**ASSISTANT PROFESSOR—BIOCHEMISTRY JOHN HOPKINS UNIVERSITY**

The Department of Biochemistry invites applications for a tenure-track faculty position at the Assistant Professor level. Applicants should have general research interests and accomplishments, the ability to do a vigorous basic research program, and a commitment to graduate and postdoctoral training. Areas of special interest include enzyme mechanisms, protein structure and function, membrane biochemistry, molecular nutrition, and extra- and intracellular signal transduction. Successful applicants will be expected to submit an application for renewal by November 15, 1993. Curriculum vitae, reprints of key publications, and a statement of future research plans (3 to pages), as well as arrange for three letters of recommendation, should be sent to: Dr. H. E. Pilch, Chair, Biochemistry, Department of Biochemistry, The Johns Hopkins University, School of Hygiene and Public Health, 615 North Wolfe Street, Baltimore, MD 21205. Johns Hopkins University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

**ASSOCIATE/ASSOCIATE PROFESSOR—NUTRITION AND EXERCISE RESEARCH PROGRAM, Pennington Biomedical Research Center**

Seeks research scientist to direct program in Nutrition and Physical Fitness. State-of-the-art facilities and generous equipment allow the new position to achieve its mission. Successful applicants will be expected to establish an independent research program, to develop an NIH-funded grant or other extramural funding, to participate in graduate and medical education, and to be a member of a well-established multidisciplinary graduate program. Applicants must have a Ph.D. or equivalent experience in appropriate fields, and a statement of teaching interests is required. Applications should be submitted by November 15, 1993. Pennington Biomedical Research Center is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR**

Biochemistry, Cell and Molecular Biology

Dartmouth Medical School

The Department of Biochemistry at Dartmouth Medical School, with Dr. William T. Wickner as Chair, is recruiting a tenure-track Assistant Professor position. The successful candidate will be expected to establish an independent research program, to participate in graduate and medical education, and to be a member of a well-established multidisciplinary graduate program. Candidates should have a Ph.D. or M.D. degree with relevant postdoctoral training. Please send curriculum vitae and a statement of research interests and goals to: M.R. Pilch, Chair, Department of Biochemistry, Dartmouth Medical School, 7700 Vail Boulevard, Hanover, NH 03755-3844, Fax: 603-650-1128. Review of applications will begin January 15, 1993. Dartmouth Medical School is an Equal Opportunity/Affirmative Action Employer.

**CELL BIOLOGISTS**

The Division of Biological Sciences at the University of Missouri—Columbia invites applications for two tenure-track faculty positions to be filled at the Assistant Professor level with individuals using molecular methods to investigate basic problems in cell biology, including but not limited to protein trafficking and secretion, neurotransmission, crosstalk between cells, and cell cycle control. Individuals using yeast as an experimental organism and those studying problems of cell biology (vertebrate or invertebrate) are of particular interest to complement existing programs, although other areas will be considered.

**FACULTY POSITION IN IMMUNOLOGY**

The Division of Basic Medical Sciences of Mercer University School of Medicine requests applications for a tenure-track, ASSISTANT PROFESSORSHIP in immunology. The successful candidate will contribute to the microbiology/immunology in an interdisciplinary, problem-based medical education program in which small-group tutorials replace lectures. It is expected that the appointee will establish an externally funded research program in this or her area of expertise. Applicants should have a Ph.D. or M.D. degree in microbiology/immunology or a related field and postdoctoral training in contemporary immunology. Applications should include curriculum vitae, a statement of research interests and aims, and a statement of both teaching and research interests. Applications will be accepted until the position is filled. Applicant should send three letters of recommendation to: Dr. R. J. Simeon, Division of Basic Medical Sciences, Mercer University School of Medicine, Macon, GA 31207. Equal Opportunity/Affirmative Action Employer.
PhD Scientists
Molecular Biology

Pfizer, a Fortune 100 company, one of the largest pharmaceutical companies in the world and a multi-billion dollar industry leader, can offer you a world of challenge, opportunity and achievement where you can make a significant contribution to the research and development of exciting new products to be introduced in the coming decade...and the new century. Pfizer’s Central Research Laboratories in Groton, Connecticut are the company’s primary U.S. research facilities committed to creating a healthier world population. To accomplish that goal, we are actively recruiting the following positions in laboratory research towards the discovery of new human medicinal therapeutics.

As part of Pfizer’s continuing expansion of our Molecular Genetics and Protein Chemistry Department, there are openings for research molecular biologists in a number of areas. These positions require a PhD and two or more years of postdoctoral experience, and a strong publication record. Expertise in a listed disease area is desirable but not required. We are looking for scientists with a strong background in molecular biology and a desire to apply that knowledge toward solving problems of human disease.

Cardiovascular
Our cardiovascular group is pursuing the role of growth factors and proto-oncogenes in cardiac hypertrophy and congestive heart failure. We are seeking candidates who could contribute to these areas or other relevant aspects of cardiac development or dysfunction.

Gene Expression
Candidates should have a broad background in molecular techniques such as cDNA synthesis, library construction and screening, PCR, protein expression, protein purification, and cell culture.

Neurobiology
We are seeking candidates with experience in molecular biology of neuroreceptors and ion channels. Candidates should have experience in gene isolation and expression techniques, cDNA cloning, quantitative RNA analysis, PCR, and expression analysis in mammalian cells.

Osteoporosis
We are seeking candidates with experience in bone biology or steroid hormone action. Experience with other hormonal effectors of bone would also be useful.

Peptide Chemist
Responsibilities include synthesis and characterization of peptides and peptide analogs using manual and automated solid phase BOC and FMOC chemistries. The successful candidate will have a PhD in Chemistry or related field, and 2-3 years of postdoctoral experience. Experience in the use of peptide libraries, protein chemistry and protein-peptide interactions is preferred.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume, description of research experience and the names of three references, indicating position desired, to: Mr. Kym Goddu, Personnel Associate, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. We are an equal opportunity employer.
PHYSIOLOGIST—Applications are invited for a tenure-track position in physiology at the ASSISTANT PROFESSOR level. The Department of Biology at the University of Rochester invites applications for a tenure-track position. Applicants must have a Ph.D. and demonstrate an ability to conduct independent research. Preference will be given to applicants whose expertise supports ongoing ecological research in the department. Applicants must have a Ph.D. and a demonstrated record of research, and be able to participate in the.rdf.  Required: Broad biological background desirable. Applicants must demonstrate excellence in undergraduate teaching, research, and will be expected to develop an active research program involving graduate students (M.A. and Ph.D.), and to excel in undergraduate teaching. The curriculum vitae and present teaching interests, and experience will be required. The department is committed to diversity. Women and members of minorities are encouraged. Affirmative Action/ Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSORSHIPS

The Department of Biochemistry and Molecular Biology at the University of North Carolina invites applications to fill two research assistant professor positions. The successful applicants will be expected to conduct independent research and have excellent written and oral communication skills. Preference will be given to candidates with a strong background in the molecular biology of human pathogens. Women and members of minorities are encouraged. Affirmative Action/Equal Opportunity Employer.

PROGRAM IN HUMAN GENETICS

MEHARRY MEDICAL COLLEGE invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. Applicants must hold a Ph.D. and/or M.D. degree and have the ability to conduct independent research with mammalian molecular genetic approaches. The successful candidate will be expected to conduct research on human genetic diseases and develop a strong independent research program in mammalian molecular genetics. Women and members of minorities are encouraged. Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN GENETICS.

DUKE UNIVERSITY MEDICAL CENTER.

Applications are invited for a tenure-track position in the Section of Genetics at Duke University Medical Center. Although we anticipate filling this position at the ASSISTANT PROFESSOR level, we will consider individuals for any level appointment. We are particularly interested in those who have a Ph.D. and/or M.D. degree and have the ability to conduct independent research with mammalian molecular genetic approaches. The successful candidate will be expected to conduct research on human genetic diseases and develop a strong independent research program in mammalian molecular genetics. Women and members of minorities are encouraged. Affirmative Action/Equal Opportunity Employer.

MOLECULAR IMMUNOLOGIST: An opportunity at the RUTGERS UNIVERSITY is available for a tenure-track appointment at the ASSISTANT PROFESSOR level. Applications are invited for a tenure-track appointment at the ASSISTANT PROFESSOR level. Applicants must have a Ph.D. and/or M.D. degree and demonstrate excellence in teaching, research, and have excellent written and oral communication skills. Preference will be given to candidates with research programs involving human immunology and infectious diseases. Women and members of minorities are encouraged. Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BIOLOGY.

UNIVERSITY OF ROCHESTER.

ASSISTANT PROFESSOR in MOLECULAR BIOLOGY

The Department of Biology at the University of Rochester invites applications for a tenure-track position in Molecular Biology available September 1994. Applicants should have at least two years of postdoctoral training. We are seeking a person who can mount a strong independent research program in an area of molecular biology. The University of Rochester is a private institution with about 4000 undergraduate and about 4000 graduate students. The Department of Biology has a faculty of 21 with research and teaching programs in molecular, cell, and developmental biology as well as molecular evolution and ecology. We have an excellent environment with extensive interactions both within the department and with the Medical School located adjacent to the College of Arts and Science. Screening of applications will begin immediately and continue until the position is filled. The University of Rochester is an Equal Opportunity/Affirmative Action Employer.

DEVELOPMENTAL BIOLOGIST

Vanderbilt University Medical Center

A tenure-track position is available in the Department of Cell Biology for a developmental biologist at the ASSISTANT PROFESSOR level. Preference will be given to someone working with an interesting system amenable to genetic and molecular analysis, rather than with a particular organism. The Department already has strong research programs in mouse, Xenopus and C. elegans development. Applications are encouraged from women and minorities.

ENVIRONMENTAL PLANT PHYSIOLOGIST

The Department of Botany, University of Georgia, invites applications and nominations for a tenure-track ASSISTANT PROFESSOR position to be filled September 1994. Applicants should have a Ph.D. degree in environmental physiology, systems biology, molecular biology or a closely related discipline. The position will be in the Faculty of Biochemistry and Molecular Biology, and the successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The position will be supported by a group of 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology. The successful applicant will join a group of approximately 80 faculty members whose research interests span cell, molecular, developmental, physiological, and ecological biology.
EXCEPTIONAL CAREERS IN OUR EXPANDING VIROLOGY DEPARTMENT
Wallingford, Connecticut

GROUP LEADER
Direct/coordinate the day-to-day efforts of Research Scientists in the area of Herpes or Hepatitis B viruses. This will include basic research studies to identify and evaluate targets for therapeutic intervention of human viruses and the design of high throughput screens for discovery of anti-viral agents. Requirements include a Ph.D. in Molecular Biology, Virology or Biochemistry and 8-10 years of post-doctoral experience.
Please reply to: PRI-JW-407A.

RESEARCH INVESTIGATORS
Candidates should have a Ph.D. in Molecular Biology, Biochemistry or Virology and previous postdoctoral experience. Successful candidates are expected to conduct independent research studies to define unique viral targets for antiviral intervention, and collaborate with other research groups in the design and development of novel antiviral agents.
Please reply to: PRI-JW-408A.

ASSOCIATE RESEARCH SCIENTISTS
Candidates should have BS/MS degree and previous experience working in a research laboratory. Prior training in the area of Molecular Biology, Biochemistry or Virology is highly desirable.
Please reply to: PRI-JW-405A.

HIV VIROLOGISTS
Requirements include a Ph.D./MS in Biology or related field and a minimum of 1 year of cell culture experience with HIV. Candidates should be able to work in the Biosafety Containment Laboratory. Experience in the isolation, preparation and characterization of HIV from cell culture and clinical samples, and hands-on familiarity with anti-HIV research are necessary.
Please reply to: PRI-JW-402A.

HBV VIROLOGISTS
Requirements include a Ph.D./MS in Biology or related field, plus a minimum of 1 year research experience working with Hepatitis B virus. Candidates should have experience handling virus-infected cells coupled with Molecular Biology or Biochemistry expertise.
Please reply to: PRI-JW-403A.

Bristol-Myers Squibb provides competitive salaries, participation in our comprehensive benefits program and continued opportunities for professional development.

Please forward your curriculum vitae (indicating dept. number) to: Human Resource Department
Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543-4000.

Equal Opportunity Employer, M/F/D/V.
University of California, San Francisco
Department of Biochemistry and Biophysics

Faculty Positions

The Department of Biochemistry and Biophysics seeks candidates for two tenure track positions at the Assistant Professor level. Exceptional candidates at a higher level will be considered for one of these positions. Individuals working in virtually any area of modern biology will be considered, including cell biology, development, biological structure, genetics, and biochemistry. The first appointment is envisioned to commence in the summer of 1994, and the second in the spring of 1995.

Candidates are expected to hold a Ph.D. and/or M.D. degree, or equivalent, and to have demonstrated achievement in their fields. The two successful candidates will have outstanding potential for research and teaching, and will be expected to establish a dynamic research program. The incumbents will also be expected to participate actively in teaching in both graduate and professional school curricula. It is anticipated that the new faculty will join the Program in Biological Sciences, which serves as a framework for graduate training and collegial interaction.

Applicants should submit a curriculum vitae, summary of research accomplishments, description of future research plans and interests, and copies of major publications, to: Chair, Faculty Search Committee, Department of Biochemistry and Biophysics, University of California, San Francisco, CA 94143-0448. The applicant should also arrange to have three to five letters of recommendation forwarded to the chair of the search committee.

Applications received after January 1, 1994 may not be considered for the first of these two positions. Our Department is eager to diversify its faculty and thus we especially encourage women and minorities to apply. UCSF is an Equal Opportunity/Affirmative Action Employer.

