Unlike sealed systems that use a stopper, Omni's safety-sealed homogenizers meet all National Institutes of Health and Centers for Disease Control specifications for aerosol containment. A choice of four models ranges from 0.5-ml to 2-liter sizes. Unique cutting blades and rotor stator generator probes are interchangeable within the same chambers for versatility. Very fine particle size yields are possible from samples that would otherwise require several homogenizer products for comparable results. Omni International. Circle 143.

Density Gradient Fractionator
This instrument with its patented top-down piston displacement fractionation system offers resolving power comparable to high-performance liquid chromatography. Its air rinse system removes contamination between fractions from the point of gradient capture. An automated motor drive gives reproducibility and instant recall of fractionation protocols. The instrument features a tilted-tube rotation technique that can reduce the time required for gradient making from several hours to a few minutes. Biocomp. Circle 144.

RNA Synthesis Support
A new set of 1-μmol RNA synthesis columns features a patented polystyrene support matrix that increases yield by preventing extraneous chain growth during nucleic acid synthesis. The matrix's inherent hydrophobicity enhances coupling efficiency by eliminating hydrolysis of activated phosphoramidite. As a result, the crude synthesis product contains more full-length oligoribonucleotide, complementing the larger scale to deliver useful quantities of RNA for ribosome studies, in vitro selection experiments, and structural analysis. Perkin-Elmer. Circle 145.

Literature
Chiral HPLC Columns for Cardiovascular Drugs is an application note on these devices for high-performance liquid chromatography (HPLC). Phenomenex. Circle 146.

The SHARP Signal System is a technical brochure that describes a sensitive and specific enzyme-linked immunosorbent assay system for detection of polymerase chain reaction products. Digene Diagnostics. Circle 147.

Superior Membrane Processing in a Precision Controlled Environment contains information on a complete line of hybridization incubators, tubes, and accessories. Robbins Scientific. Circle 148.

The Last Word in Freeze Dryers from the First Name in the Business details the capabilities of a state-of-the-art product line. Stokes Vacuum. Circle 149.

Kamiya Biomedical Company: Research Biochemicals, Immunological Reagents is a catalog that includes enzyme inhibitors and monoclonal antibodies for research into apoptosis, multi-drug resistance, cancer, signal transduction, and free radicals. Kamiya Biomedical. Circle 150.

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MAYO CLINIC SCOTTSDALE

Nine-month, tenure-track, eleven-month term of employment. The candidate is expected to conduct research on the development of systems which integrate engineering and biology at a biochemical, cellular, or organismal level with a focus on long-term problems, to develop research programs in biological, applied, or theoretical areas, and to develop a graduate-level course in their research area. Applicants must have a Ph.D. in engineering, or a Ph.D. in a scientific field with a B.S. in engineering. They must have the ability to supervise undergraduate and graduate students. Applicants must have a Ph.D. in engineering, or a Ph.D. in a scientific field with a B.S. in engineering. They must have the ability to supervise undergraduate and graduate students. To apply for this position, candidates should send a letter of application, curriculum vitae, and three letters of reference to: Dr. Mark A. Johnson, Director, Mayo Scientific Research Center, Mayo Clinic Scottsdale, 13400 East Shea Boulevard, Scottsdale, AZ 85259. Mayo Clinic Scottsdale is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR FOR NEWLY FORMED DEPARTMENT OF MOLECULAR BIOLOGY

The Masonic Medical Research Laboratory, a not-for-profit non-profit independent research institute, seeks to establish a new department of molecular biology located in the foothills of the Adirondack Mountains in upstate New York. The laboratory invites applications for an individual to head its newly formed Department of Molecular Biology. Position is at a rank of the equivalent of ASSOCIATE or FULL PROFESSOR. Ph.D. and/or M.D. candidates with experience and interest in molecular biology aspects of the molecular function of the heart will be given preference. Appointees will have access to laboratory facilities and significant opportunities for collaborative research with other investigators.

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Requirements include M.D. and/or Ph.D. degree and at least three years of independent research experience. The candidate should have a record of significant research accomplishments and should be able to achieve and maintain recognition within the field of molecular genetics. Applicants are expected to have a record of significant research accomplishments and should be able to achieve and maintain recognition within the field of molecular genetics. The candidate will be expected to develop a research program of high quality and potential and to interact with the broader academic community.

SCIENCE PERSONNEL PLACEMENT

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POSITIONS OPEN

RESEARCH FACULTY
MAYO CLINIC SCOTTSDALE

A faculty position is available starting in 1996 at the ASSOCIATE PROFESSOR or higher level. Research programs will address the molecular basis of human disease. The new 75,000 square foot S.C. Johnson Medical Research Building houses laboratory core facilities, including an 8,000 square foot animal facility devoted primarily to transgenic and gene inactivation operations. Mayo Clinic Scottsdale is fully integrated with the University of Minnesota Medical School and Mayo Clinic campuses in Rochester, Minnesota and Jacksonville, Florida. Applications are available in the appropriate department of the Mayo Graduate School of Medicine. Applications, including a signed commitment to active research programs in extracellular matrix, mucin molecular biology, myeloid cell differentiation, coagulation-mediated inflammation, and breast and prostate cancer, are encouraged. The position is housed at the Mayo-Johnson Graduate School for Biological Sciences. Candidates interested in the formation of a new laboratory are encouraged to contact the chairperson of the department in which they are interested. The position is located in the Mayo Clinic Department of Oncology.

PROFESSOR AND CHAIRPERSON/HEAD
Department of Microbiology

Oregon State University invites applications/nominations of accomplished scientists to provide leadership to the Department of Microbiology, in both education and research. This is a 10 month, 12 month, tenure track position, at the rank of Associate Professor or Professor, with a 12 month, non-renewable appointment. The position begins at September 1, 1995. Salary is negotiable, commensurate with qualifications and experience. Appointment must have a doctoral degree in microbiology or a related field and several years of experience at a senior level. Experience in administering and providing research funds is essential, and other administrative experiences is desirable. For full consideration, applications must be received by December 15, 1994. Please send curriculum vitae, statement of research interest and names of three references to: Professor, Search Committee, Department of Microbiology, Oregon State University, Corvallis, OR 97331-7311. Phone: 503-737-4511; FAX: 503-737-0481; Email: mathews@acc. orst.edu. Oregon State University is an Affirmative Action/ Equal Employment Opportunity Employer and has a policy of being responsive to dual-career needs.

FACULTY-LEVEL POSITION
LABORATORY DIRECTOR
PARASITIC DISEASES
NATIONAL INSTITUTES OF HEALTH

A position is available for a leader of an independent group in Molecular and Medical Virology. The position is for TENURE/TEMPORARY-TRACK in the Laboratory of Parasitic Diseases, National Institute of Allergy and Infectious Diseases, National Institutes of Health. We are looking for a person who can contribute to and profit from the many strengths of the intramural program. U.S. Citizenship is required. The application deadline is Friday, March 31, 1995. Applications should be sent to: ecs@nih.gov. The position is available for June 1995.

ASSISTANT PROFESSOR: Theoretical Visual Neuroscience Center for Neural Science and Courant Institute of Mathematical Sciences. As part of its Sloan Theoretical Neuroscience Program, the Center for Neural Science at New York University, together with the Courant Institute of Mathematical Sciences, is planning to hire an Assistant Professor (tenure-track) in the field of Theoretical Visual Neuroscience. Applicants should have a background in mathematics, computer science, and/or psychology. Computer science with a proven record of doing high-quality work in neuroscience or cognitive science is encouraged. The position is open for the academic year 1995-1996. Three letters of recommendation should be sent to: Sloan Search Committee, Center for Neural Science, New York University, 4 Washington Place, New York, NY 10003. NYU encourages applications from women and members of minority groups.

POSITIONS OPEN

SCIENCE
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POSITIONS OPEN

ASSISTANT PROFESSOR
INSTRUCTOR OF INTERNAL MEDICINE

The Department of Internal Medicine of the University of Texas Health Science Center at Dallas is seeking candidates for the position of INSTRUCTOR. Individual must have a Ph.D. and/or M.D. and be accomplished in modern molecular biology (DNA sequencing, PCR, cell culture, Southern, Northern, Western blotting, subtractive hybridization, immunoprecipitation, transfection with expression vectors, mutagenesis of phosphoesters and peptides, and SSCP). Must also be able to conduct small animal experiments. ASSISTANT PROFESSOR position requires an M.D. degree, be Board-certified in Internal Medicine and have experience in carrying out small animal experiments in vivo and with perfused organs. Submit curriculum vitae and three letters of recommendation to: Dr. Roger Mountain, Center for Internal Medicine, University of Texas Southwestern Medical Center at Dallas, 5323 Harry Hines Boulevard, Dallas, TX 75235-8854. The University of Texas is an Equal Employment Opportunity/Affirmative Action Employer.

