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POSITIONS OPEN

ANATOMIST. The Department of Anatomy, Chicago College of Osteopathic Medicine, invites applications for a tenure-track position at the rank of ASSISTANT PROFESSOR. Applicants must have a Ph.D. or equivalent, and a minimum of 2 years of postdoctoral experience. Teaching responsibility is primarily in neuroanatomy, but participation in gross anatomy and histology is also required. It is expected that the successful candidate will develop an independent research program capable of attracting extramural funding. Interested applicants should submit a curriculum vitae, a statement of research interests and the names of three references to: Teresa Dombrowski, Ph.D., Associate Professor, Department of Anatomy, Chicago College of Osteopathic Medicine, 555 S 31st Street, Downers Grove, IL 60515. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR ASSEMBLATION COLLEGE

The Division of Natural Sciences of Assumption College invites applicants for a tenure-track position at the assistant professor level beginning in September 1992. Candidate must have a Ph.D. in biological science with emphasis in cellular/molecular biology and a strong commitment to undergraduate teaching. The teaching focus will be molecular genetics and cell biology and include biology for nonmajors. Applications, including curriculum vitae, undergraduate and graduate transcripts, and three letters of reference should be sent to: Dr. Patricia S. Reiser, Biology Search Committee, Assumption College, 500 Sallibury Street, Worce- ter, MA 01615, by 31 January 1992. Applications received after this date may receive consideration. There are no in-house applicants. Assumption College is a Catholic liberal arts college committed to excellence in undergraduate education. An Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOLOGY

Tenure-track position at Hamline University to teach cell biology, biochemistry and nonmajors genetics. Applicants should have the Ph.D. and be strongly committed to undergraduate teaching and collaborative research. Send curriculum vitae, three letters of recommendation, and a statement of teaching philosophy by 1 February 1992 to: Dr. Timothy J. Johnson, Chair, Department of Biology, Hamline University, St. Paul, MN by 15 January 1992. An Affirmative Action/Equal Opportunity Employer. Minorities and women are encouraged to apply.

ASSISTANT PROFESSOR, BIOLOGICAL SCIENCES/CENTERS. Tenure-track position, beginning Fall 1992. Teach plant systematics and courses in field biology for majors and nonmajors, including a summer course at our Outdoor Education Center in the Adirondack Mountains. Ph.D. required. Applicants are expected to develop a research program involving undergraduates which complements current interests in our department. Submit curriculum vitae, transcripts of graduate work, three letters of reference, reprints of selected publications, and statements of teaching and research interests by 25 February 1992 to: Dr. Timothy J. Johnson, Chair, Search Committee, Department of Biological Sciences, SUNY College at Cortland, P.O. Box 2000, Cortland, NY 13045. SUNY Cortland is an Equal Opportunity/Affirmative Action Employer.

APPLICATIONS AND ENVIRONMENTAL MICROBIOLOGIST. The Division of Biological Sciences at the University of Montana invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to start in August 1992. Teaching responsibilities include undergraduate courses in introductory microbiology and applied and environmental microbiology and a graduate course in microbial ecology. Research responsibilities include extramural support and supervision of M.S. and Ph.D. students in the areas of bioremediation, food, water, agricultural or industrial microbiology. Ph.D. required. Applicants are expected to have a Ph.D. or equivalent degree with postdoctoral experience preferred, teaching experience desired. Send curriculum vitae, statement of research goals, and three letters of reference to: Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Review of candidates begins 1 December 1991 and will continue until position is filled. Affirmative Action/Equal Opportunity Employer.

APPLICATIONS AND ENVIRONMENTAL MICROBIOLOGIST. The Division of Biological Sciences at the University of Montana invites applications for a tenure-track position at the ASSISTANT PROFESSOR level to start in August 1992. Teaching responsibilities include undergraduate courses in introductory microbiology and applied and environmental microbiology and a graduate course in microbial ecology. Research responsibilities include extramural support and supervision of M.S. and Ph.D. students in the areas of bioremediation, food, water, agricultural or industrial microbiology. Ph.D. required. Applicants are expected to have a Ph.D. or equivalent degree with postdoctoral experience preferred, teaching experience desired. Send curriculum vitae, statement of research goals, and three letters of reference to: Search Committee, Division of Biological Sciences, University of Montana, Missoula, MT 59812. Review of candidates begins 1 December 1991 and will continue until position is filled. Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR OF BIOCHEMISTRY