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At Lederle-Praxis Biologicals, a division of American Cyanamid Company, we're pioneering the design, manufacture and marketing of vaccines so sophisticated, they're changing lives—right now. Here, you'll help improve the quality of a lot of lives. Including your own. Our research facility, located in a suburb of Rochester, NY, is within easy reach of some of New York State's most attractive cultural, educational and recreational resources.

RESEARCH SCIENTIST
Virology

You'll work as part of a team engaged in viral vaccine research and development. To qualify, you should have a Ph.D. or equivalent in Microbiology or a related field with a minimum of 2-5 years of experience in baculovirus or mammalian virus growth in insect or mammalian cell culture. Broad experience with the molecular and immunologic techniques for evaluation of virus protein expression and particle formation is strongly preferred. Previous work in monoclonal, polypeptide, or microcarrier (Celligen) culture of mammalian or insect cells would be a plus.

At Lederle-Praxis, you'll enjoy a professional atmosphere and the kind of salary and benefits package you'd expect from an industry leader. Please send your resume to: Human Resources Department, Lederle-Praxis Biologicals, 211 Bailey Rd., West Henrietta, NY 14586-9728. An Equal Opportunity Employer.

Senior Research Scientist

The IMMUNE RESPONSE CORPORATION, a rapidly growing biotechnology company based in Carlsbad, California is currently seeking a Ph.D. level scientist to work on T-cell immunoregulation in autoimmune disease. The company's T-cell receptor peptide-based treatment of Rheumatoid Arthritis is currently in clinical trials. The position available will involve both the basic and clinical research associated with the development of therapeutic products for autoimmune disease.

THE IMMUNE RESPONSE CORPORATION offers a competitive compensation and benefits package and the opportunity to make a significant contribution in a stimulating, state-of-the-art, work environment. Interested candidates should mail or fax their C.V. to:

Human Resources
THE IMMUNE RESPONSE CORPORATION
5935 Darwin Court
Carlsbad, Ca. 92008
(619) 431-8636

Equal Opportunity Employer
HEALTH SCIENTIST ADMINISTRATOR
(BIOMEDICAL) GS-601-15

The National Institute on Aging, National Institutes of Health, Public Health Service, is recruiting for a health scientist administrator. ($66,609 to $86,589) to join the Neuroscience and Neuropsychology of Aging Program, an extramural research program. The incumbent will serve as the Chief of the Dementias of Aging Program, and will be responsible for the development and administration of a research grants program in the area of Alzheimer's disease and related disorders of aging. The programs responsibilities include: etiology, diagnosis, treatment, behavioral management, and epidemiology of Alzheimer's disease. A doctoral degree or equivalent and research experience related to neuroscience are required. Preference will be given to individuals with research experience in neurobiology of aging, neurodegenerative diseases of aging, or cognitive neuroscience. A familiarity with neurological disorders of aging, and psychosocial problems of older people is desirable. Position is located in Bethesda, Maryland. U.S. citizenship is required. Deadline for applications is December 31, 1993.

Send an Application for Federal Employment (SF-171) and C.V. to:
Ms. Christine Hartz
NIA Personnel Office
Building 31, Room 2C02
9000 Rockville Pike
Bethesda, MD 20892
Telephone Number: 301-496-5347

NIH is an Equal Opportunity Employer.

ASST./ASSOC. PROFESSOR
PHARMACEUTICAL SCIENCES
ST. JOHN'S UNIVERSITY
NEW YORK

The Department of Pharmaceutical Sciences, College of Pharmacy & Allied Health Professions, at St. John's University, seeks to fill a tenure track position at the assistant or associate professor level. Applicants must possess a Ph.D. degree. Responsibilities include undergraduate and graduate courses, as well as an active research program. Preference will be given to candidates with a background in Pharmacology / Toxicology or Biochemistry. The Department possesses excellent facilities and all the necessary support services for research. Modern instrumentation, an AAALAC accredited animal facility and tissue culture laboratories are available. The college provides a supportive environment for scientists beginning their career in basic research. Application letters with curriculum vitae, statement of research interests and names of three references should be sent to:

Dr. S. William Zito, Professor and Chair
Department of Pharmaceutical Sciences
College of Pharmacy & Allied Health Professions
St. John's University
8000 Utopia Parkway
Jamaica, NY 11439

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

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SmithKline Beecham Animal Health is the largest animal healthcare company in the United States and the second largest globally. With research facilities in the U.S., the U.K., and Belgium, SB Animal Health invites you to join the newest department within our Biological R&D Group—Molecular Biology R&D. You will see why SB Animal Health is fast becoming the premier animal health company in the world.

ASSISTANT PROJECT MANAGER
Molecular Biology—Oversee projects involving prokaryote gene expression systems. Develop & evaluate new research opportunities and technologies; isolate genes encoding protective antigens; and produce, evaluate, and optimize expression of heterologous genes. A M.S. in Molecular Biology with 5 years of experience or a Ph.D. with 3 years of experience are required, including expression & optimization of heterologous genes in prokaryote systems. Experience with animal cells, insect cells and/or yeast expression systems preferred.

ASSISTANT PROJECT MANAGER
Immortalization—Oversee projects involving immortalization of mammalian and non-mammalian cell lines, developing and evaluating new research opportunities and technologies for immortalization, cell culturing and antigen expression in immortalized cells. An M.S. in Molecular or Cell Biology with 5 years of experience or a Ph.D. and 3 years of experience are required, including cell immortalization and cell culturing for commercial use.

SENIOR SCIENTIST
Viral Vectors—Design and conduct experiments for the development of viral vectors, generate recombinant reagents and viruses, isolate genes encoding protective antigens, produce antigens in pox/herpes vector systems and adenovirus systems, develop novel vectors. A B.S. in Molecular Virology or Microbiology with 5 years of experience or an M.S. with 4 years of experience are required, including DNA isolation, plaque purification, cell infection/transfection and pox virus vector construction.

RESEARCH SCIENTIST
Molecular Biology—Design & conduct experiments to develop a variety of immortalized cell lines, pinpoint and introduce new cell characterization and immortalization techniques. A B.S. in Microbiology with 4 years of experience or an M.S. and 2 years of experience are required, including tissue culture, transfection techniques and characterization of transfected cells.

RESEARCH SCIENTIST
Molecular Biology—Perform experiments to develop viral vectors expressing heterologous genes. Clone genes and components of relevant antigens and other molecules, e.g. cytokines and host expressions. A B.S. in Microbiology with 4 years of experience or an M.S. and 2 years of experience are required, including ELISA & virus neutralization assay, virus culturing, plaque purification and cell culture. Experience with pox viruses, herpesviruses, adenoviruses or RINAviruses is preferred.

SmithKline Beecham Animal Health offers excellent compensation—including benefits and generous relocation assistance—and the world presence to bring your goals within reach. Send your C.V. with a letter indicating your position of interest in confidence by October 29 to: Human Resources Mgr.—R&D, SmithKline Beecham Animal Health, B01 W. Cornhusker Hwy., Lincoln, NE 68521. Dedicated to workforce diversity, we are an Affirmative Action/EQUAL Opportunity Employer.
POSITIONS OPEN

MOL ecULAR B IOLOGY

TENURE-TRACK FACULTY POSITION

Notre-Dame Hospital, a major teaching hospital affiliated to the University of Montreal, invites applications for one position at the level of ASSISTANT OR ASSOCIATE PROFESSOR in the Department of Medicine, Division of Cardiology, available April 1, 1994. The position will involve both research and teaching. Successful candidates will be expected to develop independent, competitive research programs in molecular approaches to cardiac biology and to teach at the graduate and postdoctoral levels. The candidate should have research interests in the field of gene therapy.

The successful candidate will be eligible for competitive salary and start-up funds, new laboratory and office space, well-equipped facilities, along with opportunities to interact with other scientists from the division of Cardiology and the Research Center of Notre-Dame Hospital.

Send curriculum vitae with a list of publications, statement of research interests, and names of three references including addresses and telephone numbers to: Dr. Richard Schultz, Chair, Department of Molecular and Cellular Biochemistry, Loyola University Chicago, Stritch School of Medicine, 2160 South First Avenue, Maywood, IL 60153. Loyola University is an Equal Opportunity Employer.

Penn State Biology Department—ASSISTANT PROFESSORS. FALL 1994. The Department of Biology of the Pennsylvania State University and Commonwealth System, invites applications for two tenure-track positions available August 1994 at the Worthington Scranton Campus. Positions require teaching microbiology, human anatomy and physiology, environmental science and general biology. Candidates must have a Ph.D. degree, excellent teaching and scholarly activity, including research and publication. Salary and rank commensurate with qualifications. Application deadline: November 30, 1993, or until suitable candidates are identified. Send curriculum vitae, statement of teaching interests, and names of three references to: Search Committee, Box W, 208 Muller Laboratory, University Park, PA 16802. An Affirmative Action/Employer. Women and minorities encouraged to apply.

COLUMBIA UNIVERSITY

The Department of Pharmacology invites applications for the position of ASSISTANT PROFESSOR (Tenure-track). Successful candidates are expected to establish an independent research program in molecular biology and medical chemistry. Requirements include a Ph.D. and/or M.D. degree and a minimum of two years of postdoctoral research. Candidates should submit curriculum vitae, statements of research interests and future plans, and the names of three referees to: Dr. Brian F. Hoffman, Department of Pharmacology, Columbia University College of Physicians and Surgeons, West 168th Street, New York, NY 10032. Columbia University is an Equal Opportunity/Affirmative Action Employer.

RICE UNIVERSITY

Department of Biochemistry & Cell Biology

FACULTY POSITION

Applications are invited for a tenure-track faculty position in the Department of Biochemistry & Cell Biology. The successful candidate will be expected to develop a productive, independent research program. Candidates should have a Ph.D. degree and experience in a research area within biochemistry, molecular biology, or cell biology. Responsibilities include teaching at the graduate level and participation in departmental and university committees. Applicants should send curriculum vitae, statement of research interests, and a list of three references to: Professor Stuart Schultz, Chair, Department of Biochemistry and Cell Biology, Rice University, Houston, TX 77251-1892.

Rice University is an Equal Opportunity/Affirmative Action Employer; women and minority candidates are encouraged to apply.

BIOCHEMIST Search Reopened. The University of Nevada, Las Vegas (UNLV), seeking to fill a tenure-track position at the ASSISTANT (preferable) or ASSOCIATE level. Ph.D. in Biochemistry or a closely related field, a strong undergraduate chemistry background, and postdoctoral experience is required. Duties include participation in biochemistry courses and assisting in other offerings. Establishment of an active research program (including undergraduate and graduate student accompaniment) is expected. The successful candidate should have a Ph.D. degree in Biochemistry. Send application letter, resume, undergraduate and graduate transcripts, statement of teaching and research goals and three letters of reference to: Dr. S. C. Carbon, Department of Chemistry, University of Nevada, Las Vegas, 4505 Maryland Parkway, Box 454008, Las Vegas, NV 89154-4008. All complete application materials should be received by November 1, 1993. Women and minorities are urged to apply. UNLV employs only U.S. citizens and aliens authorized to work in the United States. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT OR ASSOCIATE PROFESSOR Full-time academic appointment for basic investigator (M.D. and/or Ph.D.) in the Renal Division, Department of Medicine, Albert Einstein College of Medicine (AECOM). Applicants are encouraged to develop a molecular approach to renal biology or disease, and be competitive for extramural funding. AECOM offers a rich scientific environment and is located in a quiet neighborhood adjacent to the beaches of the New York metropolitan area. Names of three references should be sent to: Dr. Victor Schuster, Ullman 617; Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 1300 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

ASSISTANT PROFESSORSHIP IN MOLECULAR CELL BIOLOGY

Applications are sought for a tenure-track position jointly in the Center for Cancer Research and the Department of Biology at the Massachusetts Institute of Technology. Candidates should have significant research accomplishments in the areas of molecular and/or cellular mechanisms of growth control, cell differentiation or behavior. Suitable areas of research include signal transduction, signaling, signal transduction, cell cycle regulation, cell adhesion and migration. Successful candidates will be expected to establish and maintain an active research program and to co-lead graduate and postgraduate students. Applicants should send curriculum vitae and a summary of proposed research and arrange to have letters sent by their former mentors describing their accomplishments. Applications and three letters of reference should be sent to: Professor Timothy J. Schultz, Chair, Biology Search Committee, Massachusetts Institute of Technology, Cambridge, MA 02139.

ANNOUNCEMENT OF A BEHAVIORAL NEUROSCIENCE POSITION AT MICHIGAN STATE UNIVERSITY (MSU)

BEHAVIORAL NEUROSCIENTIST: The Department of Psychology at Michigan State University seeks applications for an anticipated (pending approval of the Provost Office) tenure-track position in Behavioral Neuroscience. MSU invites applications for a tenured ASSOCIATE PROFESSOR, effective August 16, 1994. We seek an individual who has demonstrated the potential to be a highly productive scholar and effective teacher in our undergraduate and graduate programs. We are especially interested in candidates who complement our strengths in behavioral and neural-cognitive and biological rhythms. Investigations with pharmacology and electrophysiological techniques in working in areas related to plasticity in the adult or developing nervous system are especially encouraged to apply. Send curriculum vitae, representation reprints, and three letters of reference to: Professor Cheryl Slaski, Department of Psychology, Psychology Research Building, Michigan State University, East Lansing, MI 48824-1117. Application deadline January 1, 1994. MSU is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR, MOLECULAR BIOPHYSICS

WESLEY AN U NIVERSITY

The Department of Molecular Biology and Biochemistry invites applications for a tenure-track position in molecular biology at the Assistant Professor level. We are seeking candidates with expertise in X-ray crystallography, structural analysis (magnesium receptor or biological thermodynamics). Depending on qualifications, candidates with expertise in X-ray crystallography, structural analysis, and expect teaching at both the graduate and undergraduate levels is expected. Please send curriculum vitae, description of research plans and letters of recommendation to: Molecular Biophysics Search Committee, Office of Dr. Irina M. Russu, Department of Molecular Biology and Biochemistry, Wesleyan University, Middletown, CT 06459-0175. Wesleyan University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from minority candidates and women.

