualified individuals should send resume and statement of research interests to: Dr. David O. Michie, Missouri Job Service, 505 Washington, St. Louis, MO 63101, JO#453730. Must have legal authority to work permanently in the United States.

RESEARCH SCIENTIST POSITION.

Available immediately for studying metabolism of chemical carcinogens and DNA adduct formation in mammalian and fish systems. Ph.D. in biochemistry, biogenic chemistry, biochemistry, biochemical toxicology, pharmacology, or related field required. Experience in isolation and structural characterization of chemicals is desired. Position provides an opportunity for developing a program of candidate's interest. Please send resume and names of three references to: Dr. H. Sikka, Director, Division of Environmental Studies, Center for Environmental Research, State University of New York College at Buffalo, 1300 Elmwood Avenue, Amherst, New York 14223. Telephone: 716-878-5422, Ext. 716-878-5400.

SCIENCE, VOL. 252
Senior Scientists and Support Staff

The Sandoz Research Institute is substantially expanding the size and scope of its research programs and is seeking outstanding scientists to contribute to the research effort on new therapeutic approaches in immunology and inflammation. These positions offer unique opportunities for innovative, self-motivated, and independent scientists to conceive and develop potential products. The successful candidates will work closely within an interdisciplinary team of molecular biologists, immunologists, biochemists, and cell biologists.

The requirements of the positions include the following:

- Ph.D. or equivalent and preferably post-doctoral experience in immunology or a related discipline as well as a record of significant publications in major scientific journals.
- BSc and MSc or equivalent degrees with experience in the above research areas.

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 consideration, please respond to position #IMM2 and forward your resume, with salary requirements, in confidence, to:

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

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Director of Protein Chemistry Research Associates

Matrix Pharmaceutical, Inc. is a drug delivery company focused on enhancing the effectiveness of drugs to treat cancer and skin diseases. As a result of our expanding research programs we have immediate openings for a Director of Protein Chemistry and Research Associates.

Responsibilities include the development of analytical and synthetic techniques to investigate drug/protein interactions and protein modification relating to the development of novel drug dosage forms. For candidates for the Director position, Ph.D. in Biochemistry or Chemistry, 4+ years industry experience in structural protein purification, characterization and modification. For Research Associate positions, B.S. or M.S. with 3+ years experience.

Please forward your resume including salary history to: Matrix Pharmaceutical, Inc., Attn: Human Resources PCD, 1430 O’Brien Drive, Suite H, Menlo Park, CA 94025. We are an equal opportunity employer.

Matrix Pharmaceutical, Inc.
RESEARCH ASSISTANTS
GENETIC ENGINEERING
Applications are invited from innovative and motivated individuals for career technical positions in molecular biology and cell biology at Agacetus, Inc. Candidates should hold B.S. or M.S. degrees in relevant scientific disciplines, and have demonstrated laboratory experience in mammalian cell culture, and cytogenetic, molecular, or biochemical techniques. The successful candidates will join an enthusiastic team in developing new and useful applications for genetic engineering in mammalian cells.

RESEARCH ASSOCIATE
A postdoctoral position is immediately available to study DNA methylation and restriction enzymes, and for developing new genome mapping strategies. Research in the laboratory is conducted under the direction of Dr. James Solomon, Chair, Department of Health and by industrial funds. Good working knowledge of molecular biology including recombinant DNA and molecular biology and techniques. A Ph.D. in molecular biology or related discipline is required. A minimum annual salary is $22,000 and negotiable. To two years of support is anticipated. Send curriculum vitae and three letters of recommendation to: Dr. Ashok B. Bhagwat, 437 Chemistry, Kansas University, Lawrence, Kansas 66045.

RESEARCH ASSOCIATE
Investigate molecular mechanisms of aging and effect of ambient UV light on human lens on tissue, macromolecular and molecular levels through photochemical studies using protein purification, digestion of peptides, SDS-PAGE, HPLC, TLC, UV, and fluorescence spectra meters; manipulate, isolate and examine human tissue and their constituent components. B.S. in chemistry plus 2 years in lab or 2 years as chemical technologist. Must have performed photochemical studies on tissue, macromolecular and molecular levels using SDS-PAGE, HPLC, TLC, UV and fluorescence spectra meters. Must know techniques of protein purification and digestion of peptides. For more information, contact: Dr. James Dilllos, Ph.D., Director, Photograph Laboratory, Department of Ophthalmology, Columbus University, telephone: 212-305-9088.

RESEARCH ASSOCIATE
The Department of Biochemistry and Cell Biology announces the availability of a research associate position in the area of metalloprotein structure and function. Previous experience in one of the following areas is desirable: purification and/or characterization of membrane-bound enzymes, electron transport proteins, biophysical technique (especially epr). Interested individuals should send a complete resume, together with the names of three people who are willing to provide references for the applicant.

All information should be sent immediately to: G. Palmer, Department of Biochemistry and Cell Biology, Rice University, P.O. Box 1892, Houston, TX 77251. Rice University is an Equal Opportunity Employer.

SENIOR RESEARCH SCIENTIST (ten openings). R&D in flight control system design, estimation and guidance algorithm development, computer-aided control system design; system simulation, automatic control system and control research, model development and validation, system integration, and prototype implementation. Ph.D. in studies of low-dimensional dynamical systems, applied math or electrical engineering required, plus 1 year of experience or master's plus 4 years of experience. Experience must include all aspects of job offered; $48000 per month. Location: Job Code: #0000012. For more information, contact: Leon. 0000012, P.O. Box 9560, Sacramento, CA 95823-0560 no later than 27 April 1991.