RESEARCH ASSISTANT/ASSOCIATE PROFESSOR

Ph.D. / Molecular Biology Diagnostics

The University of New Mexico (UNM) School of Medicine is seeking a Research Assistant/Associate Professor in the Pathology and Microbiology Department. The UNM Cancer Center is seeking an individual to be ASSOCIATE DIRECTOR of the Molecular Oncology/Molecular Genetics Diagnostic Laboratory. Minimum requirements include completion of Ph.D./M.D. and postdoctoral training, and experience in molecular diagnostics (preferably human molecular diagnostics) is required. American Board of Medical Genetics certification is desirable, but not required. The successful candidate will be responsible for the day-to-day operation of the diagnostic laboratory (designing and developing diagnostic assays; supervising and training technicians and fellows), will assist in the direction of a national adult leukemia research program, and will have research opportunities in cancer genetics. Rank and salary for this non-tenure-track faculty position will be commensurate with experience. For best consideration, please apply by July 14, 1995. Curriculum vitae, a covering letter, a detailed description, and names of three references should be sent to: Cheryl L. Willman, M.D., UNM Cancer Center, 900 Camino de Salud, N.E., Albuquerque, NM 87131. FAX: 505-277-6139. UNM is an Equal Opportunity/Affirmative Action Employer.

ANATOMY AND MICROBIOLOGY

TEACHING POSITION

Available at the University of Wisconsin-Madison, the Caribbean School of Medicine, Montserrat, West Indies. Applicants must have a Ph.D. or M.D. degree and be devoted to teaching medical students and to being effective teachers in English. Send resume to: MEIO-S, 901 Ponce de Leon Boulevard, No. 201, Coral Gables, FL 33134. Telephone: 305-446-0600.

POSITIONS OPEN

UNIVERSITY OF CINCINNATI
COLLEGE OF MEDICINE
Department of Molecular and Cellular Physiology

Applications are invited for a full-time, tenure-track position at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level. Applicants should have a Ph.D., M.D., or equivalent degree and evidence of research productivity and signal transduction. The Department has an NIH Training Grant to support its successful graduate and postdoctoral training programs. Primary responsibility is for teaching graduate education. Excellent laboratory space and core facilities are available in the cytobiology, molecular biology, murine physiology and transgenic mouse gene targeting. Development of research plans, and the names of three references to: Search Committee Chair, Department of Cellular Physiology College of Medicine University of Cincinnati P.O. Box 670756 Cincinnati, OH 45267-0576

The University of Cincinnati is an Affirmative Action/Equal Opportunity Employer. Disabled and Vietnam-era veterans, minorities, women and veterans are encouraged to apply.

MICROBIOLOGY

Assistant Professor (Tenure-Track)

The Medical College of Ohio invites applications for a TENURE-TRACK POSITION in the Department of Microbiology. Candidates must have a doctoral degree and postdoctoral training. Primary research interests should involve molecular aspects of pathogens, with emphasis on host-pathogen interactions. Teaching responsibilities include participation in a microbiology course for medical students and development of a graduate level course in molecular pathogenesis. The successful candidate is expected to develop an independent research program based on extramural and/or departmentally supported funding, and a state-supported salary is available. A curriculum vitae, future research plans, and three letters of recommendation should be sent to: Dr. John A. Bence, Department of Cellular Physiology Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43699. Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT/ASSOCIATE PROFESSOR

PHYSIOLOGY/CELL BIOLOGY

The Department of Physiology and Cell Biology at the University of Nevada, Reno, is seeking capable applicants for a full-time, tenure-track position at the ASSISTANT or ASSOCIATE PROFESSOR level. Applicants should have a Ph.D., M.D., or equivalent degree and postdoctoral experience in an area of research allowing an independent investigation of a problem of interest in the molecular basis of cell growth and signaling, with emphasis on signal transduction. The Department has a faculty with special interests in signal transduction, using techniques including positional cloning and screening, cloning preferred. Experience in protein biochemistry, molecular biology, or mouse genetics is desirable. Please send curriculum vitae, the names of three references, and a brief summary of research experience to: J. Evan Sadler, M.D., Ph.D., Washington University School of Medicine, 660 South Euclid Avenue, Box 8022, St. Louis, MO 63110. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS

available immediately for Ph.D. in molecular biology to study the role of en- dogenous neurotransmitters in neurodegeneration. Interested candidates possessing experience in using isolated nerve terminals, stereotaxic injection, and cell culture methods should send curriculum vitae, a brief statement of research interest, and names and telephone numbers of three references to Dr. Melvin L. Mather, The University of Texas Health Science Center at Houston, Department of Neurobiology, 7500 Fannin, Suite 3345, Houston, TX 77030. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP

UNIVERSITY OF PENNSYLVANIA

SENIOR POSTDOCTORAL POSITION available immediately for the study of the molecular biology of ion channels in smooth muscle. Send curriculum vitae and names of three references to Dr. Robert E. Hauser, Department of Pharmacology, University of Pennsylvania, Philadelphia, PA 19104-0464.

A POSTDOCTORAL POSITION is immediately available to study the mechanisms of cell signal transduction pathways using viral vector mediated gene transfer and electrophysiological analysis of cell function. Previous experience in molecular or cell biology, or virology is desirable. Experience in profile of interest and experience, curriculum vitae, and list of three references to: Robert H. Cox, Ph.D., Graduate Hospital, Office of the Director, Philadelphia, PA 19141. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS available immediately for postdoctoral research relating to the identification and characterization of novel transcription factors that mediate cell proliferation and differentiation. Experience in protein biochemistry, molecular biology, or mouse genetics is desirable. Please send curriculum vitae, the names of three references, and a brief summary of research experience to: J. Evan Sadler, M.D., Ph.D., Washington University School of Medicine, 660 South Euclid Avenue, Box 8022, St. Louis, MO 63110. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately for NIH-funded study of thrombolytic mechanisms in schizoaffective patients. Experience with large sioning techniques, human thalamic anatomy, stereotactical techniques is essential. This project is funded for the two-year period with an excellent salary and benefits. Applicants should have a Ph.D. in Neuroscience, and at least three years of experience. Interested individuals telephoning five numbers to: Dr. Mark A. Kornblum, M.D., Department of Neurology, University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104.

POSTDOCTORAL ASSOCIATE

Molecular Genetics—Position available immediately for projects con- cerning the identification and characterization of novel transcription factors that mediate cell proliferation and differentiation. Experience with techniques for the analysis of mammalian genomes, including strategies for differential display, mouse embryonic stem cells, and in situ hybridization techniques. Interested candidates should submit curriculum vitae, a description of research experience, and names of three references to: Joseph R. Testa, Ph.D., c/o Human Resources-MAM, Fox Chase Cancer Center, 7701 Burholme Avenue, Philadelphia, PA 19111. Equal Opportunity Employer.

MICROBIOLOGY

Assistant Professor (Tenure-Track)

The Medical College of Ohio invites applications for a TENURE-TRACK POSITION in the Department of Microbiology. Candidates must have a doctoral degree and postdoctoral training. Primary research interests should involve molecular aspects of pathogens, with emphasis on host-pathogen interactions. Teaching responsibilities include participation in a microbiology course for medical students and development of a graduate level course in molecular pathogenesis. The successful candidate is expected to develop an independent research program based on extramural and/or departmentally supported funding, and a state-supported salary is available. A curriculum vitae, future research plans, and three letters of recommendation should be sent to: Dr. John A. Bence, Department of Cellular Physiology Medical College of Ohio, 3000 Arlington Avenue, Toledo, OH 43699. Medical College of Ohio is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

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Tenure-Track And Postdoctoral Opportunities.

Listed below are some of the outstanding research training opportunities that are currently available at the National Institutes of Health.

--- Tenure-Track Position ---

**Assistant Professor Equivalent**

**Reproductive Endocrinology**
Carolyn Bondy, MD

A position is available to develop an independent research program investigating fundamental mechanisms of reproduction. Expertise in laboratory investigation with an emphasis on current molecular strategies is required. The candidate must be certified in Reproductive Endocrinology and prepared to eventually assume leadership of the NICHD Reproductive Endocrinology program. A two-page statement of research interests and goals should be submitted in addition to three letters of recommendation. Developmental Endocrinology Branch (OE-82), NICHD, Building 10, Room 10N262, 10 CENTER DR MSC 1862, BETHESDA MD 20892-1862.