The Chicago College of Osteopathic Medicine seeks an individual with a Ph.D. in biochemistry or a related field to fill a tenure-track position at the ASSISTANT PROFESSOR level. The successful candidate will have a strong interest in and ability to teach biochemistry to medical students and to undergraduate students in pharmacy and other allied health fields. Postdoctoral research experience is not required, but preference will be given to applicants that can participate in departmental research programs involving amino acid transport and metabolism or early embryogenesis. Development of an independent research program in one of these or a related field is also expected. Send curriculum vitae, a list of telephone numbers of three references, and descriptions of research interests and teaching philosophy to: Dr. Lon J. Vinek, Department of Biochemistry, Chicago College of Osteopathic Medicine 555 S 31st Street, Downers Grove, IL 60515. An Affirmative Action/Equal Opportunity Employer.

BIOCHEMISTRY/SPHINGOLIPID METABO- LISM. Position available for a tenured or non tenure-track ASSISTANT PROFESSOR to study role of sphingolipids in regulating cell behavior. App- plicants should have a Ph.D. in biochemical or biological sciences. Experience in lipid biochemistry, enzymology, cell culture, assays of leucocyte function, mechanisms of tumor promotion/carcinogenesis, nutrition and cancer, metabolism regulation and signal transduction. Submit curriculum vitae and three letters of reference to: Dr. A. H. Merrill, Biochemistry, Rollins Research Center, Emory University, Atlanta, GA 30322. Deadline: 1 March 1992. Equal Opportunity Employer.

ENTOMOLOGIST, ASSISTANT PROFESSOR. Twelve-month tenure-track position to conduct and develop applied and basic research in host- plant resistance in rice crops. Successful candidate is expected to establish a strong educational and research program, direct graduate students, and collaborate with scientists at outlying research stations. A Ph.D. in entomology or a related discipline is required. Submit in writing philosophy or curriculum vitae. A strong interest in biochemistry desirable. Salary is commensurate with qualifications and experience. Send a letter of application, résumé, transcripts, list of publications (including select reprints) statement of research interests and career goals, and four references to: Dr. Thomas J. Riley, Chair, Search Committee, Department of Entomology, Louisiana State University, Baton Rouge, LA 70803. Telephone: 504-388-1634. Fax: 504-388-1643. Deadline for receipt of application is 2 March 1992. Affirmative Action/Equal Opportunity Employer.

PSYCHONEUROIMMUNOLOGIST UNIVERSITY OF TEXAS MEDICAL BRANCH (UTMB)

The Department of Psychiatry and Behavioral Sciences is searching for candidates for a position at the ASSISTANT PROFESSOR level. We are looking for an independent scientist to collaborate with an established, multidisciplinary group in studying the interactions between the nervous system and immunity. The applicant should have a Ph.D., or equivalent degree with postdoctoral experience. Preference will be given to individuals with molecular biology experience in neuroendocrinology and cytokines, neuroimmunology, or behavioral disorders. Primarily, the candidate will be expected to pursue research with an active research program; but clinical participation, dependent upon the individual's qualifications and interests, may be possible. Women and minorities strongly encouraged to apply. Applicants should submit full curriculum vitae, career research interests, three recent reprints, and the name of three references to: Dr. Eric M. Smith, Chairman Psychoneuroimmunology Committee Department of Psychiatry and Behavioral Sciences University of Texas Medical Branch Galveston, TX 77550. Equal Opportunity/Affirmative Action Employer, M/F. H/V. UTMB hires only individuals authorized to work in the United States.
The Department of Biology, Villanova University, invites applications for TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS to begin with the fall semester 1992. Successful applicants will teach and advise undergraduate and graduate students and are expected to develop an active research program. Candidates with teaching and postdoctoral research experience are encouraged to apply.

QUANTITATIVE EVOLUTIONARY BIOLOGIST. This position is supported in part by the Undergraduate Biology Science Education Initiative of the Howard Hughes Medical Institute. We seek a broadly trained person who can assist in accomplishing the program's objective of improving quantitative skills of students pursuing the biological sciences. The successful candidate will participate in general biology and other courses such as genetics or evolution. Applicants' research interests should be in theoretical population genetics, evolutionary morphology, behavioral ecology, neuroethology and plant ecology.