ASSISTANT/ASSOCIATE PROFESSOR OF KINESIOLOGY—PHYSICAL THERAPY (tenure-track). Duties include independent research and teaching responsibilities. Preference for Wisconsin residents with physical therapy licensure required. Letter of application, curriculum vitae, copies of 3 published articles, names and addresses of 3 references to: Dr. Barbara J. Morgan, University of Wisconsin, 1087 MSC, 1300 University Avenue, Madison, WI 53706 by December 15, 1993. Information about confidentiality of applicant names available on request. Applications encouraged from women, minorities, persons with disabilities.

RESEARCH ASSISTANT PROFESSOR: The University of South Florida is currently seeking an experienced Research Assistant Professor to work in the Department of Radiology, Division of Radiation Oncology. Candidates must have a Doctorate degree or equivalent training and experience. The candidate will be expected to function as a member of a research team, who is dedicated to the development of collaboration with other members of the Radiation Oncology, a Research Program Laboratory, ICRF. Experience in basic and translational components. Compensation will be based on qualifications and experience. This position is non-tenure-track (may become tenure-track in the future). Closing date January 4, 1993.

All faculty searches are affirmative action/equal opportunity employers and are available to women, minorities, and persons with disabilities. We encourage candidates who address letters of inquiry with curriculum vitae and names of three references to: Professor J. Gross, Great Lakes Medical Group, Director of Radiation Oncology, H. Lee Moffitt Cancer Center, 12902 Magnolia Drive, Tampa, FL 33612; Telephone: 813-972-3795. The University of South Florida is an Equal Opportunity/Equal Access/Affirmative Action Employer.
Postdoctoral Research Fellowships for Physicians

1994 Competition

25 Fellowships will be awarded to physicians by the Howard Hughes Medical Institute for three years of training in fundamental biomedical research. Awards, based on an international competition, focus on research directed to understanding basic biological processes and disease mechanisms. Fellowships may be held at any academic or not-for-profit research institution, including but not limited to Hughes laboratories.

Fellowship Terms

- Three years of support
- Full-time fundamental research
- $35,000–$55,000 annual stipend
- $15,000 annual research allowance
- $12,000 annual institutional allowance

Eligibility

- M.D., M.D./Ph.D. M.B.B.S., or D.O., with the first medical degree awarded no earlier than 1984
- At the start of the fellowship
  - at least two years of postgraduate clinical training completed
  - no more than two years of postdoctoral research training completed
- Applicants (and fellows) may not have faculty appointments
- Fellows may not be enrolled in graduate degree programs
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule

- Application deadline: January 5, 1994
- Awards announced: July 1994
- Fellowships start: September 1, 1994–September 1, 1995

For 1994 Program Announcements and Applications

Howard Hughes Medical Institute
Office of Grants and Special Programs/POST
Department CC94
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789, United States of America
Telephone (301)215-8889

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

TENURE-TRACK FACULTY POSITIONS

The Department of Biochemistry and Molecular Biology at the Medical University of South Carolina is seeking qualified applicants for ASSOCIATE PROFESSOR level to fill three state-supported positions. Research areas of particular interest are: (1) Nucleic acid modifications, (2) mechanisms of cellular signaling transduction, and (3) biochemistry and molecular biology of cell growth and differentiation. Applicants must hold doctoral degrees and have at least two years of postdoctoral experience. Successful candidates will be expected to develop independent, extramurally supported research programs, and participate in the teaching activities of the department. These positions will remain open until the positions are filled. Send curriculum vitae, statement of research plans, and the names of three references to: Dr. Michael Perlman, Department of Biochemistry and Molecular Biology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425.

The Medical University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIP IN IMMUNOLOGY

Applicants are sought for a tenure-track position jointly in the Center for Cancer Research and the Department of Pharmacology at the Massachusetts Institute of Technology. Candidates should have significant cancer research accomplishments in immunology. While all areas of immunology will be considered, research in the area of tumor immunology are particularly encouraged. Successful candidates will be expected to establish and maintain a research program and to participate in teaching both undergraduate and graduate students. Applications should send curriculum vitae and a summary of proposed research to have letters sent by three scientists who can evaluate the candidate's accomplishments and future potential for both research and teaching. MIT is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply. Applications and letters should be sent to: CCR Immunology Search Committee, Room E17-110, Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, MA 02139.

BOTANIST—A tenure-track ASSISTANT PROFESSORSHIP for a botanist is available beginning in August of 1994. Applicants should have a strong field orientation and be able to establish a successful research program with undergraduate and graduate students. In addition, should be able to teach courses in ecology, introductory biology and botany, and one course in vascular plant biology. An interest in teaching and appreciation for the liberal arts tradition in education are very desirable. The College, with an enrollment of 1100, has a highly selective student body for undergraduates and is located on a forested 10,000-acre campus in the Cumberland Plateau of Middle Tennessee. Screening of applicants will begin on November 15, 1993, but applications will be accepted until suitable candidates are found. Send letter of application, curriculum vitae, transcripts, and three letters of reference to: Dr. Henrietta Croom, Department of Biology, The University of the South, Sewanee, TN 37383–1000, Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSOR—MOLECULAR IMMUNOLOGIST. A tenure-track faculty position in the Department of Pharmacology and Toxicology at the University of Kentucky is available to an individual with training and postdoctoral experience in the areas of Immunology, Virology, or Immunopharmacology is available starting in August 1994. Applicants should have a PhD with at least one year of postdoctoral experience and the ability to work as a team member. Send letter of application, curriculum vitae, and names of three references to: Dr. K. Miguel, Chairman Pharmacology and Toxicology University of Kentucky Lawrence, KY 40646.

Applications must be received on or before November 14, 1993. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

POSITIONS OPEN

CELL BIOLOGY

The Department of Biological Sciences anticipates making two full-time tenure-track faculty appointments in the area of Molecular Biology beginning Fall 1994. Qualifications subject to budgetary approval, to continue expansion of the Department, which has hired six faculty in molecular or cellular biology over the past three years. These appointments are to be made at the ASSISTANT PROFESSOR level, but under exceptional circumstances, experienced candidates with outstanding records will be considered for an assistant or associate rank. Applicants studying the cell cycle, signal transduction, or using genetic systems to study basic cellular problems are encouraged to apply. A Ph.D. and extensive postdoctoral experience will be expected to establish an extramurally funded research program, to participate in undergraduate education. In order to ensure full consideration, applications must be received by December 10, 1993. Applications should send curriculum vitae along with a summary of research interests and goals, and arrange to have at least three letters of reference sent to: Dr. Charles Walsh, Cell Biology Search Committee, Department of Biology, University of Kentucky, 624-4266. The University of Kentucky is an Equal Opportunity/Affirmative Action Employer. Women and minorities are especially encouraged to apply.

CLARK UNIVERSITY Molecular Geneticist Position

The Department of Biology seeks a tenure-track faculty member at a level commensurate with experience to begin in September 1994. We are seeking an individual with strengths in molecular genetics whose research complements existing programs including: (1) Regulatory genes in symbiotic fungi; (2) Genetic defects in mammalian cells; (3) RNA structure and RNA-protein interactions; and (4) Analysis of Listeria cell mechanisms. Strong preference will be given to those applying modern molecular genetic techniques to the study of cellular functions. Candidates are expected to have 2 or more years of postdoctoral experience and the potential to develop an active, independent research program. Applicants must have demonstrated excellence in teaching, evidence of leadership and a record of productive research. Creative and effective dissemination of research findings is encouraged. Women and minorities are especially encouraged to apply. Applications and letters should be sent to CCR Immunology Search Committee, Room E17-110, Center for Cancer Research, Massachusetts Institute of Technology, Cambridge, MA 02139. Women and minorities are encouraged to apply. Consideration will be given until the position is filled. Formal review will begin on December 1, 1993. Applications should include a resume, a description of career goals, research objectives and names of at least three references. Women and minorities are especially encouraged to apply. CLARK UNIVERSITY is an Equal opportunity/affirmative action employer.

ASSISTANT DIRECTOR FOR SAFETY TESTING

Laboratory Animals Section, the Humane Society of the United States. Doctoral degree in the Life Sciences required. Experience in safety testing preferred. Dedication to animal protection in general and to reform in the area of safety testing in particular. Good writing and speaking skills. Approximate start date, January 1994. Send resume, references to: Philip Mendosa, HSUS, 2100 L Street, N.W., Washington, DC 20037.

Goodwin Biotechnology Inc. has an immediate opening for a MANAGER, CELL CULTURE OP- ERATION. Cell Biology Manager is responsible for taking charge of a person with 3 to 5 years of manufacturing experience producing cGMP MAb in hollow fiber bioreactors. Responsibilities include process evaluation, and an entrepreneurial spirit. Preference will be given to applicants with hands-on experience in batch fed mammalian and bacterial cultures. The position has full responsibility for the department including static cell culture prep, HBPR process and gMP compliance and bioreactor process validation. Qualified candidates should FAX resumes to: GBI at (308) 887-6878 for prompt consideration and response.

AN IN-HOUSE EDITOR

with expertise in biology or chemistry, and interests in both, to help set up and produce a NEW INTERNAT- IONAL JOURNAL FOR BIOTECHNOLOGY (with an interface be- tween Chemistry and Biology, located in San Francisco. Requirements include a Ph.D. in an appropriate sub- ject, a sense of humor, and an ability to work under pressure and to deadlines. Previous editorial experience an advantage.

Apply with résumé and salary requirements to: Per- sonnel, Current Biology Ltd, 501 Irving Street, San Francisco, CA 94122.

DIRECTOR, REACTION FACILITY, REED COLLEGE

This position includes both teaching and administrative responsibilities, and research experience is desirable. Teaching responsibilities will include a radiochem- istry course and a reactor seminar course. The facility in- cludes a 0.2 MW operation reactor, a radiochemistry labora- tory, and a radiation counting room. Interested applicants should send curriculum vitae, a brief discussion of teaching interests and research goals, and the names and telephone numbers of three references to: Chair, Reactor Director Search Committee, Department of Chemistry, Reed College, Portland, OR 97202–8199. The position is open until filled, applications re- ceived by October 22, 1993, will be assured of full consid- eration. Reed College is an Affirmative Action/Equal Opportu- nity Employer.

The Public Health Laboratory of the State of Louisiana has two LABORATORY SCIENTIST MANAGER's positions available. One in New Orleans and one in Alexandria. These positions require a Baccalaureate de- gree with a minimum of 24 semester hours in a biological science, microbiology, chemistry, nuclear science, physical sciences or a combination followed by one year of full-time professional level experience in a laboratory facility at the supervisory level. A doctoral degree in qualifying fields may be substituted for the required experience. We would prefer candidates with Master's or Doctoral degrees. Applicants should forward curriculum vitae to: Central Laboratory, 325 Loyola Avenue, Room 179, New Orleans, LA 70112. Equal Opportu- nity Employer.

Current Biology Ltd seeks

with expertise in biology or chemistry, and interests in both, to help set up and produce a NEW INTERNAT- IONAL JOURNAL FOR BIOTECHNOLOGY (with an interface be- tween Chemistry and Biology, located in San Francisco. Requirements include a Ph.D. in an appropriate sub- ject, a sense of humor, and an ability to work under pressure and to deadlines. Previous editorial experience an advantage.

Apply with résumé and salary requirements to: Per- sonnel, Current Biology Ltd, 501 Irving Street, San Francisco, CA 94122.

BIOLICAL SCIENCES LABORATORY INSTRUCTOR THE UNIVERSITY OF CHICAGO

The Biological Sciences Collegiate Division at the University of Chicago wishes to recruit a laboratory instructor to work with faculty in the laboratory teaching of molecular and biological sciences to undergraduate students. Applicants should have a Ph.D., relevant teaching experience, and an interest in developing a teaching career in the biological sciences. Although the primary responsibility of this position is laboratory teaching, opportunities for classroom teaching are available. Initial appointment will be at the rank of LECTURER and will begin in the summer or autumn of 1994; salary will be commensurate with experience. Applicants should submit curriculum vitae, a statement of teaching experi- ence and interests, and three references to: Dr. Robert Perlman, Biological Sciences Collegiate Division, The University of Chicago, 924 East 57th Street, Chicago, IL 60637. Application deadline: 1 December 1993. The University of Chicago is an Affirma- tive Action/Equal Opportunity Employer.

FACULTY POSITION

A TENURE-TRACK FACULTY POSITION is available immediately for a MOLECULAR BIOLOGIST. The successful candidate is expected to develop a productive research program and to be involved in the training of graduate and undergraduate students. Teaching experience is desirable. The position is in the School of Optometry, which is on the Bloomington campus. There is an active group of molecular biologists, biochemists and vision scientists, with many associated core facilities. Candidates should send curricu- lum vitae, including a summary of their research by November 15, 1993, to: Dr. Sally Hegeman, School of Optometry, Indiana University, Bloomington, IN 47405.
BS Biology, Biochemistry or a related discipline

RESEARCH ASSOCIATE

The Upjohn Company is actively recruiting a Research Associate to participate in the development, automation and implementation of biological assays to detect novel pharmacological agents in chemical libraries and/or fermentation extracts.

Candidates should have a BS/MS in Biology, Biochemistry or a related discipline. A knowledge of the basic principles of biochemistry and cell biology is necessary. Experience in tissue culture, biochemical assays, data management and a knowledge of receptor-ligand binding assays are preferred.

The Upjohn Company provides a stimulating research environment and continued opportunities for career development. For confidential consideration, please send your resume to: THE UPJOHN COMPANY, Corporate Recruiting, Position #181, 7000 Portage Road, Kalamazoo, MI 49001. Equal Opportunity Employer, M/F/D/V.