--- Postdoctoral Positions ---

**Behavioral Genetics**
Jacqueline N. Crawley, PhD

A position is available to conduct behavioral analyses of transgenic and knock-out mice, and of rodent strains with rare genotypes, relevant to neuropsychiatric disorders. Opportunities exist for collaborations with investigators from several NIH Institutes on the Bethesda campus to test new mutations in neurotransmitters, receptors, developmental, and structural genes. Experience in behavioral genetics and behavioral neuropharmacology is required. Section on Behavioral Neuropharmacology (OE-82), NIMH, Building 10, Room 4N212, 10 CENTER DR MSC 1380, BETHESDA MD 20892-1380.

**Cellular Neuroscience**
R. Douglas Fields, PhD

Signaling pathways regulating gene expression, cell adhesion, axon guidance, and synaptic plasticity during nervous system development are being studied in neuronal culture. Applicants should have an interest in activity-dependent remodeling of the nervous system, expertise in quantitative PCR or standard molecular techniques, and must have less than five years of postdoctoral experience. Laboratory of Developmental Neurobiology (OE-82), NICHD, Building 49, Room 5A38, 49 CONVENT DR MSC 4480, BETHESDA MD 20892-4480.

**Molecular Neurobiology**
David C. Klein, PhD

Efforts will be focused on the molecular analysis of the neural and developmental regulation of genes involved in melatonin synthesis. Candidates must be fully trained in molecular biology and have special expertise in expression cloning, subtraction techniques or related methodologies. Laboratory of Developmental Neurobiology (OE-82), NICHD, Building 49, Room 5A38, 49 CONVENT DR MSC 4480, BETHESDA MD 20892-4480.

--- Neuroendocrinology ---

**Neuroendocrinology of Memory in Monkeys**
Mortimer Mishkin, PhD

The neuroendocrinological and neurochemical aspects of learning and memory in primates are being investigated utilizing the techniques of *in vivo* microdialysis and direct intracerebral drug injections. A special emphasis is placed on the contributions and interactions of the cholinergic and glutamatergic systems. Applicants should have a strong background in pharmacology and/or biochemistry and behavioral testing methods (preferably in primates). Laboratory of Neuropsychology (OE-82), NIMH, Building 49, Room 1B80, 49 CONVENT DR MSC 4415, BETHESDA MD 20892-4415.

--- Oxidative Stress Antioxidant Defense Mechanisms ---

**Rodney L. Levine, MD, PhD**

The molecular responses to oxidative stress, especially those mediated through modification of proteins is being studied. The specific topic of study will be selected jointly by the successful candidate and Dr. Levine and will focus on the biochemistry, molecular biology, or cellular biology of oxidative stress. Laboratory of Biochemistry (OE-82), NHLBI, Building 3, Room 106, 3 CENTER DR MSC 0320, BETHESDA MD 20892-0320, Fax 301-496-0599, Email rlevine@nih.gov.

--- Additional Postdoctoral Fellowship Opportunities ---

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.nih.gov) or modem (1,301-402-2221, or 1,800-358-2221 with parameters set at "?Even, 1"). When connected to NIH, type in "vr100" for terminal emulation, "F5B" for initials, and "AJLI" for account number.

The Postdoctoral Research Fellowship Opportunities catalog, which describes intramural laboratories at the NIH, is also available by request. An electronic version of the catalog may be accessed via the Internet using either the Gopher Information System (gopher.nih.gov) or the World Wide Web (http://www.nih.gov). When connected, select Research Opportunities at the NIH. If you would like to request a catalog or have further questions, please contact the NIH Office of Education, Building 10, Room 1C129, 10 CENTER DR MSC 1158, BETHESDA MD 20892-1158, 301-402-1603, Fax 301-402-0483.

--- To Apply ---

If you hold a doctoral degree (e.g., PhD, MD/PhD, MD, DO, DDS, DMD or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
POSTDOCTORAL POSITION
Albert Einstein College of Medicine

A POSTDOCTORAL POSITION is immediately available in a new NIH-funded research project on novel SCID mouse models chimeric for the human immune and hematopoietic system to study the immunopathogenesis of HIV infection and the efficacy of therapeutic interventions in vivo. This research is funded by grants from the National Institutes of Health (E3M: 179:513, 1994), PNAS: 91:8032, 1994; JI: 154,907, 1995). Candidates should have significant expertise in molecular biology, cell and immunology, tissue culture and a serious interest in HIV research. Please send curriculum vitae and names of three references to: Dr. Harris Goldstein, Albert Einstein College of Medicine, Chauncey Olney, Jack and Pearl Resnick Campus, 1300 Morris Park Ave, Bronx, NY 10461. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS
INSTITUTE OF MOLECULAR BIOLOGY
ACADÉMIA SINICA, TAIWAN, ROC

Several POSTDOCTORAL POSITIONS in the Institute of Molecular Biology, Academia Sinica, will be available starting July 1, 1995. Recent Ph.D. with training and interest in one or more research areas including cell biology, molecular biology, molecular genetics, regula-
tion, transgenic mice technology, immunology, virology, signal transduction, protein biochemistry, and cys-
toskeletal biology, cellular immunology, tissue culture and who looks forward to the challenge of learning ATOMIC MICROSCOPY. Experience with scanning Probe Microscopy is necessary. Interested candidates should send curriculum vitae, a statement of research interests and interests of three references to: Professor Paul Hansma, Department of Physics, University of California, Santa Barbara, CA 93106. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS
Academia Sinica, Taiwan, ROC

Several postdoctoral positions in the category of the Academia Sinica POSTDOCTORAL FELLOW are available immediately to work in different Institutes of the Academia Sinica. Research areas spreading over Humanities and Social Sciences, Mathematics and Physical Sciences, and Life Sciences. Those who have obtained a Ph.D. with distinction within the last four years are eligi-
ble to apply. No deadline for application but the review process will take place starting from July 1, 1995. Appointment for successful candidates lasts for two years per term, renewable for another term. Salary US. $3,350 to $3,600 per annum plus reimbursement for reasonable expenses. Please send a complete application (available upon request made via telephone or FAX), a research plan, curriculum vitae, copies of publications and names of three references to: Central Advisory Committee, Academia Sinica, Nankang, Taipei 11529, Taiwan, ROC. Telephone: 886-2-783-9406; Fax: 886-2-783-4496.

POSTDOCTORAL POSITION
THE BOSTON UNIVERSITY SCHOOL OF MEDICINE
DEPARTMENT OF NEUROLOGY

Electrophysiologist sought for a POSTDOCTORAL POSITION in the Laboratory of Molecular Neurobiology, a multidisciplinary research group interested in the modulation and regulation of ligand-gated ion channels in neurons. Electrophysiological, pharmacological, biochemical and molecular biological techniques are combined to study the mechanisms of receptor modulation and regulation by neuromodulators and plasticity factors. Receptors systems under investigation include the glutamate, GABA, and glycine receptors. Previous electrophysiology experience required; previous single channel recording experience desirable. Send curriculum vitae and references to: David C. Farb, Chairman, Department of Pharmacology, Boston University School of Medicine, 80 East Concord Street, Boston, MA 02118-2394.

POSTDOCTORAL POSITIONS
INSTRUCTURAL BIOLOGY

Structural Biology laboratory focusing on the p53 tumor suppressor and the cell cycle regulatory cydin-cdk complexes has POSTDOCTORAL POSITIONS available. Successful applicants will assume projects aimed at understanding the structural biology of related proteins that regulate eukaryotic cell growth and proliferation. The preferred candidates will be highly motivated and have experience in macromolecular structure determination and cell biology. Interested applicants who focus on computational methods are also encouraged to apply. Send curriculum vitae and names of three references to: Dr. Nikola P. Pavletich, Department of Molecular Sloan-Kettering Cancer Center, Box 576, 1275 York Avenue, New York, NY 10021. FAX: 212-717-3066. Equal Opportunity/Affirmative Action Employer.
National Cancer Institute / National Institutes of Health / Public Health Service

CANCER PREVENTION FELLOWSHIP PROGRAM

The Division of Cancer Prevention and Control (DCPC), NCI, is accepting applications for the Cancer Prevention Fellowship Program (CPF). The purpose of this program is to train individuals from a multiplicity of health science disciplines in the field of cancer prevention and control. The program provides for: Master of Public Health training (at accredited university programs); Participation in the DCPC Cancer Prevention and Control Academic Summer Course (open to physicians and scientists interested in learning the principles and practice of cancer prevention and control); Working at DCPC directly with individual preceptors on cancer prevention and control projects; Brief field assignments in cancer prevention and control programs at other institutions. Funding permitting, Fellows will be accepted for up to three years of training, beginning July 1, 1996. Benefits include selected relocation and travel expenses, paid federal holidays, and participatory health insurance.