ANIMAL PHYSIOLOGIST. We seek an organizational physiology specialist with an interest in the teaching of a two-semester human anatomy and physiology course and other courses in the applicant's specialty such as comparative physiology. The successful candidate's research interests will complement existing strengths in neurophysiology, endocrinology and cell biology.

Applicants should send a statement of teaching and research interests and goals, complete curriculum vitae including a list of publications, and transcripts of all undergraduate and graduate work. In addition, applicants should arrange to have three letters of recommendation sent. All materials should be addressed to either the Graduate Committee, Department of Biology, Villanova University, Villanova, PA 19085. In order to assure consideration, an application must be complete by 15 January 1992. Villanova University is an Augustinian-related Roman Catholic institution and is an Affirmative Action/Equal Opportunity Employer.

DEPARTMENT OF BOTANY UNIVERSITY OF TORONTO ASSISTANT PROFESSOR IN APPLIED ECOLOGY Applications are invited for a tenure-track position in applied ecology in the assistant professor level ranging from 1 July 1992. We are seeking applicants whose research interests are in one or more of the following areas: biodiversity and plant conservation, pollution ecology, agricultural ecosystems, and climate change or agricultural ecosystems.

The successful applicant will be expected to establish an active research program, demonstrate good teaching ability, which includes contributing to courses in terrestrial field biology, and to participate in developing interdisciplinary programs in teaching and research. Further information may be obtained from Ms. A. A. Schafer at the address given below. A statement of research and teaching interests and three letters of recommendation should be received no later than 31 January 1992 by Dr. J. A. Heibeck, Chairman, Department of Botany, University of Toronto, 25 Willcock Street, Toronto, Ontario, Canada M5S 3B2. Telephone: 416-978-3537; FAX: 416-978-5878.

The University of Toronto encourages both women and men to apply for this position.

ENVIRONMENTAL BIOLOGIST, Ph.D., ASSISTANT PROFESSOR, tenure track, September 1992. Contingent on state funding. Preference given to candidates with active, environmentally oriented research programs in areas related to environmental biology. Teaching responsibilities: undergraduate courses, and participation in the graduate program. Send curriculum vitae, statement of research interest, and three letters of reference to: William Mechling, Biology Department, Towson State University, Towson, MD 21204. Applications by 15 February 1992. Equal Opportunity Employer. Women and minorities are encouraged to apply.

ASSOCIATE/ASSOCIATE PROFESSOR Applications are invited for a tenure-track assistant/associate professorship available immediately in the Division of Toxicology of the Department of Pharmacology and Toxicology, Indiana University School of Medicine. Applicants should have completed a Ph.D. and have postdoctoral experience in either analytical chemistry, clinical chemistry, or forensic/clinical toxicology. While the primary responsibility of this position is to develop and direct the clinical toxicology laboratory, the successful candidate will also be expected to share in the teaching of graduate and medical students, direct the future development and expansion of the clinical toxicology laboratory, and participate in the development of externally funded research programs involving toxicology. Application materials closing date for acceptance of applications is 17 January 1992. Applications should be sent to: Genetic/Developmental and Cell Biology, Room 597 Life Sciences Addition, University of California, Berkeley, CA 94720. Early applications are encouraged.

The University of California is an Affirmative Action/Equal Opportunity Employer. We especially invite women and under-represented minorities to apply.
Excellent opportunities for training in molecular biology are now available with leading researchers at the National Institutes of Health.

**Molecular Genetics of Tumor Suppression**

W. Marston Linehan, MD

The molecular genetics of tumor suppressor genes in genitourinary malignancy are under investigation in order to identify and clone the gene associated with sporadic and familial kidney cancer. In addition, the molecular genetic abnormalities associated with prostatic carcinoma are being characterized. Surgery Branch (OE-1), NCI, Building 10, Room 2B47.

**Molecular Immunogenetics**

Dinah Singer, PhD

Molecular mechanisms which regulate the expression of genes of the major histocompatibility complex are being studied. Current efforts are focused on the DNA sequence elements and their specific binding factors which establish tissue specific levels of MHC gene expression. Additional studies are underway to analyze the hormonally determined levels of MHC expression as a means of investigating the molecular basis of autoimmune disease. Experimental Immunology Branch (OE-1), NCI, Building 10, Room 4B17.