ASSISTANT PROFESSOR - PLANT GENETICS, PENN STATE: (A higher rank can be considered for an appropriately qualified candidate.) A 12 month, tenure-track, 75% research/25% teaching position is available in the Department of Horticulture. The program goal should be to better understand and enhance germplasm resources through molecular genetics analyses and manipulation. The individual will be expected to develop a program of basic research to identify mechanisms of genetic control of important traits in plants. The research is expected to complement existing strategic thrusts involving market quality and utility of ornamental plants; root biology and other aspects of water and nutrient management in controlled environment production systems; and the biological efficiency of integrated crop management systems. The teaching responsibilities include two undergraduate courses (Plant Breeding and Horticultural Systematics), and contributions to the graduate program. The individual will have the opportunity to become part of an interdepartmental team of plant breeders, geneticists, and molecular biologists through the Intercollege Graduate Program in Genetics, the Biotechnology Institute, and courtesy appointments in other departments. The advising of graduate students, collaboration with other faculty members, development of program support, and relevance to the elements of the Pennsylvania Horticulture industry are important expectations. A Ph.D. in Plant Genetics or closely related plant science discipline with training or experience in molecular approaches and appreciation for contemporary plant breeding are required. Knowledge of horticultural systematics, germplasm resources and biodiversity is highly desirable. The salary and rank is competitive and commensurate with background and experience. An attractive benefits package is available. Applicants should submit a letter of application, resume, three letters of recommendation, transcripts, and the names and addresses of three professional references to: STEPHEN J. WALLNER, DEPT. OF HORTICULTURE, TYSON BUILDING, BOX GHI, THE PENNSYLVANIA STATE UNIVERSITY, UNIVERSITY PARK, PA 16802. (Phone: 814-865-2571; FAX: 814-863-6139). Applications will be accepted until January 1, 1994, or until a qualified candidate is identified. An affirmative Action/Equal Opportunity Employer. Women and Minorities Encouraged to Apply.

SENIOR RESEARCH TOXICOLOGIST

Southwest Research Institute's Biosciences and Bioengineering Department has a current opening for a Senior Research Toxicologist. The successful candidate will perform pre-clinical research for the biotechnology industry, neurotoxicology research for the petrochemical industry, and development of medical devices. Assist the current staff in the areas of behavioral sciences, inhalation toxicology, pharmacokinetics, physiology, pharmacology, neurotoxicology, and veterinary medicine. The position requires being able to function as a knowledgeable, independent scientist capable of establishing and maintaining recognized competence among peers both within the Institute and the industry. Position also will involve both implementing a research specialty of their own and serving as a Study Director for GLP toxicology projects. In addition to establishing a laboratory and training staff, successful performance will require both writing of proposals, protocols, price estimating, project management, and reports as well as verbal communication with clients. A doctoral degree in an area such as toxicology, pharmacology, or physiology is required. Minimum three years of post-graduate activity, preferably in an industrial or contract laboratory environment providing experience in GLP testing and/or applied R&D, is required. The specific area of expertise is not restricted, but experience in more than one of the following areas is highly desirable: biochemistry, cell culture, dermatologic/toxicology, general toxicology, genotoxicology, hematotoxicology, immunotoxicology, in vitro toxicology, or reproductive toxicology. Certification by the American Board of Toxicology is recommended. Skills in the operation of a clinical chemistry laboratory is a definite plus including candidates with a D.V.M. degree and pathology experience.

Southwest Research Institute is a non-profit research and development organization offering the kind of competitive salary and comprehensive benefits package that you would expect from a leader in the research industry. Resumes should be addressed to: Barbara James, Personnel Specialist, Southwest Research Institute, Personnel Department, #716 P.O. Drawer 28510, San Antonio, Texas 78228-0510.

Applications are invited for the position of

LABORATORY LEADER IN EUCARYOTIC GENE EXPRESSION

The successful candidate will lead a team devoted to the expression of proteins in eucaryotic cell systems and develop a research program on novel expression technologies. The candidate will have a background in molecular biology/biotechnology and expertise in the technologies used in expressing proteins in eucaryotic cells, as documented by his/her track record. The candidate will join the Department of Biology, Pharmaceutical Research New Technologies, which is located in Basel, Switzerland.

If you are interested, please forward your detailed curriculum vitae to our personnel department, att. Mrs. S. Gräzer, quoting reference Science 132/93/Grä.

F. Hoffmann-La Roche Ltd, P.O. Box, CH-4002 Basel
POSITIONS OPEN

BIOLOGY DEPARTMENT HEAD
James Madison University

Applications are invited from persons qualified for appointment as associate or full professor to serve as Head of the Department of Biology at James Madison University. Candidates must have a Ph.D. in a biological science, administrative experience, excellence in interpersonal and communication skills, and strong credentials to foster the department's current growth in undergraduate education and excellence in undergraduate research. Area of specialization is open; preference may be given to candidates whose area(s) of expertise complement those of the other faculty.

The Department consists of 500 majors, 15 M.S. students and 19 faculty members. Faculty and students are engaged in a variety of externally funded research programs. An important mission is to teach undergraduates by active involvement in faculty research projects.

Anticipated date of employment is July 1, 1994. Salary is competitive. Please submit curriculum vitae, philosophies of teaching and administrative leadership, long-term goals and research interests, and names, addresses and telephone numbers of five references to: John A. Mubble, Chair, Biology Department Head Search Committee, c/o Chemistry Department, James Madison University, Harrisonburg, VA 22807. Closing date for receipt of applications is November 15, 1993. The University is an Opportunity/Affirmative Action Employer and especially seeks applications from women, minorities, and persons with disabilities.

PROFESSOR AND CHAIR
Department of Microbiology and Immunology
University of North Texas Health Science Center at Fort Worth

The Department of Microbiology and Immunology of the University of North Texas Health Science Center at Fort Worth invites applications and nominations for a Chairperson. Candidates must have a Ph.D., M.D., D.O. or equivalent degree and an active research program with an outstanding research achievement in the areas of microbiology, immunology or virology. The Chairperson will be responsible for providing academic and administrative leadership to promote the research and teaching excellence of a vital young faculty.

The UNT Health Science Center is a state-supported medical facility housed in new, well-equipped facilities. The Health Science Center includes the Texas College of Osteopathic Medicine and the Graduate School of Biomedical Sciences at the University of North Texas Health Science Center at Fort Worth, 3500 Camp Bowie Boulevard, Fort Worth, 76107-2600.

UNT Health Science Center is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR
Mississippi—Alabama Sea Grant Consortium

The Board of Directors of the Mississippi—Alabama Sea Grant Consortium is seeking applications and nominations for the position of Director. Under direction of Board, the Director manages $1.5 million plus budget, provides leadership in a program of marine research, education, communications, outreach. Position full-time, 12-month appointment, to be filled by July 1, 1994. For information contact: Sea Grant Office, Gulf Coast Research Laboratory, P.O. Box 7000, Ocean Springs, MS 30656-7000; Telephone: 601-875-2244. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Available immediately at Harvard Medical School for an investigator with interests and experience in mammalian genetics. We will be using PCR-based techniques for DNA amplifications and maps. The Project requires extensive genetic analysis as well as management of the large data set to be generated. Please send curriculum vitae with three references to: David Beier, M.D., Ph.D., Genetics Division, Brigham & Women's Hospital, 75 Francis Street, Boston, MA 02115.

POSTDOCTORAL POSITION IN NEUROBIOLOGY
available immediately to study the neural control of oral behaviors in the snail, Helisoma. Projects could involve behavioral neurobiology, including correlations of gene expression and neural patterning; sensory-motor integration; intracellular or patch clamp analyses of mechanisms involved in the generation of neuromuscular activity; or electrophysiology. Send curriculum vitae, names and addresses of three references to: Dr. A. Don Murphy, Department of Biological Sciences, Indiana University, Bloomington, Indiana 47405. An Equal Opportunity/Affirmative Action Employer.

APPLICATIONS OPEN

Applications are sought for a tenure-track FACULTY POSITION

Applications should have significant research accomplishments, the ability to establish and maintain a vigorous research program, and to engage in teaching excellence at the graduate levels.

Applications should provide curriculum vitae, a summary of research accomplishments, a detailed statement of proposed research, courses going to offer, and copies of key publications or preprints. Applicants should arrange that at least three letters of recommendation be sent from scientists who can evaluate their accomplishments and future research and teaching. Applications should be sent to: Prof. Der-San Chu University of Texas at Austin National Chiao Tung University 1001 Ta Hsueh Road, Hsinchu, Taiwan, 30050. R.O.C.

Closing date for applications is October 31, 1993.

TENURE-TRACK FACULTY POSITIONS IN NEUROBIOLOGY at TEXAS A&M UNIVERSITY

Applications are invited for two tenure-track positions in the Department of Neurobiology. Applicants should possess a Ph.D. or M.D. with a minimum of two years of postdoctoral experience. Successful applicants will either have an independent research program, or be capable of establishing such a program. Applicants may be expected to work collaboratively with other faculty within the department and in the neuroscience community, participate in teaching graduate and medical students, and contribute to other departmental activities.

Salary is commensurate with rank and experience. Please send curriculum vitae, statement of research interests and names, addresses and telephone numbers of three references to: James R. West, Ph.D., Professor and Head, Department of Human Anatomy and Medical Neurobiology, Texas A&M University College of Medicine, College Station, TX 77845-1114. Texas A&M University is an Equal Opportunity/Affirmative Action Employer committed to diversity.

Biomedical Optics and Lasers
Research Faculty Position

Two positions in the Department of Basic Biomedical Sciences at Mount Sinai School of Medicine of New York University School of Medicine.

NEW ENGLAND EYE CENTER

Tufts Electro-Optics Technology Center and New England Eye Center seek candidates for twelve-month, full-time, positions presently non-tenure-track with possible future conversion to tenure-track. Candidate will provide leadership in developing a teaching and sponsored research program in lasers and optics for medicine. Ph.D. in Electrical Engineering or Physics and demonstrated ability to do experimental research. Preference to candidates with research and teaching experience in biomedical optics and lasers. Send curriculum vitae and list of three references to: Professor Paul Kelley, Acting Director, Electro-Optics Technology Center, Tufts University, 4 Cabot Street, Medford, MA 02158. Screening of applications will begin November 20, 1993. Tufts University is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN NEUROBIOLOGY

available immediately to study the neural control of oral behaviors in the snail, Helisoma. Projects could involve behavioral neurobiology, including correlations of gene expression and neural patterning; sensory-motor integration; intracellular or patch clamp analyses of mechanisms involved in the generation of neuromuscular activity; or electrophysiology. Send curriculum vitae, names and addresses of three references to: Dr. A. Don Murphy, Department of Biological Sciences, Indiana University, Bloomington, Indiana 47405. An Equal Opportunity/Affirmative Action Employer.

Applications Open

Applications are invited from individuals with research interests in developmental biology, molecular biology and genetics, protein structure and function, or crystallography. Success candidates should be capable of applying molecular techniques to understand the role of protein interactions in fundamental cellular processes such as transcription, translation, replication, membrane trafficking, intra- or inter-cellular signaling or metabolic regulation. Scientists with strong training in protein-protein interactions or enzymology are encouraged to apply. Rank and salary will be commensurate with qualifications. Applications should be sent to: Craig J. Benham, Department of Biological Sciences, Box 3023, New York University, 10029-6574. The deadline for completed applications is January 1, 1994. Mount Sinai is an Affirmative Action/Equal Opportunity Employer.

Washington University School of Medicine
Department of Biostatistics and Molecular Biophysics

POSTDOCTORAL POSITIONS

Available in X-RAY CRYSTALLOGRAPHY to study proteins involved in signal transduction (Wakeman et al., 1992, Nature, 358, 664 and Neutze et al., 1993, Cell, 72, 779), programmed cell death (Olival, Milliman, and Korsmeyer, 1993, Cell, 74, 609), or replication (Wong and Lohman, 1992, Science, 256, 350). Send curriculum vitae, summary of research experience and interests, and names of three references to: Dr. Gabriel Wakeman, Washington University School of Medicine, Department of Biochemistry and Molecular Biophysics, Box 8231, 660 South Euclid Avenue, St. Louis, MO 63110.
The Thinking Machines Corporation
Eminent Scholar Chair in
High Performance Computing

Applications and nominations are invited for the TMC Eminent Scholar Chair in High Performance Computing at Florida State University. This position is supported, in part, by a $4 million endowment and will be filled at a senior level in the College of Arts and Sciences. Applicants and nominees should have a distinguished academic or research record in one or more fields closely associated with modern high performance computing. These fields include applied mathematics, applied computer science, and computational science in one or more scientific or engineering disciplines. The appointment will be in one or more academic departments and in the Supercomputer Computation Research Institute (SCRI).

The primary responsibilities of the successful candidate will be to establish new research and education directions in high performance computing that complement the existing strong programs in SCRI, the National High Magnetic Field Laboratory, the Structural Biology Institute, the Global Climate Research Institute, and the academic departments. The Chair will be closely involved with the addition of several junior level academic appointments in connection with this new initiative in high performance computing, in order to establish the strongest possible group effort.

The deadline for applications is December 17, 1993. Applications and nominations should be sent to: HPC Chair Selection Committee, Mesoscale Air-Sea Interaction Group, Florida State University 32306-3041.

Florida State University is an Equal Opportunity/Equal Access/Affirmative Action Employer. Women and minorities are encouraged to apply.

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Lecturer in the Department of Microbiology
(Ref. No: 93/94-9)

Applications are invited for the post of Lecturer in the Department of Microbiology, initially for a fixed-term contract of two years from January 1994. Applicants should be either medically qualified (MBBS or equivalent) or scientifically qualified to PhD standard with a good research record. Previous experience in a diagnostic microbiology laboratory would be an advantage.