Eligibility

M.D., D.D.S., or D.O. from a U.S., territorial, or Canadian Medical School. Foreign medical graduates must have current USMLE or ECFMG certification and appropriate experience, e.g., one year residency in a training program approved by the Accreditation Council for Graduate Medical Education.

Or

Ph.D. or other doctoral degree in a related discipline (epidemiology, biostatistics, and the biomedical, nutritional, public health or behavioral sciences). Foreign education must be comparable to that received in accredited U.S., territorial, or Canadian institutions.

Plus

The applicant must be a U.S. citizen or resident alien eligible for citizenship within four years.

For details and an application catalog either call, fax or send a postcard or letter with your name, home address, and where you heard about the program to:

Douglas L. Weed, M.D., M.P.H., Ph.D., Director
Cancer Prevention Fellowship Program
Division of Cancer Prevention and Control
National Cancer Institute
Executive Plaza South, Suite T-41
6130 EXECUTIVE BLVD MSC 7105
BETHESDA MD 20892-7105

Further Inquiries: Mrs. Barbara Redding - tel: (301) 496-8640; fax: (301) 402-4863; email REDDINGB@dcpcps.nci.nih.gov

DEADLINE FOR RECEIPT OF APPLICATIONS: SEPTEMBER 1, 1995

NIH is an Equal Opportunity Employer

PROFESSOR AND HEAD OF THE DEPARTMENT OF MICROBIOLOGY AND MOLECULAR GENETICS

HARVARD MEDICAL SCHOOL

Harvard Medical School is seeking an outstanding medical scientist to serve as the Adele Lehman Professor of Microbiology and Molecular Genetics and Head of the Department of Microbiology and Molecular Genetics. The department head of microbiology and molecular genetics is responsible for providing strong leadership in basic research, in recruitment and coordination of faculty, and in the teaching of medical students, graduate students, and research fellows. He/she is also responsible to the Dean for the development of the department’s short- and long-range academic plans. The successful candidate must be an outstanding scholar who is widely recognized as a preeminent in the fields of cellular, molecular, and/or experimental microbiology and molecular genetics. Areas for research could include virology, bacteriology, microbial pathogenesis, as well as other areas of microbiology and molecular genetics.

Applicants should submit a curriculum vitae and a statement of research interests immediately to: Dr. Peter M. Howley, Chairperson of the Department of Pathology and Chairperson, Search Committee, Harvard Medical School, Building D2, Room 630, 200 Longwood Avenue, Boston, MA 02115.

Harvard Medical School is an Affirmative Action/Equal Opportunity Employer. Qualified women and minority candidates are encouraged to apply.
POSTDOCTORAL POSITIONS

**A)** POSTDOCTORAL POSITIONS IN NEUROSCIENCE

University of Texas Medical Branch at Galveston

The Department of Anatomy & Neurosciences and the Marine Biomedical Institute at the University of Texas Medical Branch at Galveston is seeking POSTDOCTORAL CANDIDATES for positions in Neuroscience starting after July 1, 1995. The fields of investigation supported by a Training Grant from the NINDS are: (i) mechanisms of learning and memory, (ii) control of locomotion in *Aplysia*, (iii) neuronal regulation of endocrine function and (iv) sensory mechanisms in *Aplysia*. Stipend levels are at NIH levels and are in accordance with prior postdoctoral experience. Applicant should send a curriculum vitae and bibliography, the names of three individuals willing to write letters of recommendation, and a statement concerning research interests to: Dr. D. Willis, Jr., M.D., Ph.D., Program Director, Neuroscience Training Program, Department of Anatomy and Neurosciences and Marine Biomedical Institute, University of Texas Medical Branch, Galveston, TX 77555-1069. UTMB is an Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply. UTMB hires only individuals authorized to work in the United States.

**B)** UNIVERSITY OF MINNESOTA

Department of Laboratory Medicine and Pathology

A POSTDOCTORAL ASSOCIATE POSITION is available for candidates interested in participating in investigations of protein expression in response to growth stimuli in the prostate (see e.g., *J. Biol. Chem.*, 269:24615-24620, 1994 for our recent publications). Applicants must have Ph.D. and experience in molecular biology. Knowledge of signal transduction and regulatory mechanisms is required. Send applications to: Dr. Marion Murray, Department of Laboratory Medicine and Pathology, Medical College of Pennsylvania, 3200 Henry Avenue, Philadelphia, PA 19129.

**C)** UNIVERSITY OF NEW YORK

POSTDOCTORAL POSITIONS in Neuroendocrine Control of Receptors and Transduction Processes

New York University Medical Center

Two POSTDOCTORAL TRAINING POSITIONS are available for studies on the mechanisms of complement inhibition. A background in molecular biology is desirable. Applicants will be supported by an NIH training grant, requiring U.S. citizenship or resident status.

Send applications to: Dr. S. Tomlinson or Dr. M. B. Whitolm, New York University Medical Center, Department of Pharmacology, 400 E. 68th Street, New York, NY 10016. Minority applicants are encouraged to apply.

**D)** RESEARCH ASSOCIATE

Two RESEARCH SCIENTISTS-Oceanographers to work in Prince William Sound, Alaska. Experience in acoustical and optical underwater sensing technologies. Signal and analytical processing knowledge using IDL, AVS, ARCMAP, and software required. Send CV and references to: Dr. Don P. Wolf, Oregon Regional Primate Research Center, 505 N.W. 185th Avenue, Beaverton, OR 97006. Equal Opportunity/Affirmative Action Employer.

**E)** RESEARCH ASSOCIATE

Ecological Risk Assessor

Sciences International Inc., a dynamic and environmental sciences consulting company with a mission of applying multisciplinary expertise to solve environmental problems, is seeking an ecological risk assessment expert able to lead site risk assessment activities. This senior-level position requires at least five years experience in negotiating with agencies, and design and implementation of field studies. The ideal candidate will have an M.S. or Ph.D. in ecology, limnology or related field, at least five years of experience with aquatic and terrestrial projects, and strong written and oral communication skills. Please mail résumé along with salary requirements to: 1800 Diagonal Road, Suite 500, Alexandria, VA 22314. Equal Opportunity Employer.
The Pathology Branch, Environmental Toxicology Program, National Institute of Environmental Health Sciences has opportunities for four permanent positions as Veterinary Medical Officers in several areas of research and testing related to the identification and characterization of chemical and physical environmental agents that have the potential to cause adverse health effects. U.S. citizenship is required. Salary will be commensurate with experience and qualifications. Salary ranges are as follows: (GS-13 $50,706 - $65,915; GS-14 $59,920 - $77,893; GS-15 $70,482 - $91,629).

**SENIOR PATHOLOGIST:**
GS-14 (Code: HNV106A) GS-15 (Code: HNV106B)
Research and management of studies to determine toxic and carcinogenic effects of xenobiotics. Experience in rodent carcinogenesis pathology, morphology, immunohistochemistry and molecular biology is preferred. For further information contact: Dr. Gary A. Boorman, (919) 541-3440, Fax (919) 541-4714, email BOORMAN@NIEHS.NIH.GOV.

**TOXICOLOGICAL PATHOLOGIST:**
GS-13 (Code: HNV107A) GS-14 (Code: HNV107B)
Management of rodent studies, review of morphological diagnoses, determining terminology and criteria for toxic and carcinogenic lesions in B6C3F1 mice and F344 rats. Serves as study director for chemicals under evaluation. For further information contact: Dr. Rick Hailey, (919) 541-0294, Fax (919) 541-4714, email HAILEY@NIEHS.NIH.GOV.

**TOXICOLOGIST/PATHOLOGIST:**
GS-13 (Code: HNV108A) GS-14 (Code: HNV108B)
Serves as study director for new chemicals, plans studies, develops protocols that will provide meaningful information that can be used in risk assessment. Experience in molecular biology and modeling of chemical effects is preferred. For further information contact: Dr. Gary A. Boorman, (919) 541-3440, Fax (919) 541-4714, email BOORMAN@NIEHS.NIH.GOV.