**Molecular Neurobiology**

Andres Buonanno, PhD

Transcription regulatory elements which modulate N-methyl-D-aspartate (NMDA) receptor gene expression during neural development, or in response to cellular interactions, will be studied. Functional properties of NMDA and non-NMDA receptors are determined following their expression in oocytes and transfected cells in conjunction with Dr. M. Mayer's laboratory. Repression by electrical current of the transcription of MyoD family genes during skeletal muscle innervation is also being studied. Laboratory of Developmental Neurobiology (OE-1), NICHD, Building 36, Room 2A-21.

**Molecular Neurobiology**

David Goldman, MD

Tryptophan hydroxylase gene expression in mammals and its role in regulating serotonin production and various behaviors are being studied through the use of modern molecular biology techniques. Background in molecular biology (gene expression, cloning, transfections, and transgenic animals) and biochemistry (enzyme assay and detection) is highly desirable. Laboratory of Neurogenetics (OE-1), NIAAA, ADAMHA, Building 31, Room 1B56.

**Recombinant Toxins and Molecular Therapeutics**

Ira Pastan, MD

New recombinant toxins are being developed for the treatment of cancer and AIDS. Current studies focus on designing new recombinant toxins and determining how these toxic proteins act to kill their target cells. Applicants should have some experience in either molecular biology or protein chemistry. Laboratory of Molecular Biology (OE-1), NCI, Building 37, Room 4E16.

**Transgene Expression**

Heiner Westphal, MD

Transgene expression in the developing mouse is currently being explored. Extensive experience in the development of transgenic animals, as well as experience in molecular cloning and basic molecular biology, is required. Applicant must be U.S. citizen or permanent resident. Laboratory of Mammalian Genes and Development (OE-1), NICHD, Building 6, Room 338.

**Additional Postdoctoral Fellowship Opportunities**

Those interested in learning about other postdoctoral opportunities may request a copy of the "Postdoctoral Research Fellowship Opportunities Catalog" by contacting the NIH Office of Education, Building 10, Room 1C29. Telephone 301-496-2427.

If you hold a PhD, MD or equivalent degree and would like to be considered for one of these positions, please send a cover letter, Curriculum Vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
ASSISTANT/ASSOCIATE PROFESSOR OF ANATOMY/HISTOLOGY

Applications are invited for tenure-track positions. The department is responsible for teaching histology and anatomy to dental and graduate students. Applicants must have Ph.D. degree or equivalent and demonstrate the ability to obtain extramural funds. Preference will be given to candidates with demonstrated ability to obtain outside funding. Applicants should submit a letter of application, curriculum vitae, and three letters of recommendation to: Dr. Robert E. Berson, Department of Anatomy and Cell Biology, Texas College of Osteopathic Medicine, 3800 Camp Bowie Boulevard, Fort Worth, TX 76107-3599 TCOM is an Equal Opportunity/Affirmative Action Employer. Females, minorities, and persons with disabilities are encouraged to apply for any TCOM vacancy for which they are qualified.

HUMAN NUTRITIONISTS

The Department of Food Science and Human Nutrition at Iowa State University seeks ASSISTANT OR ASSOCIATE PROFESSORS for two tenure-track positions in nutrition. The selected individuals are expected to participate in the undergraduate and graduate program teaching programs of the department and to develop independent, extramurally funded research programs that will complement the interdisciplinary program of the Center for Designing Foods to Improve Nutrition. The center houses a human metabolism laboratory as well as outstanding analytical and animal care facilities. Candidates should have a Ph.D. degree and be expected to develop clinical examination or basic human nutritional sciences. Candidates should have the ability to interact effectively with other scientists in areas representing the full spectrum of nutrition-related life science area or the M.D. is required. Teaching and postdoctoral research experiences are preferred. Initial funding is available, especially for those who use molecular or cellular approaches. Iowa State University is an Equal Opportunity/Affirmative Action Employer. Women, minority, and persons with disabilities are encouraged to apply. Submit a letter of application, curriculum vitae, and names and addresses of at least three references to: Dr. Murray L. Kaplan, Chair of the Search Committee, Department of Food Science and Human Nutrition, Iowa State University, Ames, IA 50011.