The duties of the Lecturer will be to: (1) participate in the teaching of medical microbiology to medical and dental undergraduate students, and in research seminars and other courses or academic activities organised by the department; (2) engage in a selected area of research, after discussion with the Head of Department; (3) (for a medically qualified appointee) participate in a laboratory and consultative service to other clinical units. The appointee will be encouraged to undertake further professional training as appropriate.

Annual salary [non-superannuable but attracting 15% (taxable) terminal gratuity] is on an 11-point scale, with starting salary depending on qualifications and experience: HK$461,800 - HK$718,500 (approx. US$46,987 - US$60,462; US Dollar equivalents as at September 13, 1993). At current rates, salaries tax will not exceed 15% of gross income. Annual leave, medical benefits and a monthly cash allowance of 52% or 37% or 60% of basic salary, depending on salary, will be provided.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2058; E-mail: APPTUNIT@HKUVM1.HKU.HK). Closes 30 October 1993.

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NATIONAL UNIVERSITY
OF SINGAPORE
LEE KUAN VIEW
POSTDOCTORAL FELLOWSHIP

Applications are invited for the Lee Kuan Yew Postdoctoral Fellowship from candidates with excellent academic records and proven research ability, and who had obtained their PhD degrees in the last few years.

The Fellowship will be tenable for 3 years in the first instance, with possible extension for 2 further years. It will be held concurrently with the candidate’s appointment as a research staff member in one of the following Faculties/Institutes:

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

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

- Gross annual emoluments range from $651,500 to $65,620. (The commencing salary will depend on the appointee’s qualifications and experience.)
- Leave and medical benefits will be provided. Depending on the type of contract offered, other benefits may include: provident fund benefits or an end-of-contract gratuity, a settling-in allowance of S$1,000 or S$2,000, subsidised housing or a housing allowance, education allowance for up to three children subject to a maximum of S$1,625 per annum per child, passage assistance and baggage allowance for the transportation of personal effects to Singapore.

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

Applications for the fellowship should be sent to:

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

or through BITNET to: PERLT @ NUS3090, or Telefax: (65) 7783948. (Please indicate your area(s) of specialisation of facilitate the processing of your application.)
POSTDOCTORAL POSITION
Molecular and Cellular Endocrinology

To investigate the mechanisms governing the differentiation and transdifferentiation of growth hormone- and prolactin-producing cells. We study these processes at the single, living cell level by employing a broad spectrum of molecular and cellular strategies which include combinations of the following techniques: reverse hemolytic plaque assays for quantifying hormone secretion, video imaging of luciferase-promoter constructs for assessing gene expression, and microinjection (cytoplasmic and nuclear) for selectively introducing gene expression and hormone secretion. Background in molecular biology preferred but not required. A more senior position will be considered for individuals with extensive experience. Please send curriculum vitae and the names of three references to: L. Stephen Frawley, Ph.D., Department of Cell Biology and Anatomy, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425. Telephone: 803-792-3526.

POSTDOCTORAL POSITION
In Molecular Virology and Cancer

Position available to study the role of hepatitis B viruses in hepatocarcinogenesis. Research involves utilization of transgenic and cell culture approaches to study the role of viral genes, growth factors (particularly IGF-I and the N- and P-subunit of IGF-II) and the N- and P-subunit of IGF-II in hepatic cell transformation. Candidates should have a Ph.D. degree and research experience in molecular biology or virology. Please send curriculum vitae and the names of three references to: Charles E. Rogler, Ph.D., Liver Research Center, Department of Medicine, Albert Einstein College of Medicine, Jack and Pearl Resnick Campus, 130 Morris Park Avenue, Bronx, NY 10461. An Equal Opportunity Employer.

POSTDOCTORAL POSITION
PLANT MOLECULAR BIOLOGY
CALGENCE, INC.

Calgene Fresh, Inc. is a wholly owned subsidiary of Calgene, Inc. devoted to improving tomato and other fresh market crops through a variety of techniques including genetic engineering.

Applications are invited for a 2-year postdoctoral position to study carbohydrate metabolism in tomatoes. This project will involve both molecular biology and physiology. The role of starch, plant starch metabolism, plants altered in various aspects of carbon metabolism. Experience in recombinant DNA technology, plant physiology, carbohydrate, and biochemistry is required. A Ph.D. is available January 1994. For more information please contact: Dr. Christine Shewmaker at (916-783-6316). We offer a competitive package of benefits.

Applications including curriculum vitae and names of three preferred references should be sent to: Dr. Calgene Fresh, Inc., c/o Human Resources AN-500, 910 Fifth Street, Davis, CA 95616. An Equal Opportunity Employer, M/F/D/V.
Postdoctoral Research Associates

The Agricultural Research Service, as the principal scientific research agency of USDA, conducts research to solve technical food and agricultural problems of broad scope and high national priority. The agency's work is carried out under six specific research objectives—conservation of soil, water and air, plant productivity, animal productivity, commodity conversion and delivery, human nutrition and well-being, and integration of systems. Overall aim of ARS research is to ensure the continuation of an adequate supply of food and fiber of high quality to meet the needs of American people and for export.

ARS is currently recruiting for 50 postdoctoral positions throughout the United States. Opportunities exist in many research areas, including:

- Human Nutrition
- Genetics
- Immunology
- Virology
- Biochemistry
- Chemistry
- Microbiology
- Animal Science
- Entomology
- Plant Physiology
- Plant Pathology
- Agronomy
- Soil Science
- Engineering

Successful candidates will be hired initially for up to 2 years in duration. Salary for these positions is $33,623 to $40,298 (higher in parts of CA and NY) will be based on qualifications and experience. There are some employment restrictions for non-U.S. citizens.

For written descriptions of positions and application procedures, write to:

J.M. Ruth
Personnel Division (SC)
USDA/ARS
6305 Ivy Lane, Room 129A
Greenbelt, MD 20770-1435
or call:
Julie Cypriano
(301) 344-0101

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CELLULAR IMMUNOLOGIST
Staff Scientist

Applications are invited for a tenure-track scientist in cellular immunology at The Wadsworth Center for Laboratories and Research, New York State Department of Health, Albany, available fall-winter 1993. The center seeks candidates who apply cellular and molecular approaches to the study of lymphocyte activation, interaction, and/or regulation, and who will interact with established groups in virology, cell biology, biochemistry, and molecular genetics. The successful candidate will possess a broad knowledge of immunology and develop a strong independent basic research program. Participation in immunology graduate programs at the State University of New York, Albany and at other area institutions is strongly encouraged. Candidates must possess a Ph.D. or equivalent degree and have at least three years of postdoctoral experience. Salary to be commensurate with qualifications. Send curriculum vitae, a statement of current and future research interests, and names, addresses, and telephone numbers of four references by November 1, 1993 to Dr. Donal Murphy, Chairman, Immunology Search Committee, Wadsworth Center for Laboratories & Research, P.O. 509, Albany, New York 12201-0509. The Wadsworth Center is a multidisciplinary basic research and public health center, and is an equal opportunity/affirmative action employer. Women and minorities are encouraged to apply.

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TWO ENDOWED CHAIRS IN PHYSICAL CHEMISTRY

University of California, San Diego

The Joseph E. Mayer Chair of Theoretical Chemistry and the Distinguished Chair of Physical Chemistry have been established at the Chemistry Department of the University of California, San Diego. Both are full, tenured professorships, salaries to be commensurate with experience and University of California salary scale. Applications, indications of interest, and recommendations of others who should be considered are most welcome. Please submit to Professor Katja Lindenberg, Chair, Department of Chemistry, University of California, San Diego, La Jolla, CA USA 92093-0332. All areas of physical chemistry, including applications of physical chemistry to other branches of chemistry and to other fields of science, including physical, biological, material, and environmental sciences, will be considered. All applications received by November 30, 1993 or thereafter until position is filled will be assured consideration. Affirmative Action/Equal Opportunity Employer.

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THEORETICAL ECLOGIST

Department of Ecology and Evolutionary Biology (Anticipated Position)

The Department of Ecology and Evolutionary Biology in conjunction with the Center for Conservation and Biodiversity seeks a Theoretical Ecologist for an anticipated tenure-track position at the Assistant Professor level for September 1994. Duties include teaching a graduate course in theoretical/mathematical ecology and participating in undergraduate and graduate courses as appropriate. Requirements: strong research and teaching commitment, with a demonstrated ability to make significant contributions to ecological theory and to its integration with empirical ecology through mathematical modeling. Send curriculum vitae, statement of research interest, reprints, and three letters of recommendation to: Dr. J. Silander, Chair, Search Committee, Department of Ecology and Evolutionary Biology, U-42, University of Connecticut, 75 N. Eagleville Rd., Storrs, CT 06269-3042. Screening of applications will begin November 8, 1993 and continue until position is filled. We encourage applications from under-represented groups, including minorities, women and people with disabilities. (Search #4A103)
Research Position
Program on Environment
East-West Center

The East-West Center is a public, nonprofit education and research institution with an international board of governors. Scholars, graduate students, educators and professionals in business and government, work with the Center’s staff on current Asia-Pacific issues. The Center was established in Hawaii in 1960 by the U.S. Congress, which provides principle funding. Support also comes from more than 20 Asian and Pacific governments, private agencies and corporations and through the East-West Center Foundation.

Applications are being accepted for appointment as a Fellow to conduct research in the East-West Center’s Program on Environment. The initial appointment is for 1 1/2 years; extension is subject to availability of funds and satisfactory performance.

Under the direction of the program area coordinator, the fellow will supervise a multi-country research study of health-damaging and climate-warming pollutants from small widely-used combustion devices, such as kilns and cooking stoves; will oversee the data collection in-country research institution, coordinating the activities of the research teams and ensuring quality control including travel to field sites as needed; coordinates data analysis and interpretation with laboratories on the mainland United States and assists with analysis and publication of the results of the study.

REQUIRED QUALIFICATIONS: Ph.D. or equivalent in the natural sciences, with coursework related to air pollution. Ten years of substantive research experience beyond the master's degree may be considered as equivalent to the Ph.D. Field research experience studying air pollution or related topics. Good writing skills in English and ability to write up research reports for scholarly and general audiences. Ability to work with and communicate effectively with multi-national research team members. Applicants must submit a writing sample which illustrates their ability to write up research results.

PREFERRED QUALIFICATIONS: Ph.D. in environmental chemistry, environmental engineering; environmental health science. Research management experience. Experience working in a cross-cultural situation. Ability to use air pollution models.

SALARY: $33,623.00 to $44,327.00 per year, depending on qualifications, plus a cost-of-living allowance currently at 22.5% (subject to change) and an attractive benefits package.

Submit cover letter including position title and a statement addressing how the qualifications are met, a resume, and names and addresses of three professional references. Screening and assessment will be based on the materials you submit. Send to: Wanda Dial, Personnel Office, Dept. 19, East-West Center, 1777 East-West Road, Honolulu, Hawaii 96848 or FAX to: (808) 944-7970. Applications must be postmarked/FAXed by November 26, 1993.

An Equal Employment Opportunity/Affirmative Action Employer

ASSOCIATE RESEARCH SCIENTIST

Bristol-Myers Squibb, Department of Biologics Evaluation, is expanding at its Syracuse, New York location. We have a current need for a scientist to work on the development of immunologic and molecular techniques for the assessment of toxicity and antigenicity of recombinant DNA derived protein therapeutics.

To qualify, candidates should possess a BS or MS in a scientific discipline with a broad background in immunology (cellular and molecular) and the development of antibody based assays. Experience with animals and GLP procedures is desirable.

We offer an excellent salary, comprehensive benefits and a working environment conducive to professional growth. For confidential consideration, forward your resume with salary requirements to: Manager Human Resources, Position PR-097-93, BRISTOL-MYERS SQUIBB COMPANY, P.O. Box 4755, Syracuse, NY 13221-4755. Equal Opportunity Employer, M/F/D/V.

Bristol-Myers Squibb Company

Assistant Research Scientist

Postdoctoral Fellow/Research Associate to study distributed brain function using single neuron multi-electrode techniques. Primary focus is cerebellar coordination of oro-facial movement in rodents. Strong background in computer programming and quantitative analysis is preferable. This position is for 2 years of support; salary is competitive.

Send curriculum vitae and 2 letters of reference to: Ms. Maha Singh, NYU Medical Center, 550 First Ave., New York, NY 10016. CVs must be received by Nov. 1. EOE, M/F.

PROGRAM OF EXCELLENCE IN MOLECULAR BIOLOGY OF THE HEART AND LUNG

Special Postdoctoral Positions

The University of Cincinnati Program of Excellence in Molecular Biology of the Heart and Lung, funded by the National Heart, Lung and Blood Institute of NIH, has a goal the application of molecular genetic approaches to study heart and lung function. Postdoctoral work closely and individually to be trained in initial years but are encouraged to develop a research program separate from that of the sponsor and apply for independent funding during the final years.

The Program is open to Ph.D.'s or M.D.'s wish training in molecular genetics who wish to apply their skills to significant problems of heart or lung or to individuals with strong background in heart and lung who wish to develop molecular genetic tools for continued study of these problems. We are particularly interested in recruiting minorities to the Program. Stipends begin at $30,000 per year with benefits. Openings are available in several of the laboratories listed below.