COURSES AND TRAINING
CARDIOVASCULAR PATHOPHYSIOLOGY FOR ENGINEERS AND PHYSICAL SCIENTISTS

ANNOUNCEMENTS
ALFRED P. SLOAN FOUNDATION
POSTDOCTORAL FELLOWSHIPS IN MOLECULAR STUDIES OF EVOLUTION. Up to ten positions. Total compensation: $25,000 plus $10,000 research funds per year. Tenable for 1 to 3 years at universities or nonprofit research institutions in the United States or Canada. Applicant should be prospective or recent Ph.D. in molecular biology, evolutionary biology, or related discipline. Deadline: 6 September 1991. For details, contact: Dr. Michael S. Teitelbaum, Alfred P. Sloan Foundation, 630 Fifth Avenue, New York, NY 10111. Telephone: 212-649-1649.

ORPHAN DRUG RESEARCH GRANTS. Grants are available from the National Organization for Rare Disorders (NORD) for clinical research on the care and treatment of patients with rare diseases. Grant awards are up to $20,000 per year for either 1 or 2 years. Two-page letter of intent due by 30 June 1991; final proposal by 31 October 1991. For guidelines Admin-istrator, National Organization for Rare Disorders, P.O. Box 8923, New Fairfield, CT 06812-1783. Telephone: 203-746-6518.

AMERICAN EPILEPSY SOCIETY AWARDS PROGRAM
The American Epilepsy Society announces the 1991 Awards Program designed to encourage and reward clinical and basic science investigators whose research contributes importantly to understanding and conquering childhood onset epilepsy. CATEGORY 1 AWARDS: Two annual awards of $100,000 each will be made to senior individuals who have a distinguished history of research achievements and professional excellence related to pediatric aspects of epilepsy. One award will go to a clinical investigator and the other to a basic scientist. CATEGORY 2 AWARDS: Three annual awards of $50,000 each will be made to individuals whose research holds promise of leading to important advances in the understanding and treatment of childhood onset seizures and epilepsy. At least one award in this category will go to a clinical investigator. Candidates for the American Epilepsy Society Awards are nominated by their peers. The American Epilepsy Society has the sole responsibility for selection of recipients. Nominations forms are available from the American Epilepsy Society. Deadline for completed nominations is 1 July 1991. Awards will be announced at the annual meeting of the American Epilepsy Society in Philadelphia, 6 to 11 December 1991. Contact: The American Epilepsy Society Awards Program, AES Executive Office, 638 Prospect Avenue, New Rochelle, NY 10505-4298. Telephone: 203-232-4825.

The American Epilepsy Society Awards Program has been made possible by funds generously provided by the Milken Family Medical Foundation.
RESEARCH INVESTIGATOR

Computational Chemistry

The individual for this position will be responsible for establishing and implementing computational chemistry/molecular modeling research primarily on small molecules with some applications to macromolecules. The applicant should have a Ph. D. and expertise in quantum mechanics, molecular mechanics, and statistical mechanics with 3-5 years’ relevant experience in these areas. A strong background in organic chemistry and the ability to work as part of a team is highly desirable.

The Computational Chemistry Group functions as part of a multidisciplinary team with close interactions with medicinal chemists and structural chemists. The computational chemistry effort is well supported by a VAX cluster, a large Silicon Graphics network, and direct access to a CRAY YMP-432.

Please refer to Job #9141AMRI-SC on all resumes.

POSTDOCTORAL POSITIONS

As part of continued commitment to excellence in scientific research, we have an established and successful program for Postdoctoral Fellows. We maintain a stimulating environment with an active seminar program and have strong interactions with neighboring universities. Publication of research results is strongly encouraged. Openings for suitably qualified candidates exist in the following areas:

Computational Chemistry

The applicant should be familiar with quantum mechanics, molecular mechanics, and statistical mechanics. Opportunities exist for research on the development of new methodologies in the areas of free energy perturbation, and 3D structure searching. Application of these methods to modified oligonucleotides in triplex and antisense systems will be the main focus of the studies.

Please refer to Job #9141T205-SC on all resumes.

Mass Spectrometry

Experience in biopolymer mass spectrometry or protein biochemistry desirable to study electrospray ionization mass spectrometry of proteins and glycoproteins. Instrumentation includes a Sciex API-III triple quadrupole and JEOL SX-102, double focusing sector mass spectrometer.

Please refer to Job #9141T703-SC on all resumes.

SENIOR SCIENTIST

Bioanalytical Separations

Applications are invited for the position of Senior Scientist in Bioanalytical Separations. Candidates should have a Ph. D. in Analytical Chemistry or Biochemistry with 3 to 5 years’ experience in HPLC and capillary electrophoresis of biomolecules. Duties will include research in the separation of proteins, glycoproteins, and polynucleotides on the micro-scale and coordination with the mass spectrometry group to interface the separation and mass spectrometric instruments.

Please refer to Job #9141AMSS-SC on all resumes.

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At least not in deciding which enzymes to buy. As these gels indicate, biological enzyme quality has become an industry standard. Most product prices and selections are equal as well. That's why IBI and VWR are working hard to provide you with a product that does make a difference...Outstanding Service.

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We're taking service very seriously. After all, when product quality, price and selection are the same, getting the best service makes all the difference.

For additional information, please contact IBI Technical Resources at (800) 243-2555 or your local VWR Sales Office. Outside of the U.S., contact the IBI International Sales Department at (203) 786-5600 for the name of the distributor nearest you.

*Lane 1: 5'KpnI cut Adenovirus Type 2 DNA, 5 Units/µg DNA; Lane 2: ligated product; Lane 3: ligated product recut with 5 U KpnI ligase; Lane 4: overdigest, 30 Units/µg DNA.

If you would like to review the specifics of these assays or know which companies were involved, contact one of the numbers listed.

Please visit us at ASM Booth #s 657 & 658.