**PATHOLOGIST FOR ALTERNATE SPECIES:**
GS-13 (Code: HNV109A) GS-14 (Code: HNV109B)
Management of studies to evaluate chemicals using small fish models. Plans studies that will help reduce the number of rodents needed in chemical evaluations, determines which alternate models may prove most effective. Experience in small fish models and carcinogenicity studies is preferred. For further information, contact: Dr. Gary A. Boorman, (919) 541-3440, Fax (919) 541-4714, email BOORMAN@NIEHS.NIH.GOV.

The closing date of this announcement is June 1, 1995. To ensure consideration, send cover letter indicating the position(s), by code number, to:

Ms. Norma Daye, NIEHS Personnel Office
P. O. Box 12233, Research Triangle Park, NC 27709
(919) 541-3377

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**TRUDEAU INSTITUTE, INC.**

A POSTDOCTORAL POSITION in IMMUNOLOGY is available for a person with training in cellular and/or molecular immunology to study the immune response to bacterial infections. The laboratory is currently emphasizing immunity to experimental tuberculosis.

**THE TRUDEAU INSTITUTE** is a well-endowed, not-for-profit, basic research institute with modern facilities, up-to-date equipment, in-house animal production, efficient management and an international reputation for excellence. The Trudeau Institute is located on the shore of Saranac Lake, 8 miles from Lake Placid. Competitive salary and fringe benefits are offered and institute housing will be made available.

Applications consisting of a curriculum vitae and the names and addresses of three references should be addressed to:

Robert J. North, Ph.D., D.Sc.
Director
Trudeau Institute, Inc.
P.O. Box 59
Saranac Lake, NY 12983

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**Drug Discovery in Hematopoiesis**

Merck Research Laboratories is seeking applicants for two positions in the Hematopoietic Growth Factor Research Group. The group focuses on discovery of compounds with hematoregulatory activity and research on the mode of action of hematoregulatory cytokines.

**Senior Research Biologist:** To perform research in the signal transduction pathways of hematoregulatory cytokines and to elucidate the mode of action of hematoregulatory compounds. The successful candidate will have a Ph.D. or equivalent degree with at least 2 years of postdoctoral experience and strong research training in Cell Biology and Biochemistry of receptor signal transduction. Experience with cell biology of cytokines on hematopoietic progenitor cell lineages preferred.

**Staff Biologist:** To perform research in the discovery of hematoregulatory compounds. Research experience with hematopoietic progenitor cell lineages and the ability to identify various progenitor colonies in semi-solid media are essential. The successful candidate will have an M.S. or equivalent degree in biology, or a B.S. degree or equivalent with at least 2 years of experience with clonogenic assays.

Salary, benefits and growth potential for these positions are excellent. The work location is in Rahway, New Jersey, approximately 25 miles from New York City. Please send resume, no later than June 15, with an outline of research interest and names of three references addressed to: Mr. Ken Weiss, Human Resources, Merck & Co., Inc., P.O. Box 2000, RY80-A-3 (AD #162), Rahway, NJ 07065. EEO/AA/VH Employer.
SENIOR RESEARCH
FOOD MICROBIOLOGIST

Cargill’s Central Research Department, in Minneapolis, is seeking a Microbiologist to lead projects to develop technology for the control of microorganisms in food and feed. Using food microbiology as an enabling technology in the areas of preservation and shelf life, the scientist in this position will participate in the development of new products. To qualify, you must have a PhD in microbiology, or Food Science with 2 to 5 years experience, post PhD and knowledge of food microbiology and food chemistry, including pathogenic microorganisms in food and feed. Experience in food preservation and interactions of microorganisms with food and feed systems, good oral and written communication and teamwork skills are a must.

SENIOR RESEARCH CHEMIST

We also have an opportunity for a Senior Research Chemist with a PhD in Food Science or Cereal Science and 2-5 years of experience (industry or academic based) to develop new products for our Food Sector using a variety of cereal grains. Applicants must have knowledge of cereal grains and their application in food as well as an understanding of the chemistry of the interaction of cereal components.

As one of the largest and most diverse agri-business companies in the world, Cargill can provide many opportunities and experiences you may not find with other companies. Career development plays an integral role in the Cargill experience. Effort and expertise are rewarded with highly competitive compensation and excellent benefits. For consideration, please submit your resume, including salary requirements and position of interest, to: Cargill, Inc., Donna Bloom, Human Resources #10, P.O. Box 5697, Minneapolis, MN 55440. Fax (612) 742-7022. No phone calls please.

Equal Opportunity Employer

CARGILL

Terrapin
TECHNOLOGIES, INC.

Scientist

Terrapin Technologies, a dynamic young organization with proprietary targets in intracellular signaling and a unique drug discovery technology, seeks a T Cell biologist to join its staff. The successful candidate will have experience in all aspects of T cell biology including cell isolation and functional characterization. A Ph.D. and 3 years of postdoctoral experience are required. Qualified scientists should send a letter of application, curriculum vitae, publication list and names of references to Human Resources/MS, Terrapin Technologies, Inc., 750-H Gateway Blvd., South San Francisco, CA 94080. Terrapin Technologies is an Equal Opportunity/Affirmative Action Employer.

Executive Director
Northeastern Regional Aquaculture Center
University of Massachusetts Dartmouth

The Northeastern Regional Aquaculture Center (NRAC) at the University of Massachusetts Dartmouth (UMassD) invites nominations and applications for the position of Executive Director. NRAC is one of five regional aquaculture centers established by the U.S. Congress. It is funded annually by the U.S. Department of Agriculture at annual level of approximately $750,000. The northeastern region includes 12 states and the District of Columbia. NRAC develops and sponsors cooperative regional research and extension education projects on behalf of the aquaculture industry in the northeastern U.S. NRAC is governed by a Board of Directors which relies heavily on technical and industry advisory committees.

Candidates should have outstanding technical knowledge and successful experience in aquaculture, which may include but not be limited to research, teaching, or commercial experience. Demonstrated administrative and leadership abilities are essential.

A Ph.D. is preferred but exceptional candidates with equivalent experience will be considered. The successful candidate should be qualified to teach graduate and undergraduate courses in aquaculture and advise graduate students. It is particularly important that the Executive Director be able to communicate well with industry, academic, and government representatives in aquaculture and can demonstrate strong leadership in a team-building approach to project development and management. Salary is competitive and will be based on qualifications and experience. Benefits will include health and dental plans, a retirement plan, vacation, and sick leave. The Executive Director will be employed by NRAC and will report jointly to NRAC’s Board of Directors and the UMassD Provost and Vice Chancellor for Academic Affairs.

Applications should contain a letter of interest, Curriculum Vitae, and names, titles and phone numbers of three references. Position will be available from August 1, 1995. Review of applications will begin on June 1, 1995 and continue until a successful candidate has been selected. All communications regarding this position should be addressed to:

NRAC Executive Director Search
Office of Human Resources
University of Massachusetts Dartmouth
285 Old Westport Road
North Dartmouth, MA 02747-2300

The University of Massachusetts Dartmouth is an Affirmative Action/Equal Opportunity Employer.
We have the Authority to explore new directions

Discover the exceptional opportunities, resources and satisfaction waiting for you at The Charlotte-Mecklenburg Hospital Authority. United by a shared commitment to excellence in primary and specialty care, the more than a dozen facilities that make us one of the Southeast's premier healthcare systems offer you the ideal setting for personal and professional growth.

Carolinas Medical Center is a 843-bed acute care teaching facility and one of the major referral centers in the Southeast.