- Na, K-ATPase gene regulation and structure-function studies including identification of the cardiac glycoside binding sites using site-specific mutagenesis. Jerry B. Lingrel
- Characterization of lung surfactant proteins and genes. Jeffrey Whitsett
- Collagen gene expression in the heart and lung. Winson Kao
- Structure-function relationships and genetic regulation of ion-transport proteins of the heart and lung. Gary Shall
- Targeted modification of the cardiac contractile proteins and growth and developmental control of cardiac muscle. Jeffrey Rubbins
- Manipulating genes important in heart and lung development by insertional mutagenesis and targeted modification in ES cells. Steven Poier
- Structure, function and regulation of Ca+ channel proteins (heart, brain, vascular smooth muscle) and gene regulation; isolation of receptors for calcium antagonists. Arnold Schwartz
- Role of apolipoproteins in heart and lung development and in resistance to disease. Judith Harmony
- Targeted modification of genes important in cardiovascular development and disease. Thomas Dietzchnich
- The genetics of human cardiovascular disease. Avi Menon

Applicants should submit a C.V. and the names of three references to Jerry B. Lingrel, Ph.D., Director, Program of Excellence in Molecular Biology, Department of Molecular Genetics, Biochemistry and Microbiology, University of Cincinnati College of Medicine, Cincinnati, Ohio 45267-0524.

Affirmative Action/Equal Opportunity Employer
Baxter Healthcare Corporation is a name that is recognized and respected around the world. When it comes to research, our commitment is second to none. That's why Baxter Diagnostics Inc., currently seeks a Research Scientist to join our team.

In this position, you will become a key member of a research team developing a new technology for use in accessing platelet function. This will include optimization of the instrument/reagent system and developing additional platelet diagnostic tests for the fundamental platform.

To qualify, you should have a Ph.D. in cell biology or biochemistry with an emphasis in cell biology. A minimum of 2-5 years of experience in the area of whole blood cells and/or platelet research is required. Technical expertise in platelet/collagen interaction and collagen structure is desirable.

We can offer you a competitive salary and benefits package along with solid career opportunities. For consideration, send your resume to: Baxter Diagnostics Inc., P.O. Box 520672, MS 602-BS, Miami, FL 33152-0672. An Equal Opportunity Employer.

Baxter Diagnostics Inc.

THE AGA KHAN UNIVERSITY
Faculty of Health Sciences
Medical College

The Aga Khan University is now in its tenth year of operation. Its affiliated Aga Khan University Hospital has well equipped teaching and service laboratories and will have 654 beds when fully operational. The University and the University Hospital are autonomous, privately funded and philanthropic institutions committed to the provision of effective Medical/Nursing education and health services relevant to Pakistan and the region.

The Faculty of Health Sciences consists of a School of Nursing and a Medical College. The current annual intake of medical students is 70. English is the medium of instruction.

Applications are invited from highly committed professionals for the following positions in our PHYSIOLOGY DEPARTMENT:

PROFESSOR AND CHAIRMAN

The individual filling this senior position will be responsible to provide dynamic academic leadership in the administration of the Department, to formulate short term and long term plans for the future development of the faculty and the department, to organize and lead the research strategy, and to promote physiology at national and international level.

The candidates must have suitable postgraduate qualifications in the related field. Achievements in research and experience in teaching and administration at a senior level is necessary.

ASSISTANT/ASSOCIATE PROFESSOR

Candidates applying for these positions must have a Ph.D in Physiology or cognate discipline and at least six to eight years of post-doctoral experience in teaching and research. Preference will be given to candidates in the field of neurophysiology, reproductive endocrinology or cardio-respiratory physiology.

The commencing salary will be based on the candidate’s qualifications, experience and level of appointment offered. Our benefits package includes provident fund, insurance coverage, relocation allowance, leave and medical benefits, company maintained car for professors and housing for expatriates only. Candidates intending to pursue a career in Pakistan will be preferred. If you are seeking professional growth and an excellent work environment, please send your detailed résumé, bibliography and names of at least three referees familiar with your recent work history to the Personnel Manager, The Aga Khan University, P.O. Box 3500, Stadium Road, Karachi-74800, Pakistan.

SmithKline Beecham Pharmaceuticals
Challenging the natural limits.
POSTDOCTORAL FELLOW—Position available immediately for an individual to study gene expression in pancreatic islets. Experience in molecular biology required. Send curriculum vitae to: Dr. Michael J. MacDonald, University of Wisconsin Medical School, Room 3459, 1300 University Avenue, Madison, WI 53706, Telephone: (608) 262-1195, FAX: (608) 262-9300.

POSTDOCTORAL FELLOW to examine the regulation of growth and differentiation of malignant hematopoietic cells. Studies will focus on the transcriptional regulation of c-fos proto-oncogene activity in Burkitt activated lymphoblastoid cell lines. Send CV and a letter of interest to: GM-CSF and pms. [PNAS 89:5341.2747 and Cell Growth and Diff. 4:523]. Experience in molecular biology and cell culture is required. Send curriculum vitae to: Dr. A. Kraf, University of Alabama at Birmingham, 1824 6th Avenue South, Birmingham, AL 35294.

POSTDOCTORAL RESEARCH FELLOWSHIPS

The Basic Research Division of the Barrett Research Institute is seeking postdoctoral fellows to begin July 1, 1994. The diverse research interests of staff investigators include: molecular biology/immunology of autoimmune diseases, immunology of dendritic cells and flow cytometry, fatty acid transport and metabolism of albumin, gastrointestinal diseases, tumor metastasis, and metabolism of disease in vivo, intestinal microbial ecology and pinellin/neuroendocrine regulation of cancer growth. The Barrett Research Institute provides a supportive and congenial research environment combining basic, clinical and population studies. Located in scenic upstate New York, Cooperstown offers a rich blend of cultural activities and outdoor activity. Interim Imogene Bassett Hospital is an affiliate of Columbia University College of Physicians and Surgeons. Applicants should submit curriculum vitae, names and addresses of three references and a brief description of research interests to: Thomas A. Pearson, M.D., Ph.D., Director, Research Institute, Mary Imogene Bassett Hospital, One Atwell Road, Cooperstown, NY 13326–1394.

University of California, San Francisco

POSTDOCTORAL FELLOWSHIPS IN CANCER BIOLOGY

Several fellowships are available for research on the genetic, molecular, cellular, and developmental aspects of cancer biology. The faculty include: Michael J. Banda (wound repair and protein expression inhibitors); James E. Cleaver (DNA repair genes; transgenic models of repair-defective diseases), William F. Morgan (molecular mechanisms of chromosome damage and repair, delayed chromosomal instability), John P. Murnane (Mechanisms of rearrangement of the mammalian genome), and Eugene A. Pedersen (early mammalian development; genome imprinting; transgenic mice; homologous recombination), Zena Werb (ECM signaling; metalloproteinases; mammalian development; tissue repair; mammary gland function), and Sheldon Wolff (chromosome damage and repair; radiation cytogenetics; SCE's). Stipends are funded through NEIHS. Appointments can begin immediately. The requirements are a Ph.D. degree or equivalent, preferably in genetics, biochemistry, molecular biology, cell biology or development. Training in in vitro systems is preferred. Send resume, graduate transcript, statement of research interests, and three letters of recommendation by January 15, 1994, to: Dr. Zena Werb, Program Director, Laboratory of Cell Biology and Environmetal Health, University of California, San Francisco, CA 94143–0780. An Equal Opportunity/Affirmative Action Employer.

RESEARCH FELLOWSHIP

IN CARDIOVASCULAR PHYSIOLOGY

1-YEAR FELLOWSHIP

Ph.D. or M.D. familiar with chronic animal models of cardiovascular function and disease. Studies include CNS and autonomic control and computer-assisted left ventricular electromyography. Good teaching and data analysis skills required. Please send curriculum vitae and names of references to: Dr. Debra Kirby, Department of Cardiovascular Surgery, Children's Hospital, 333 East 18th St., Room 1156, Boston, MA 02115. (617) 636-6742. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE—Position available immediately to investigate the molecular genetics of a cytochrome P450 involved in insecticide resistance. Experience in gene cloning, sequencing, database searching and other molecular techniques desirable. Send curriculum vitae, a brief statement of research experience and a letter of reference to: Dr. J. G. Scott, Department of Entomology, Comstock Hall, Cornell University, Ithaca, NY 14853; 607-255-0939. An Equal Opportunity Employer.

Transgenic plant POSTDOCTORAL RESEARCH AND TECHNICAL TERM POSITIONS available to work on (oiled) flax for crop improvement. Our small group deals with all aspects, from Agrobacterium transformation to field testing for commercial release of transgenic cultivars. If you have experience in PCR (1/E 9600), Agrobacteria, etc., we can teach you about flax. Send full curriculum vitae to: Dr. Alan McHughen, Crop Development Center, University of Saskatchewan, Saskatoon, SK S7N 0W0, Canada. FAX: (306) 966-5015; Email: McHughen@Sask.U Sask.ca.

POSTDOCTORAL ASSOCIATE

Postdoctoral position available to study physiological and pharmacological aspects of neuropsychopside and biogenic amine receptors and their interactions in quantitative autoradiography, immunocytochemistry, isolated organ preparations, whole animal physiology, and HPLC is essential. Applicants should have three years of postdoctoral experience. Starting salary will be commensurate with qualifications and experience ($43,500 to $62,293). Send curricula vitae and names and addresses of three references to: J.M. Gevins, M.D., Section on Pharmacology, LCS, NIMH, Building 10, Room 2D-45, 9000 Rockville Pike, Bethesda, MD 20892. NIMH is an Equal Opportunity Employer.

RESEARCH ASSOCIATE

Research Associate position available immediately at Florida A&M University, College of Pharmacy and Pharmaceutical Sciences, Division of Basic Pharmaceutical Sciences. The successful candidate will work for two Ph.D. scientists and will join our ATSDR-supported Substance Specific “Heavy Metal” Laboratory and study the effect of lead on the phosphorylation of enzymes and proteins involved in the neurotransmitter system. We seek a creative individual with demonstrated expertise in cell culture techniques, standard molecular biology techniques, and basic biochemistry techniques. Skilled in gel electrophoresis, enzyme assays, protein and enzyme purification. Additional responsibilities include laboratory organization and management research together with graduate and undergraduate students.

Requirements: Ph.D. in Molecular Biology/Biochemistry or Biochemical Pharmacology or Pharmacology/Toxicology with course work in molecular biology and pharmacology. Initial appointment for two years with the possibility of annual renewal. Salary negotiable: Minimum salary $20,000, Benefits $7,000. Send curriculum vitae, publications, and names and telephone numbers of three references to: Dr. R. Renee Reams, Florida A&M University, College of Pharmacy and Pharmaceutical Sciences, Tallahassee, FL 32307-3407. Florida A&M University, a state operated HBCU, is a committed Equal Opportunity/Affirmative Action Employer. Minorities and women are encouraged to apply.

RESEARCH ASSOCIATE

IN CARDIOVASCULAR PHYSIOLOGY

Ph.D. or M.D., familiar with chronic animal models of cardiovascular function and disease. Studies include CNS and autonomic control and computer-assisted left ventricular electromyography. Good teaching and data analysis skills required. Please send curriculum vitae and names of references to: Dr. Debra Kirby, Department of Cardiovascular Surgery, Children’s Hospital, 333 East 18th St., Room 1156, Boston, MA (617) 636-6742. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Molecular Oncology

A position is available for a postdoctoral fellow to study growth factors in gynecological cancer. The candidate must have a Ph.D. in biochemistry or molecular biology. The candidate will also be involved in studies on new immunotherapies and antisenste therapy. Knowledge of cellular and molecular biology and experience with protein, RNA, and DNA purification and analysis is desirable. Experience with handling radioactive materials is a must. Please send curriculum vitae along with letter of interest to: Ewa Kowalczyk-Saikowska, Ph.D., M.D., Division of Molecular Oncology Labs, University of Nebraska Medical Center, 600 South 42nd Street, Omaha, NE 68192-3525, or FAX: (402) 559-5015. UNMC is an Equal Opportunity/Affirmative Action Employer.

Ph.D.—Full-time RESEARCH POSITION for a Ph.D. at the Obesity Research Center to participate in ongoing studies of adipose Tissue and Muscle Metabolism, including Molecular Biology Techniques. Candidates should have at least four years of progressively responsible research experience in the field of Obesity, and researches and be eligible for a tenure-track scientist position at the College of Physicians & Surgeons, Columbia University. Reply with curriculum vitae to: F.X. Pi-Sunyer, M.D., Obesity Research Center, St. Luke’s-Roosevelt Hospital Center, 1111 Amsterdam Avenue, New York, NY 10025. Equal Opportunity Employer, M/F/D/V.

RESEARCH ASSOCIATE POSITION in clinical chemistry laboratory to start immediately for Ph.D. with experience in clinical chemistry assay development, administration and writing. This position has the potential for a long-term position. Salary and benefits are competitive. Apply to: D. J. Baylink, M.D., VA Medical Center (161), 11201 Benton Street, Loma Linda, CA 92357. Equal Opportunity Employer.

TOXICOLOGISTS

The California Environmental Protection Agency, Department of Pesticide Regulation seeks Staff Toxico- logists in its pesticide regulatory program. Incumbents will evaluate toxicity studies and conduct risk assessments. Positions exist for individuals with Doctorate degrees in toxicology, pharmacology, or a closely related field with substantial experience in environmental toxicology. Salary range begins at $4378 per month (minimum, Ph.D. and 3 years of experience). Comprehensive benefits package. Continuous testing, oral exam required. Submit resumes to:

Department of Pesticide Regulation
Examinations Unit
1220 N Street, Room 154
Sacramento, CA 95814

RESEARCH HYDROGEOLOGIST; USDA-ARS has a permanent position at the Hydrology Laboratory, Beltsville, Maryland. Incumbent will coordinate, supervise, and conduct large-scale field experiments which encompass a wide range of remote sensing techniques and field develop, evaluate and improve physically based models which can be used to evaluate water and energy balance at local and regional scales. Degree in Hydrology or a related discipline plus knowledge in remote sensing, technology or geology and Ph.D. and research experience using remote sensing techniques are preferred. Position will be filled at the GS-12 level, which will range from $53,000 to $58,536 per year, based on qualifications and experience. For position information contact: Dr. Walter Rawls, Hydrology Laboratory, USDA-ARS, Beltsville, MD 20705; or call 301-504-8745; FAX: 301-504-8931. For the vacancy announcement and application procedure, please contact: The National Personnel Office, 901 North Ivy Lane, Greenbelt, MD 20770–1435; or call 301-534–0105. Applications must be marked ARS-D-3-B0047-3 and postmarked by October 25, 1993. Incomplete applications will not be considered. Minorities and women are encouraged to apply. ARS is an Equal Opportunity Employer.
Aviron is an exciting new San Francisco Bay Area biopharmaceutical company focused on the prevention of viral diseases. Aviron is using proprietary technology to develop live virus vaccines for major respiratory viruses and herpesviruses. This is an opportunity to become a part of an experienced management team, talented scientists, and a highly committed and distinguished scientific advisory board.