DERMATOLOGY FACULTY POSITION

Department of Dermatology at the University of Minnesota is seeking a faculty member. This position is available at the rank of tenure-track ASSISTANT or ASSOCIATE PROFESSOR, or tenured ASSOCIATE PROFESSOR depending on qualifications and experience. Responsibilities include resident supervision, clinical teaching, developing and teaching medical students and residents, and participation in clinical activities. Qualifications include demonstrated involvement in skin-related research at cellular or molecular levels: effective teaching; evidence of writing in peer-reviewed journals; demonstrated interest in immunology of dermatology fungus infections. The successful candidate will be expected to have a minimum of 6 years of professional experience. Salary and benefits are competitive. Application deadline: 31 December 1991. Please send curriculum vitae or inquiries to: Mark V. Dahl, M.D., Search Committee Chair, Department of Dermatology, University of Minnesota, 517 East 14th Street, Minneapolis, MN 55455.
REQUEST FOR APPLICATIONS

New Therapies for the Treatment and Cure of Cystic Fibrosis

The National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK), the National Heart, Lung and Blood Institute (NHLBI) and the Cystic Fibrosis Foundation (CFF) invite investigator-initiated research applications to develop and characterize new therapeutic approaches for the treatment and ultimate cure of cystic fibrosis (CF).

Research areas include but are not limited to:

- Development of viral and nonviral delivery systems to achieve gene therapy for CF;
- Identification of cell types that are appropriate targets for gene therapy;
- Characterization of the regulatory mechanism which confers stable and efficient gene transfer into CF cells;
- Evaluation of the safety issues associated with the development of gene therapy;
- Development of pharmacological interventions based upon knowledge of the basic defect and function of the CFTR protein;
- Development of therapeutic strategies involving CFTR protein.

Research approaches must be directly relevant to cystic fibrosis. Applications must be submitted to the NIH. Proposals which are judged meritorious but are not funded by the NIH will be considered for support by the CFF.

NIH support will be provided as grants-in-aid. CFF support is available for up to two years.

The deadline for letters of intent is Jan. 17, and for applications is Feb. 21, 1992. For the full text of the RFA, contact Judith Fradkin, M.D., Chief, Endocrinology & Metabolic Diseases Branch, NIDDK, Westwood Bldg, Rm. 603, Bethesda, Md. 20892 or Susan Banks-Schlegel, Ph.D., Director, Asthma and CF Program, NHLBI, Westwood Bldg, Rm. 6A15. For information about CFF award, contact Robert J. Beall, Ph.D., CFF Executive Vice President for Medical Affairs, 6931 Arlington Road, Bethesda, Md. 20814.

Head of Department in Pharmaceutical Research—New Technologies

The Biology Department is one of four units within our Department New Technologies of Pharmaceutical Research. It is committed to maintaining and further developing key technologies of molecular biology and protein chemistry in order to provide effective and state-of-the-art methodological support to nonclinical R&D, and to engaging in molecular biological research in support of nonclinical R&D as well as independent research to uncover mechanistic principles and to identify novel targets for potential therapeutic intervention.

The successful candidate will possess an M.D. or a PhD in Chemistry or in a Life Science; have at least 12 years' professional experience in molecular biology, including a 4–5 years' experience as group or department head; have a strong background in key methodologies of molecular biology, with a record of internationally recognized achievements in the biosciences, notably in molecular biology; have an interest in interdisciplinary approaches to biological and therapeutic problems; be capable of motivating other scientists and provide strong scientific and organizational leadership. Experience in the pharmaceutical industry would be an advantage, but is not mandatory.

While you will be reporting to the Head of New Technologies, you are expected to interact closely with research units of biophysical and chemical disciplines in New Technologies as well as with interdisciplinary research units of the Preclinical Research Department of Pharmaceutical Research in Basel, with its main focus on Infectious Diseases, Cardiovascular Diseases, Diseases of the Central and Peripheral Nervous System, and Diseases of the Skin.

The salary is fully competitive with comprehensive benefits, including relocation assistance. Interested principals may direct their complete application documentation to our personnel department, quoting reference Science 109/91/Grä.