Emergency Medicine Research Director
Carolinas Medical Center is currently seeking a Director of Emergency Medicine Research for the Department of Emergency Medicine. The Director is responsible for overseeing the development of vigorous basic research projects in cardiovascular physiology, pharmacology and toxicology and assisting in clinical projects designed to advance the scientific foundations of Emergency Medicine. The position will also be responsible for budgetary planning, purchases for the laboratory, capital expense budgeting and supervision of employees in the laboratory. The qualified applicant must have a Ph.D., experience in supervision of a laboratory operation, knowledge of animal care regulations, grant writing and extramural funding and experience in training research fellows, resident physicians and students. Other requirements include expertise in personal computer-based software including statistical packages and experience with physiology, pharmacology and biochemistry techniques. Qualified candidates should submit resume and salary requirements to:

Director, Employment Division
The Charlotte-Mecklenburg Hospital Authority
Doctor’s Building, Suite 101
1012 S. Kings Drive • Charlotte, NC 28283
EOE

The Charlotte-Mecklenburg Hospital Authority

GLOBAL CAREER OPPORTUNITIES

Director
International Institute for Applied Systems Analysis (IIASA)
Laxenburg (Austria)

The Executive Council of the International Institute for Applied Systems Analysis (IIASA) invites nominations and applications for the position of Director. IIASA is an international non-governmental research organization, located in Laxenburg near Vienna (Austria) and supported by seventeen countries. The Director supervises 85 professionals and approximately 100 support staff with an annual budget of $15 million. He or she plans and oversees a broad range of programs concerned with global environmental change, develops and recommends policies for the execution of research programs, determines the effectiveness of current programs, and develops new and revised programs.

The applicant should be capable of providing an imaginative leadership in developing the potential role of an institution such as IIASA, should have a track record of general management experience in a scientific preferably international -research institution and should have recognized experience with interdisciplinary research. He or she should have an excellent command of English, the working language of the Institute. Knowledge of at least one other major European language is desirable (preferably Russian or German).

Nominations and applications should be sent to:

Professor K.L. KOMAREK
The Director’s Search Committee
IIASA-Schloss Laxenburg
A-2361 Laxenburg
Austria

Applications should be accompanied by a current curriculum vitae, a bibliography, and a cover letter that addresses the qualifications of the position. Salary commensurate with experience. Review of applications will begin on July 1st, 1995.

GLOBAL CAREER OPPORTUNITIES

Ecole Polytechnique Fédérale de Lausanne

Applications are invited for the following position at the Department of Physics:

Assistant professor
of
Biomedical engineering

The field of research covers especially the characterization of microscopic and macroscopic physical properties of the living matter. The candidate is expected to participate in teaching physics and biomedical engineering courses at the undergraduate and graduate level.

Women candidates are especially encouraged to apply.

Deadline for applications: August 31, 1995

Preferred start date to be discussed.

Interested candidates should ask for the application form to: Présidence de L’Ecole polytechnique fédérale de Lausanne, CE-Ecublens, 1015 Lausanne, Switzerland.

UNIVERSITY OF MANCHESTER
SCHOOL OF BIOLOGICAL SCIENCES

Wellcome Trust Matrix Unit
Senior Research Investigator

Applications are invited from biochemists/molecular biologists with an interest in developing eukaryotic cell expression of proteoglycan constructs to investigate the control of proteoglycan biosynthesis and the effects of mutagenesis on proteoglycan matrix functions. The position provides a good opportunity for career development and is within the newly formed Wellcome Trust Cell Matrix Unit as part of the team led by Professor Tim Hardingham investigating the extracellular matrix functions of proteoglycans. The position is available from October 1995 and is funded by the Wellcome Trust for 5 years commencing at a salary in the range £13,941 - £22,622 p.a. (Grade 1A or II). Informal enquiries to Professor Tim Hardingham (tel. (44) 161 275 5511, fax. (44) 161 275 5082). Closing date for applications June 30th. Application forms and further particulars available from the Director of Personnel (Academic Staffing), The University, Manchester M13 9PL, U.K. (tel. 0161 275 2028, fax: 0161 273 5306).

Quote ref: 144/95.

As an Equal Opportunities Employer, the University welcomes applications from suitably qualified people from all sections of the community regardless of race, religion, gender or disability.

Promoting quality teaching and research.
The University of Groningen
The Netherlands

has an opening for a

Professor in
Inorganic Solid State Chemistry

(vacancy number: 950502)

at the Laboratory of Chemical Physics, Department of Chemistry.

We are looking for an enthusiastic materials scientist with a proven capability to prepare and study inorganic solid state compounds with interesting physical properties. A strong interest in the fundamental relationship between these properties and the composition and structure of the compounds should be a primary motivation.

The research in the laboratory forms part of the research program of the Materials Science Centre, a Research School in which important parts of the research of the Departments of Physics and Chemistry are brought together. In this centre modern facilities and broad expertise are available for the physical characterization of solids, in bulk as well as in thin layers. These facilities encompass the instruments for structure determination by X-ray diffraction, and for the measurements of optical, electrical, magnetic and thermal properties in the Inorganic Solid State group that will be directed by the appointee. In addition to this research group the laboratory consists of three more groups: Inorganic Thin Layers (epitaxy, in situ characterization techniques), Theoretical Chemistry (theory and computation of electronic structures) and Spectroscopy (ultra-fast laser spectroscopy, non-linear optics).

The staff of the laboratory contributes to the courses in physical and inorganic chemistry for all science students and is responsible for the advanced courses and research projects for students specializing in physical and inorganic solid state chemistry.

Experience in carrying out independent research of high quality, the ability to direct a research group and good teaching qualities are required.

The successful applicant is expected to acquire an adequate knowledge of the Dutch language within a reasonable period.

The appointment carries tenure. The salary will be between Dfl. 7.867, -Dfl. 13.953,-per month, depending on qualifications and personal circumstances.

Further information can be obtained from Prof. W. C. Nieuwoort, appointment committee chairman, either by phone (+31)50-634372 or 634440, or by Internet email to NIEUWPOORT@CHEM.RUG.NL

Letters of applications, including a curriculum vitae, a list of publications and names and addresses of three referees, should be sent within four weeks after publication of this advertisement to the Head of Personnel Department, University of Groningen, P.O. Box 72, 9700 AB Groningen, The Netherlands.

For over a century, breakthrough research has helped Abbott Laboratories deliver generation after generation of highly advanced pharmaceuticals. Today, as a globally renowned health care leader, our world class research team continues to consistently deliver ground breaking products to market. Now you could join us and help bring a new age of drug discovery to life.

Chemical Information Scientist

You will develop and support chemical information systems for application in pharmaceutical products R&D. These systems support combinatorial chemistry, drug sample inventory, chemical modeling and synthetic organic chemistry. You will have broad responsibilities including project leadership, full software life cycle planning, development, maintenance, and support, conformance to federal regulations, chemical database administration and technology evaluation.

We require a PhD in Chemistry or equivalent, at least two years of project leadership experience, and four years of scientific software development background.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. For confidential consideration, please send your resume and salary history to: Linda DeLavalada, D-393, APSI, Job #90074BE, Abbott Laboratories, 100 Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

ABBOTT LABORATORIES
Quality Health Care Worldwide
Since 1888

Discover A Unique Approach

Amgen is the world’s largest biotechnology company. We currently have career opportunities available at our Boulder, CO facility.

To qualify for the following positions, candidates must have experience in programming using Visual Basic, Pascal, or C for instrument control, interfacing, data acquisition and processing in a UNIX, VMS, Windows and/or Mac OS environment.

SCIENTIFIC PROGRAMMER

We currently seek a scientist/engineer to define the needs of scientific functional areas and implement software solutions through collaboration with vendors and consultants. Candidates must have at least 5 years’ experience in computer programming, interfacing, and data processing in a laboratory environment. A BS in Chemistry, Biology, Computer Science, or a related engineering/technical field is also required. (Job Code: OXP-SC-1234)

RESEARCH SCIENTIST – LABORATORY AUTOMATION

This individual will define automation opportunities, implement solutions, and evaluate technology with vendors and consultants. To qualify, candidates must have experience in developing and implementing robotics and automation in a laboratory environment. An advanced degree in Chemistry, Biology, or related engineering/technical field is also required. (Job Code: OXP-SC-5678)

At Amgen, you’ll find our approach as rewarding as it is effective. We offer a highly competitive compensation and benefits package. Please mail your resume to: Amgen Boulder, Human Resources Dept., Job Code: (see above), 3200 Walnut Avenue, Boulder, CO 80301. Principals only, please. EEO-Affirmative Action Employer M/F/D/V. We recognize that diverse perspectives are a key factor in the process of discovery.
**Science**

Gladstone Institute of Virology and Immunology, a modern, well-equipped research laboratory affiliated with University of California at San Francisco is seeking:

**Director, Preclinical Antiviral Development**

Conduct in vitro and in vivo experiments on antiviral compounds, manage administration of department (interviewing, supervising, reports, budgets, etc.) serve as chief liaison for scientific/operational matters, facilitate/assist in grant contract application process, develop biosafety program for work with HIV. Required: MD, PhD or equivalent; supervisory experience; and 4 or more years of lab experience in preclinical development of antiviral compounds. Management of government grants and contracts highly desirable.