You will provide continuing direction to the research efforts of the company. As a member of senior management, you will develop long-term research goals and ensure their attainment through the efforts of the Research organization.

The ideal candidate should possess a PhD and/or MD with a broad-based knowledge of infectious diseases. Recognition within research and at least ten years of progressively responsible research management are prerequisites to this position.

Don't miss this opportunity to make an impact on this young and dynamic company. Please send your C.V. to: Aviron, Human Resources Dept. VS, 1450 Rollins Road, Burlingame, CA 94010. EOE.
Positions Open

RESEARCH ASSOCIATE UNIVERSITY OF MINNESOTA CANCER CENTER

An annually renewable position at the rank of Research Associate will begin on December 1, 1993, for candidates who hold a Ph.D. in the Biological Sciences or an M.D., with at least three years of postdoctoral experience in immunology and molecular biology. This position is part of a large program at this institution developing immunotoxins and immunomunogens for human use. This individual will play a major role in the ongoing development of genetically engineered immunotoxins against normal and malignant lymphocytes. Applicants should send curriculum vitae, names of three professional and a brief statement of research activities to: Research Associate Search, Attention: John Kersey, M.D., University of Minnesota Cancer Center, Box 806 UMHC, 420 Delaware Street, SE, Minneapolis, MN 55455. Deadline for application is November 22, 1993. The University of Minnesota is an Equal Opportunity Employer and Educator.

R.S. DOW NEUROLOGICAL SCIENCES INSTITUTE

Basic discoveries of the nervous system leading to innovative patient care

NEUROBIOLOGIST. The R.S. Dow Neurological Sciences Institute invites applications for a new position in the field of subcellular and cellular neurobiology. The Institute is committed to a strong interdisciplinary research environment. Candidates with research interests in the fields of biochemistry, molecular biology, pharmacology, and neurobiology are encouraged to apply. Generous start-up funds, equipment and laboratory space are available. Level of appointment will depend upon research accomplishments. Candidates should submit curriculum vitae, three letters of reference, and a brief statement of research goals by November 15, 1993. The Search Committee, R.S. Dow Neurological Sciences Institute, 1120 N.W. 20th Avenue, Portland, OR 97209.

EH&S SPECIALISTS

The University of California, Irvine, is seeking two EH&S Specialists to develop and implement comprehensive laboratory safety policies and procedures. One position will serve the College of Medicine and the other the Schools of Biological Sciences and Physical Sciences. Responsibilities include assisting laboratory personnel with implementing safe operating and hazardous waste minimization lab working, inspecting laboratories, and assisting faculty and staff in implementing school-wide laboratory safety policies and procedures. The successful candidate will have experience applying the principles of occupational health and safety to chemical, physical, and biological hazards, and to facility protection in an academic laboratory environment, as well as experience with developing and implementing policies and procedures, training/instruction, and record-keeping programs. Effective written and oral communication skills are needed. Advanced degree in scientific discipline desired.

Please request required application materials for Job #CUE-822 by calling (714) 856-4117. Submit completed application and resume to: UCI Campus, Human Resources, Irvine, CA 92717-4600. Affirmative Action/Equal Opportunity Employer.

MEDICAL SYSTEMS ANALYST at major university medical center to develop image processing software programs and contribute to maintenance of hardware for stereotactic research and clinical settings, under direct supervision of stereotactic neurosurgeons, collaborating with computer science and biomedical engineering facility. Minimum requirements include an M.S. in Electrical Engineering with specialization in software development, image processing, or medical applications. Must be knowledgeable in UNIX operating system (including Internals); programming languages including C, Pascal, FORTRAN, and X Window system; minimal assembler experience; computer workstations; and experienced software development of interfaces with image acquisition systems. Basic knowledge of available software packages preferred. Job available immediately. Salary $24,000 per year. Send curriculum vitae and three references to: Job Order # TN 1402965, Ma. Kathy Malo, Programs and Technical Support, Tennessee Department of Employment Security, Nashville, TN 37245-1200.

Positions Open

BIOLOGIST

Full-time tenure-track biologist sought for September 1994 to join a faculty of five in an undergraduate department. Teaching will include vertebrate anatomy and embryology, genetics, and advising of pre-health students expected. Area of specialization may include endocrinology, neurobiology, immunology, or developmental biology. Ph.D. required. Applications should include curriculum vitae, a letter indicating interest and skills in teaching, a statement of research activities, and the names and addresses of three referees. Materials should be sent by 4:00 p.m., November 1, 1993. Send applications to: Dr. James Malcolm, Department of Biology, University of Redlands, P.O. Box 300, Redlands, CA 92373-0999. The University of Redlands is a private, liberal arts university. The College of Arts and Sciences, in which this position exists, enrolls 1500 undergraduates. The University lies between Los Angeles and Palm Springs. The University of Redlands is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

FIELD BOTANISTS (2)

THE NEW YORK BOTANICAL GARDEN

The Institute of Economic Botany of the New York Botanical Garden invites applications for two positions for Field Botanists (1 Ph.D.-level and 1 B.S.-level) with background in plant taxonomy and field experience within the U.S., to assist in the development and voucher a broad range of plant taxa from the United States and its territories and possessions. Excessive travel is required. Successful applicants will participate in a study that assesses the distribution of plant taxa. The successful candidate will work as part of a collaborative project with scientists from the Fitzner Institute. The NYBG Institute of Economic Botany is interested in examining the relationship between people and plants. Please send curriculum vitae and names of three references to: Personnel Department—FB, The New York Botanical Gardens, Bronx NY 10458-1100. Telephone: 718-220-5044. Affirmative Action/Equal Opportunity Employer/M/F/D/V.

SCIENTISTS

DNA DIAGNOSTICS

NAXCOR is a young, dynamic biotechnology company developing a new class of DNA probes for diagnostic and therapeutic products. We are seeking energetic and creative scientists who are looking for a challenging environment. The following opportunities are available:

SENIOR SCIENTIST

A Ph.D.-level scientist with a background in DNA probe diagnostics is sought as a member of a team responsible for the development and implementation of all phases of assay design. Two to three years of experience in commercial or academic biotechnology environment is desired.

RESEARCH SCIENTIST

An M.S. or equivalent-level scientist with experience in DNA diagnostics. This individual will be involved in the optimization of products prior to commercialization. One to two years of experience in DNA/RNA hybridization, HPLC, and gel electrophoresis is required.

Please send cover letter and résumé to: NAXCOR, 87 Encina Avenue, Palo Alto, CA 94301. We are an Equal Opportunity Employer.

SPECIALIST IN MICROSCOPY

The successful candidate will develop and manage a histochemistry and immunocytochemistry microscopy facility. Responsibilities include execution of research projects, upkeep and operation of various Zeiss microscopes, maintaining protocols as well as assisting faculty and training members of the Department. New protocols in histochemistry as well as image analysis should be introduced.

The candidate should have a B.S./M.S. (Ph.D. preferred) in the biomedical field and two or three years of experience in cytology, immunocytochemistry, in situ hybridization and immunofluorescence microscopy.

Send letter of application, curriculum vitae and names of three references to:

Helen Reinhart Looshardt
Department of Cardiology/Room 1309 Enders Children’s Hospital
1000 Providence Boulevard
Boston, MA 02115

Children’s Hospital is an Affirmative Action/Equal Opportunity Employer.

Positions Open

BIOCHEMIST—The Chemistry Department of Williams College invites applications for a temporary (one-semester) position in biochemistry for spring 1994. The appointee will have responsibilities: teach a major seminar course on biochemistry (to review current literature in biochemistry and molecular biology) and the supervision of two introductory chemistry laboratory sections. Candidates should have a strong record of dissemination in biochemistry or related areas. The minimum salary for the position is $16,000. Williams College is a highly selective undergraduate institution of approximately 2300 faculty and 2000 undergraduates, located in northwestern Massachusetts. The Chemistry Department, with ten faculty members, offers majors in chemistry. The current search is to last until May 15 for the Spring 1994 semester. Send résumé, undergraduate and graduate transcripts, and two recent letters of recommendation to: Malcolm, Department of Chemistry, Williams College, Williamstown, MA 01267, by November 23, 1993. As an Affirmative Action/Equal Opportunity Employer, Williams College is especially interested in identifying minority and women candidates.

CARDIOVASCULAR RESEARCH SCIENTIST

The Section of Cardiology of East Carolina University School of Medicine has an opening for a Research Scientist. The research laboratory is fully equipped for experiments assessing myocardial contractile function and the evaluation of coronary artery blood flow. Responsibilities include independent academic research, support of research and faculty, and instruction and supervision of cardiology fellows involved in basic research projects. Requirements are a Ph.D. in pharmacology/physiology or related medical sciences, plus additional postdoctoral training and experience in surgical techniques, cardiovascular diseases, and experimental design and analysis; some managerial experience and demonstrated independence in prior research activities. Salary is commensurate with experience and qualifications and is comparable to other academic institutions. Submit curriculum vitae to: William C. Reeves, M.D., Professor of Medicine & Section Head, Section of Cardiology, East Carolina University School of Medicine, 2540 Portland Bay Boulevard, Greenville, NC 27858-4584; Telephone: 800-775-4651. Federal law requires proper documentation of identity and employability prior to final consideration for this position. Affirmative Action/Equal Opportunity Employer.

CELLULAR AND MOLECULAR PHYSIOLOGY

REPRODUCING FOR M.D. OR PH.D. SCIENTISTS

UNIVERSITY OF VIRGINIA

Positions are available now for M.D. or Ph.D. scientists who wish to apply molecular, cellular or physiologic approaches to studies of human or experimental models or man. Support is available for U.S. citizens or permanent residents through an NIH-funded training program. A Ph.D. or board-eligibility in a medical or surgical specialty is required for appointment. Send letters of application to: Claude Desjardins, Center for Research in Reproduction, Medical Center Box 291, University of Virginia, Charlottesville, VA 22908. Telephone: 804-982-4310. Include curriculum vitae, reprints of publications, three letters of recommendation, and a short statement of research interests.

MEETINGS

FIFTH INTERNATIONAL CONFERENCE ON MOLECULAR BIOLOGY AND PATHOLOGY OF MATRIX

PHILADELPHIA, PENNSYLVANIA

SUNDAY, JUNE 19– WEDNESDAY, JUNE 22, 1994

Current research in the field of collagen and other extracellular matrix molecules will be presented by invited international experts. Poster sessions will also be held.

For information, please contact:
Darwin J. Prockop, M.D., Ph.D.
Jefferson Institute of Molecular Medicine
Jefferson Medical College
Thomas Jefferson University
Philadelphia, PA 19107
Telephone: 215-955-2025 or 955-4830
Scientific Opportunities in Mexico

The National Council for Science and Technology of Mexico announces the availability of academic positions in Mexican universities and research institutes all over the country.

Candidates in the following areas, among others, will be specially considered:

- Mathematics
- Statistics
- Computer Science
- Physics
- Chemistry
- Inorganic Chemistry
- Molecular Biology
- Biotechnology
- Oceanography
- Seismology
- Geophysics
- Mech. Engineering
- Electrical Engineering
- Electronics
- Archaeology

Appointments can be made at all levels depending on qualifications:

- Qualified candidates will possess at least a Ph. D or equivalent.
- Candidates are expected to do high quality research and to be responsible for the development of Mexican students, thus improving Mexican science.
- They should be fluent in English, although they are expected to be able to communicate in Spanish within a year.
- Applicants should submit a resume, including the list of their last international research papers, and their full address, telephone, and Fax numbers.

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Medical University of South Carolina
Chair
Department of Physiology

The Medical University of South Carolina College of Medicine has initiated a search for a Chairperson to lead the Department of Physiology. The Medical University is actively expanding its research base and clinical activities with the planned addition of two research buildings and an ambulatory care facility. Faculty positions and research space will be provided for growth in the Department. The academic environment provides outstanding opportunities for research initiatives in the Department, in the neurosciences, and in the newly developed interdisciplinary Hollings Cancer Center, Molecular and Structural Biology Center, and the Gaze Cardiac Center.

Applications and nominations should include a curriculum vitae, summary of current research activities, a description of teaching and administrative experience, and the names, addresses, and telephone numbers of three or more references. Applications will be reviewed until a satisfactory candidate has been chosen. Send replies to: A. Julian Garvin, M.D., Ph.D., Chairman, Physiology Search Committee, Dean's Office, College of Medicine, Medical University of South Carolina, 171 Ashley Avenue, Charleston, South Carolina 29425-2201.

The Medical University of South Carolina is an Equal Opportunity/Affirmative Action Employer.

NiH/NASA Center for Vestibular Research

Research Faculty and Postdoctoral Fellows with expertise in neurophysiology and/or biomechanics are sought to carry out research on vestibulospinal control of head position and posture in newly established Center for Vestibular Research supported jointly by NIDCD and NASA. A five-year plan of research involves the latest methods for single neuron recording and behavioral analysis in behaving animals, biomechanical analysis of human postural and head movement systems, and computer modeling ranging from neural network models to realistic biomechanical simulations.