**To Apply:** Send resume and cover letter, including salary requirements, to: Human Resources- V95-15, Gladstone Institutes, P.O. Box 419100, San Francisco, CA 94141-9100.

EOE/M/F/V/D.

**Coordinator of Programs for Recruitment and Retention in the Life Sciences**

College of Biological Sciences
University of Minnesota

A position is available to coordinate programs for the recruitment and retention of graduate and undergraduate students in the life sciences, with emphasis on underrepresented groups. The successful candidate should have an advanced degree (M.S. or Ph.D.) in some area of the life sciences and a commitment to diversity and to education.

The Coordinator of Programs for Recruitment and Retention in the Life Sciences has primary management responsibility for extensive programs designed to provide access to and success in academic life sciences to gifted and talented members of groups presently underrepresented in life sciences. These programs are designed to increase the number of such students who earn graduate and professional degrees in life science disciplines. The Coordinator will work closely with a faculty Director but will report to the Dean of the College of Biological Sciences. The programs, developed in the College of Biological Sciences, include the Math Science Tutorial program (MST) and the Summer Undergraduate Research (SUR) program. This position is classified in the Professional/Administrative Group, is annually renewable, and 100% time. Salary commensurate with qualifications.

A letter of interest, curriculum vita, and the names and addresses of three references should be sent to Coordinator for Life Sciences Search, 123 Snyder Hall, College of Biological Sciences, 1475 Gortner Avenue, University of Minnesota, St. Paul MN 55108, by June 30, 1995. The University of Minnesota is an equal opportunity educator and employer.

**Molecular Immunologist/Biologist**

DEPARTMENT OF OBSTETRICS, GYNECOLOGY, AND REPRODUCTIVE SCIENCES
UNIVERSITY OF PITTSBURGH SCHOOL OF MEDICINE

Ph.D. Assistant/Associate Professor

The Division of Reproductive Infectious Diseases and Immunology in the Departments of Obstetrics, Gynecology, and Reproductive Sciences at the University of Pittsburgh School of Medicine and Magee-Womens Hospital is seeking a creative and productive researcher with experience in molecular techniques to join the faculty in the dynamic environment of the Magee-Womens Research Institute. Evidence of originality, scientific accomplishment and the potential to develop a productive, independent research program is essential. Candidates should have completed at least one post-doctoral fellowship and have or be willing to develop an interest in immune responses to infections of the female reproductive tract. The position will involve the supervision of post-doctoral fellows, technicians and graduate students in the laboratory. Salary and academic rank will be commensurate with experience, training and achievements. Start-up salary and technical support may be provided, if necessary, until independent funding is established.

Send inquiries and curriculum vitae by August 31, 1995, to:

David V. Landau, M.D.
Director, Division of Reproductive Infectious Diseases and Immunology
Department of Obstetrics Gynecology, and Reproductive Sciences
Magee-Womens Hospital
300 Hanlyk Street
Pittsburgh, PA 15213-3180

The University of Pittsburgh is an equal opportunity/affirmative action employer.
**SENIOR SCIENTIST**
**ANALYTICAL CHEMISTRY**

Genentech is seeking a Senior Scientist/Group Leader in Analytical Chemistry with a PhD in Biochemistry, Chemistry or related field and at least 10 years of experience in the pharmaceutical industry. Biotech industry experience would be a plus.

The successful candidate will take responsibility for the characterization of protein therapeutics and should be familiar with a variety of protein characterization techniques such as peptide mapping, mass spectrometry, capillary electrophoresis, HPLC and SDS-PAGE. You will also be responsible for analytical methods development and transfer of these methods to the Quality Control group. Strong oral and written communication skills are required as you will interact with project teams.

Contact us today and learn about our challenges as well as our excellent salary and benefits package for full time employees that includes child care resources, free health club membership, fully paid medical, dental, and vision coverage and an employee stock purchase plan. For immediate consideration, please send your resume to Genentech, Inc., Human Resources Dept. CSJO, 460 Point San Bruno Blvd., South San Francisco, CA 94080. We actively support and promote affirmative action and equal opportunity employment. Women and minorities are encouraged to apply.

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**POSTDOCTORAL FELLOW**

**Analytical/Clinical Chemistry**

SAIC Frederick, a Division of Science Applications International Corporation, has an immediate opening in our Chemical Synthesis & Analysis Laboratory (CSAL) at the NCI's Frederick Cancer Research & Development Center, a leading biomedical research facility located in Frederick, Maryland.

The successful candidate will have a PhD in analytical or clinical chemistry with 0-3 years of laboratory experience. Work involves the development of methods for the extraction, separation, and detection of hormonal steroids from biological samples. You’ll work in a campus-like setting near Baltimore, MD and Washington, DC. Plus, SAIC offers a competitive salary and a comprehensive benefits program, including insurances, 401(k) savings plan, and more. Forward CV with 3 letters of reference in confidence to Barbara J. Norton-Gill, Technical Recruiter, SAIC Frederick, NCI-FCRDC, P.O. Box B, Frederick, MD 21702. EOE, M/F.

“We value cultural diversity in the workplace”.

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**AIDS/ Hepatitis R&D**

Ortho Diagnostic Systems Inc. provides diagnostic reagents and instrument systems to hospital and commercial clinical labs and blood and plasma donor centers. Products include diagnostic systems for coagulation, infectious diseases, immunology and blood banking. We have immediate opportunities in AIDS/Hepatitis R&D for candidates with excellent written/verbal communication skills, computer literacy, and the ability to interact effectively as a member of cross-functional teams.

**ASSAY DEVELOPMENT/ PRODUCT TRANSFER**

**Senior Scientist**

A Bachelor's degree is required (an advanced degree preferred) in Biology, Chemistry, Biochemistry, Immunology or related discipline with 10+ years of experience in immunoassay development. The successful candidate must have experience in characterizing rare reagents and developing specifications, knowledge of regulatory requirements for raw material selection, and experience in the transfer of immunoassays into Manufacturing. Excellent knowledge of GMPs is required. (Dept. 294)

**Scientist**

A Bachelor's degree is required (an advanced degree preferred) in Biology, Chemistry, Biochemistry, Immunology or related discipline with at least 5 years of experience performing/developing automated immunoassays. Familiarity with clinical performance of current HIV and Hepatitis assays is required. Data analysis and excellent computer skills are also required. Responsibilities include the evaluation of prototype immunoassays and automated equipment, identifying and obtaining critical clinical samples and performance panels, and supporting clinical field trials. (Dept. 295)

**ELISA MANUFACTURING SUPPORT**

**Scientist/Senior Scientist**

The successful candidate at the Scientist level will have a PhD with at least 3 years of industrial experience, preferably in immunodiagnostics. The Senior Scientist level requires a PhD with 5+ years’ of industrial experience, preferably in immunodiagnostics. Experience with ELISA assays and reagent/process validations and product and/or manufacturing support activities is required. Supervisory experience desired. (Dept. 296)

Ours is a smoke-free work place in a campus-like setting ideally located in CENTRAL NEW JERSEY, mid-way between New York City and Philadelphia. We offer competitive salaries and comprehensive benefits including medical/dental insurance, 401(k) plan, and the Johnson & Johnson LIVE FOR LIFE Wellness Program with on-site fitness center.

To apply, please send a copy of your resume suitable for scanning into our database (i.e., clean/clear, no graphics and preferably unfolded) to: Dept. # indicated above for the position of your interest, Johnson & Johnson Recruiting, P. O. Box 16597, New Brunswick, NJ 08906-6597.

We are an equal opportunity employer and support diversity in the workplace.

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**Johnson & Johnson**

“Leadership Beyond Compliance”
Inquiries are invited from qualified applicants for faculty positions available July 1, 1995.

Positions are 9-month tenure track appointments. Eleven month term employment will be offered and continued based upon academic personnel review.

Assistant Professor specializing in Tropospheric Chemistry. Teach and conduct research in the area of tropospheric chemistry including the investigation of the primary biogeochemical cycles involving the atmosphere and regional scale air pollution chemistry. Apply to: Roger H. Shaw, Dept. of Land, Air, and Water Resources. Open until filled: to ensure consideration applications should be received by 6/30/95.