Research opportunities are available in Chicago, IL, and Portland, OR with the investigators listed below:

- James F. Baker, Northwestern University - Neural and Behavioral analyses of linear vestibular-neck reflexes in alert primates. Emphasis will be placed on recording and modeling the patterns of neural activity that underlie these reflexes and their adaptive modulation.
- Richard D. Boyle, Oregon Health Sciences University - Morphophysiological studies of vestibulospinal neurons and vestibulo-ocular interactions in vestibulospinal neurons in alert primates.
- Jay M. Goldberg and Robert A. McCrea, University of Chicago - Interaction of head stabilization and gaze shifts in alert primates. EXPERIMENTS will include single neuron recordings and analysis of behavior before and during functional galvanic ablation of vestibular afferent inputs.
- Fay B. Horak and Robert J. Peterka, RS Dow Neurological Sciences Institute, Portland, OR - Role of otolith and semicircular canal information in coordination of human postural movements. This study will use behavioral recording and biomechanical modeling to characterize postural responses of normal and vestibular-deficient subjects.
- Jane M. Macpherson, RS Dow Neurological Sciences Institute, Portland, OR - Vestibulospinal contributions to postural responses and locomotion in awake, behaving cats.
- Barry W. Peterson, Northwestern University and Rehabilitation Institute of Chicago - Analysis of neural and biomechanical contributions of human head stabilization. Emphasis will be placed on understanding the contribution of vestibular otolith organs to stabilizing responses.

For further information, contact: Barry W. Peterson, Director, Center for Vestibular Research, Northwestern University Medical School, M211, Chicago, IL 60611, Northwestern University and other institutions in the Center for Vestibular Research are equal opportunity employers.
RESEARCH DIRECTOR

The Morton Arboretum invites applications for the position of Research Director. The Arboretum is a privately operated museum of woody plants, and is one of the premier arboreta in the world. It is located on 1500 acres in the western suburbs of Chicago, Illinois.

The Research Director, the senior administrator for research at the Arboretum, leads a diverse, balanced program of practical research related to woody plants, coordinated with the Arboretum's Collections and Education Programs. Outstanding, modern research facilities and significant institutional and experimental land support the Research Program. The Research Director is responsible for the 12-member Research staff and an annual operating budget in excess of $700,000.

Minimum qualifications include a Ph.D. degree in the plant sciences, demonstrated research ability and productivity, strong administrative and leadership skills and experience, and excellent people skills in interactions with the public, staff, and other professionals. Desired is a professional background and interest in woody plants, ecology, and horticulture.

Send curriculum vitae and a list of references to: Dr. Gerard T. Donnelly, Director, The Morton Arboretum, Lisle, IL 60532.

ASSISTANT OR ASSOCIATE PROFESSOR
COLLEGE OF PHARMACY
THE OHIO STATE UNIVERSITY

The Division of Pharmaceutics and Pharmaceutical Chemistry invites applications for a tenure-track position at the Assistant or Associate level. Applicants should have a Ph.D. degree in Pharmaceutics, Pharmaceutical Chemistry, Molecular Genetics, Molecular Biology, or a closely related field of biomedical research. Post-doctoral experience, a professional degree in pharmacy and teaching experience are desirable, with preference given to experience in a college of pharmacy. Successful candidates must have a demonstrated ability to conduct scientific research and to develop a student research program for appointment at the assistant level or must have an active, extramurally funded research program at the associate level. To complement existing strengths in the division, a research program is preferred at the cellular or molecular level in the areas of targeted drug delivery, gene therapy, controlled release including polymeric systems, and macromolecular drugs. The individual selected will be expected to teach at the undergraduate and graduate level, develop and maintain an extramurally funded research program, and participate in committee service. The Ohio State University offers an excellent research environment including interdisciplinary medical center complex, the Arthur G. James Cancer Hospital and Research Institute and the Comprehensive Cancer Center, The Biotechnology Center, and a Super Computer Center. The College of Pharmacy will expand into new research laboratories in July, 1994.
Applicants should provide a letter of application, curriculum vitae, the names and addresses of three references and a statement of research interests and professional goals. Please contact Dr. Jessie L.S. Au, Search Committee, College of Pharmacy, The Ohio State University, 500 West 12th Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era Veterans, disabled veterans and individuals with disabilities are encouraged to apply.

FACULTY POSITIONS
Department of Biology

The NYU Department of Biology is undergoing a major program of expansion and development. Two positions are presently available (subject to budgetary approval), in the areas of genetics and biochemistry. Outstanding candidates in other areas will also be considered. One appointment will be made at the assistant professor level (tenure track); one will be made to a senior, tenured position. Candidates will be expected to establish an active, externally-funded research program and to participate in the department's teaching activities.
Senior level appointments will be made to distinguished scientists with significant, funded research programs. Excellent start-up packages and newly renovated laboratory space are available. Application letter with curriculum vitae and names and addresses of three references should be sent to: Chairman of the Search Committee, Department of Biology, New York University, Room 1009, Main Building, Washington Square, New York, NY 10003.

NYU encourages applications from women and members of minority groups.

FACULTY POSITION IN BIOLOGY

The Department of Biology at Boston College is seeking an individual with a Ph.D. and at least 3 years of post-doctoral experience for a tenure-track position to be filled in the Fall of 1994. Boston College is a university with several undergraduate schools and colleges and over 14,000 students. The Biology Department has an active graduate program with approximately 50 Ph.D. and M.S. students and over 450 undergraduate majors.

The successful candidate will be expected to develop a strong extramurally funded research program in an area of eukaryotic cellular biology that complements our current research programs in: cellular and molecular biology; neurobiology and physiology; genetics, immunology, and developmental biology. Boston College is committed to excellence in teaching and the new faculty member will, in addition to teaching, be responsible for developing an area of expertise, be expected to contribute to our needs in another area such as: cellular biology, introductory biology, biochemistry or molecular biology.

The Biology Department has filled 8 tenure track positions within the past 10 years, including a Clare Boothe Luce Assistant Professorship, and expects to fill several positions in the next few years. Salary levels, start-up funds and laboratory resources are competitive with other research universities. Applications are encouraged from candidates with a proven record of accomplishment in research and supervision. Applicants should provide a letter of recommendation to be sent to: Search Committee, Department of Biology, Boston College, Chestnut Hill, MA 02167. An Equal Opportunity/Affirmative Action Employer.

New York University

The U.S. National Academy of Sciences (NAS) is seeking a scientific director to work at the Radiation Effects Research Foundation (RERF) in Hiroshima, Japan. A bi-national foundation equally funded by the governments of Japan and the United States and equally managed by representatives of the two countries, RERF conducts research on the health of survivors of the atomic bombings of Hiroshima and Nagasaki. Research includes studies in medicine, pathology, epidemiology and biostatistics, molecular biology, and cytology. RERF produces technical reports each year drafted in English by U.S. and Japanese scientists. The science editor assists authors with drafts during manuscript preparation and edits biomedical manuscripts to meet the style and format requirements of major journals. Assistants in editing and writing articles for quarterly international newsletter. To apply, send resume and the name, address, and E-mail address of two references (available) of three references in confidence to: NRC/RERF, NAS, 3420 Georgia Avenue, NW, Washington, DC 20016.
Meetings

Paris Conference on Apoptosis in AIDS and Cancer
December 2 - 4, 1993 - Senat (Luxembourg Palace), Paris, France
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Linda R. Gooding (Atlanta)
Marie-Lise Gougeon (Paris)
Mauro Piacentini (Rome)

List of Speakers will include
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Philip J. Barr (Richmond)
Carl Barrett (USA)
Dale Bredeesen (USA)
Ralph Buttyan (USA)
John Cidlowski (USA)
J. John Cohen (USA)
Amedeo Columbano (Italy)

PROGRAM
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• Molecular mechanisms of apoptosis and its control
• Apoptosis in the immune system
• Apoptosis in carcinogenesis and cancer therapeutics
• The role of apoptosis in aging

Applications are encouraged to submit abstracts for poster sessions:
Application Deadline: November 10, 1993

For further Information and Application Forms contact:
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Tel: 33 (1) 45 70 38 62 Fax: 33 (1) 45 70 30 78

Niagara University
ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology of Niagara University invites applications for two tenure track research and teaching positions available beginning August 1994. Postdoctoral experience is desirable for both positions.
(1) Developmental Biologist Ph.D. and ability to teach advanced courses in embryology-developmental biology, classical and molecular genetics, and/or histology.
(2) Microbiologist Ph.D. in Microbiology with ability to teach courses in microbiology, bacteriology, environmental microbiology and immunology.
The Department of Biology is committed to excellence in undergraduate education, and teaching at the introductory and advanced levels is expected. In addition, the candidate is expected to develop an individual research program involving undergraduate students. Start-up funds and departmental resources are available for the successful candidate. Collaboration with local research and industry groups are also encouraged. Salary is competitive, and will be commensurate with the candidate’s experience. Application should demonstrate exceptional teaching and research and should include curriculum vitae, three (3) letters of reference, and a summary of current and future research plans. Review of applicants will begin on January 3, 1994.
Send to: Dr. Carol R. Sweeney Chairperson Department of Biology Niagara University, Box 2032 Niagara University, NY 14109

Assistant/Associate Professor - Agronomist/Weed Management

This is a twelve-month, tenure track, faculty position located at the Southern Experiment Station in Waseca with tenure held in the Department of Agronomy and Plant Genetics, St. Paul. Research will focus on, but is not limited to, cropping system research including weed management systems for Southern Minnesota that have an impact on Cornbelt agriculture. The appointee will be responsible for developing local project leadership and multidisciplinary investigations examining cultural, biological, mechanical, and chemical control of weeds in sustainable crop production systems. Active advising of graduate students is expected. Ph.D. degree in agronomy or a closely related field with experience in weed science required. Research closely related to production agriculture or pest management with particular emphasis on weed management. Experience and training in conducting field crop agronomic production research directed toward solving crop and weed management problems desired. Demonstrated involvement in technology transfer and on-farm research. Minimum of two years of post-graduate experience desired. Send a letter of application, graduate transcripts, curriculum vitae, and a one-page summary of career goals in the context of this position; and have letters of references sent by three referees by December 15, 1993 to: Dr. Gary W. Randall, Chair, Agronomist Search Committee, University of Minnesota, Southern Experiment Station, 1101 West Elm, Waseca, MN 56093-1926. Tel: (507) 835-3620.

The University of Minnesota is committed to the policy that all persons shall have equal access to its programs, facilities, and employment without regard to race, color, creed, religion, national origin, sex, age, marital status, disability, public assistance status, veteran's status, or sexual orientation.

MEMORIAL UNIVERSITY OF NEWFOUNDLAND

FACULTY OF MEDICINE
MOLECULAR BIOLOGY

Applications are invited for one, and possibly two, tenure track positions as Assistant Professor of Molecular Biology within the Division of Basic Medical Sciences. Applicants should possess a Ph.D. or equivalent and relevant post-doctoral training and will be expected to develop and maintain independent, externally funded research programmes. The Division of Basic Medical Sciences consists of approximately 45 scientists with strong research groups in cardiovascular physiology, human genetics, immunology, molecular biology and neurosciences. The molecular biology group has existing strengths in cancer research, virology, human genetics and developmental biology. The modern, well equipped laboratories of the Faculty of Medicine are housed adjacent to the General Hospital in the Health Sciences Centre on the campus of Memorial University.

Applicants should submit their curriculum vitae and a brief statement of research interests and future plans, by December 15, 1993, and arrange to have three letters of reference forwarded to:

Dr. R.S. Neuman
Associate Dean of Basic Medical Sciences
Faculty of Medicine
Memorial University of Newfoundland
St. John’s, Newfoundland, Canada
A1B 3V6

Memorial University is committed to employment equity. In accordance with Canadian immigration requirements, this advertisement is directed to Canadian citizens and permanent residents in the first instance, but all qualified candidates are encouraged to apply.

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SPEAKERS: F. Arcamone, Italy; P. Arisio, Upjohn; D. Boger, Scripps; C. Cantor, Boston University; D. Cook, Isis; W. Denny, Auckland; C. Edwards, Gene

COURSES AND TRAINING


ANNOUNCEMENTS

LEUKEMIA RESEARCH FOUNDATION GRANTS

The Leukemia Research Foundation, Inc. announces funds are available to support research in the field of leukemia. The goal of the grant program is to support new investigators. Preference will be given to applicants proposing new lines of investigation. Currently two types of grants are being funded; research grants, and postdoctoral fellowships. Grants and fellowships are for a one-year period, and may be renewable for a second year. DEADLINE FOR RECEIPT OF COMPLETED GRANT APPLICATIONS IS FEBRUARY 15, 1994. Research Grant Policies: (1) Eligibility is restricted to investigators who are staff members of a university, hospital, or a non-profit research institute. The applicant must be less than five years beyond the end of training at the time of the proposed starting date of the grant award. (2) Maximum budget request is $35,000. The funds may not be used for salary support of the principal investigator, Postdoctoral Fellowship Policies: (1) Maximum budget request is $20,000. The funds usually are used to support the fellow's salary. (2) Eligibility is restricted to postdoctoral trainees with an M.D. or Ph.D. degree. The fellow must have no greater than three years of postdoctoral training (excluding medical residency) at the time of the proposed starting date of the grant award. For further information and applications, contact: Hollis R. Brownstein, Chairman, Medical Advisory Committee, Leukemia Research Foundation, Inc., 899 Skokie Boulevard, Suite L114, Northbrook, IL 60062; Telephone: 708-480-1177; FAX: 708-480-1417.

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