Assistant Professor specializing in Soil Biogeochemistry. Teach and conduct research on the processes of biogeochemical cycling of nutrients and chemicals in agricultural and native soil ecosystems and the impacts of these processes on ecosystem sustainability. Apply to: Randy A. Dahlgren Dept. of Land, Air, and Water Resources. Open until filled: to ensure consideration applications should be received by 6/30/95.

Assistant Professor specializing in Biological Systems Engineering. This position pertains to development of equipment and processes which integrate engineering and biology at a biochemical or cellular level. A new engineering graduate course, most likely related to tissue culture or biotechnology, will be developed by this person. Apply to: Michael Delwiche, Dept. of Biological and Agricultural Engineering. Open until filled: to ensure consideration applications should be received by 8/25/95.

Assistant Professor specializing in Plant Systematics. Teach at undergraduate and graduate levels. Develop a research program that specializes in the systematics, evolution and taxonomic relationships of horticultural crop species. Applicants should have a Ph.D. in Plant Biology, Botany or the equivalent with training and emphasis on taxonomy, systematics and evolution. Apply to; Fred Bliss, Dept. of Pomology. Open until filled: first consideration date not yet determined.

Assistant Professor specializing in Biochemical Genetics. Conduct research on plant biochemistry and/or biochemical genetics with relevance to agricultural plant production, utilization of quality. Teach undergraduate and/or graduate courses in related topics. Apply to: Richard Michelmore, Dept. of Vegetable Crops. Open until filled: first consideration date not yet determined.

Assistant Professor specializing in Botany/Weed Ecophysiology. Teach an undergraduate course in herbicide physiology. The emphasis would be on relationships between plant ecophysiology and herbicide action, selectivity, how these processes are modified by on environmental conditions, and environmental fate of herbicides. There will be opportunity to develop a course along the candidate’s area of specialization. Training of graduate students in the general area of weed science will also be expected. Conduct research on ecophysiology of weeds and crops, including interactions with herbicides. Apply to: Dave Bayer, Dept. of Vegetable Crops. Open until filled: first consideration date not yet determined.

Assistant Professor specializing in Food Chemistry. Teach in areas of food chemistry and toxicology. Develop research in analytical/separation methods for food component and toxic substance isolation. Prefer candidate with expertise in analytical chemistry combined with training or experience in oxidant/anti-oxidant chemistry. Apply to: Ericka Barrett, Dept. of Food Science and Technology. Open until filled: to ensure consideration applications should be received by 6/1/95.

Endowed Chair Position specializing in Agricultural Economics. The Department of Agricultural Economics seeks a senior scholar with a distinguished teaching, research, and service record in agricultural economics for appointment as the Daniel Barton DeLoach Endowed Chair in Agricultural Economics. A substantial endowment is provided to support the purpose of the chair, which is to conduct a research and teaching program in agricultural marketing and trade, including transportation of agricultural commodities. Appointment is expected to be at the Full Professor level. Apply to: Richard J. Sexton, Dept. of Agricultural Economics. Open until filled: to ensure consideration applications should be received by 8/15/95.

Professoral positions have responsibilities for teaching, advising and research (in the Agricultural Experiment Station) and require teaching and research experience. Cooperative Extension positions have responsibilities for applied research and outreach. Candidates must have a Ph.D. in an appropriate field. Applicants should submit resume, transcripts (if within five years of graduation), statement of research and teaching experience, list and reprints of publications, and the names and addresses of at least three persons familiar with the applicant’s qualifications, to individual and department as noted for position (department name), University of California, Davis, CA 95616.

Please indicate the position(s) in which you are interested. The University of California is an Affirmative Action/Equal Opportunity Employer.
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RESEARCH SCIENTIST

Battelle, Pacific Northwest Laboratories (PNNL), an expanding multi-program national laboratory, is seeking a Research Scientist to develop, validate, and supervise analyses of biological samples for organic xenobiotics, drugs, or their metabolites in support of toxicokinetic studies. This position will assist in providing interpretation of toxicokinetic data and provide input into toxicokinetic study designs, proposals, reports, and publications.

Requires a Ph.D. in analytical chemistry, bioanalytical chemistry, or medicinal chemistry, plus a minimum of 3 years relevant experience. Experience required in organic trace analysis in biological matrices using gas chromatography and high performance liquid chromatography in combination with mass spectrometry, tandem mass spectrometry, and related techniques. Knowledge of mammalian metabolism of organic compounds is also desired. Qualified candidates should send their resume, referencing ad #10-2082-024-PB/HLS to: Battelle, Pacific Northwest Laboratories, P.O. Box 999, MSIN: K5-21, Richland, WA 99352. Or E-mail to: pnnl_employ@pnl.gov or FAX to: (509) 376-9099.

PNNL is an Affirmative Action/Equal Opportunity Employer and supports diversity in the workplace. Minorities, Females, the Disabled and Vietnam-era Veterans are encouraged to apply.

National Institutes of Health / National Center for Research Resources Veterinary Resources Program

SUPervisory Geneticist (Animal)

The National Center for Research Resources (NCRR) at the National Institutes of Health is currently recruiting for the position of Supervisory Geneticist (Animal), GS-440-14 with a salary range $80,925 to $79,200 per year.

The NIH Animal Genetic Resource (NIHAGR) is seeking an individual to serve as Chief of the Resource. NIHAGR is part of the Veterinary Resources Program, National Center for Research Resources and is located on the Bethesda, MD campus of the National Institutes of Health. NIHAGR is a unique international resource of genetically and microbiologically defined laboratory rodents and rabbits housed in conventional, barrier, and gnotobiotic facilities. The Resource includes research and service programs in embryo cryopreservation, animal genetics, reproductive physiology, and other areas related to animal model development and usage. The successful candidate will have a strong background in organism genetics and experience in planning, directing, and evaluating the research and program efforts of the Resource.

Applicants must have a degree in genetics, or one of the basic biological sciences that included at least 9 semester hours in genetics. In addition, applicants must have one year of specialized experience at the level of difficulty and responsibility comparable to the next lower grade in the Federal Service. Applications may apply with a resume, Optional Application for Federal Employment (OF-612). Application for Federal Employment (SF-171) or any other written format you choose. This position is included in the Federal Equal Opportunity Recruitment Program (FEORP) and is therefore targetted for EEOC recruitment efforts. Consideration is limited to citizens of the United States. Applications must be postmarked by June 19, 1995.

Further information and qualification requirements can be obtained by contacting:

Ms. Rosemary Carter
National Center for Research Resources
Building 31, Room 3B-38
9000 Rockville Pike
Bethesda, MD 20892
Telephone: 301-496-5621; Fax: 301-402-2110

NIH is an Equal Opportunity Employer
RESEARCH
The Henry M. Jackson Foundation for the Advancement of Military Medicine is seeking an individual to perform research with a focus on dopaminergic function in the mammalian cerebral cortex. Duties include planning and execution of electrophysiological and anatomical experiments and presentation of findings in scientific journals and at scientific meetings. Must possess a Ph.D. or M.D. in related area and three years of laboratory experience. Interested individuals should submit a résumé and cover letter to: Human Resources Department, The Henry M. Jackson Foundation for the Advancement of Military Medicine, Attn: PL-2950060, 1401 Rockville Pike, Suite 600, Rockville, MD 20852, Affirmative Action/EQUAL Opportunity Employer.

RESEARCH POSITION
CELL MEMBRANE BIOPHYSICS
The B. Rappaport Faculty of Medicine Technion—Israel Institute of Technology

Applications are invited for the above position. Please submit curriculum vitae, list of publications, a summary of research interests and goals, and names and addresses of three professional references to: Prof. Y. Palti, Department of Physiology and Biophysics, B. Rappaport Faculty of Medicine, Technion, P.O. Box 9649, Haifa 31096, Israel. FAX: 972-4-535185.

STUDY DIRECTOR
In Vitro Viral Testing Lab

Microbiological Associates (MA) is a rapidly growing international provider of biological and toxicological safety testing services to the pharmaceutical, personal care and biotechnology industries. We seek a qualified individual with a Ph.D. in virology, two to four years of experience SINCE post with in vitro virus testing and a minimum of two years of supervisory experience. GLP and/or cGMP experience is desirable. Experience with biosafety testing (FDA "Points To Consider") highly desirable. We seek enthusiastic team players and offer an excellent compensation package including profit sharing and a matching 401(k) program. Forward a résumé with salary history to the Human Resources Department: Microbiological Associates, 9900 Blackwell Road, Rockville, MD 20850. FAX: 301-738-1036. Equal Opportunity Employer/Minority/Female/Disabled/Veteran.

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