F. Hoffmann-La Roche Ltd.,
CH-4002 Basel, Switzerland.

We are an equal opportunity employer.
University of London
Department of Biochemistry and Biological Sciences
Wye College
AFRC Postdoctoral Research Associate
In PLANT MOLECULAR BIOLOGY AND BIOCHEMISTRY
(REDAVERTISMENT)

Applications are invited for a Postdoctoral Associateship to undertake research directed toward isolating and characterising the structural components of K+ channels from plant membranes. The position is funded for three years on the RA1A scale (£11,969 to £19,073 per annum plus superannuation and national insurance contributions) by the British Agriculture and Food Research Council. The work will involve DNA isolation and sequencing, protein expression, and/or protein purification. Some prior experience in these and related techniques will be an advantage. For further details, contact Dr. Charles B. Lewis on 813240 or Dr. Ian A. Blair on 813240.

D. UNIVERSITY OF HOWARD
DEPARTMENT OF BIOCHEMISTRY

The search has been extended for the position of Chairperson of the Department of Biochemistry, which will be established upon the merger of the existing Departments of Botany and Zoology on 1 July 1992. The new department will have 300 faculty members, 600 undergraduate majors, and 50 graduate students. Candidates should have a distinguished record of consistent and innovative research efforts. Current positions are advertised in the School of Medicine, the School of Veterinary Medicine, and the School of Dentistry.

Applications should be sent to: Dr. Donald A. McKenna, Chair, Biochemistry Search Committee, Office of the Dean, College of Arts and Sciences, Howard University, Washington, DC 20059. Howard University is an Equal Opportunity Employer.
On January 1st 1992 the Netherlands Institute of Ecology will be founded by the Royal Netherlands Academy of Arts and Sciences. The Institute will unite the following Academy Institutes: the Institute for Ecological Research at Heteren, the Delta Institute for Hydro-biological Research at Yerseke and the Limnological Institute at Nieuwersluis. These three former institutes will remain at their present locations. The preferred location for the Director will be at Nieuwersluis, 20 km. south of Amsterdam. The new institute will control a yearly budget of approximately 13 million guilders and employ about 200 personnel.

The Netherlands Institute of Ecology should achieve a leading position in fundamental and strategic ecological research, both nationally and internationally.

It is expected that the institutes, currently operating separately, will strengthen each other through cooperation and will expedite new ecological approaches. Further, a more appropriate use of their resources will be achieved.

The Institute seeks a

director

Netherlands Institute of Ecology (NIE)

Task: The NIE Director bears final responsibility for the operations conducted by the institute. The Director is expected to manage the institute’s scientific policy. The primary task of the NIE Director, during the initial years is the amalgamation of the three existing institutes into a single scientific and organisational unit, and the realisation of any changes this may require. For the development and implementation of the new organisation, the Director will have appropriate internal and external management consultants at his disposal.

Profile: • reputed scientist within the area of fundamental ecological research, with a wide experience in directing research programmes
• proven management qualities • strong conceptual and strategic skills
• inspiring and communicative personality, matching creativity with patience and diplomacy • candidates should be prepared to learn the Dutch language within 2 years after being appointed.

Salary: the salary for this position has a maximum of 13.190 guilders gross per month.

Location: preferably Nieuwersluis.

Information: further information can be obtained from the Chairman of the selection committee, Prof. J. Joosse (tel. 31 20 5482914, fax 31 20 6429202), or the Director of Administration of the Royal Netherlands Academy of Arts and Sciences, Dr. P. van ’t Klooster (tel. 31 20 5510781, fax 31 20 6204941).

Written applications, including a curriculum vitae and a list of publications, should be sent within 4 weeks after the appearance of this advertisement to the Board of the Royal Netherlands Academy of Arts and Sciences, attn. Head of Personnel and Organisation, P.O. Box 19121, 1000 GC Amsterdam, The Netherlands.

The Academy is an equal opportunity employer.
APPLICATIONS AND NOMINATIONS ARE INVITED FOR

PROFESSOR AND CHAIR
DEPARTMENT OF PATHOLOGY
COLLEGE OF MEDICINE
UNIVERSITY OF ALABAMA
PATHOLOGIST-IN-CHIEF
THE NEW YORK HOSPITAL

We seek an experienced, innovative physician-scientist who has an extensive background in experimental medicine and pathology and who has a strong interest in the education of medical and graduate students. The new chair will have the opportunity to recruit faculty and develop new programs. Applications should include a complete résumé and the names, addresses and telephone numbers of three references. Please send replies by 31 January 1992 to:

Dr. Ralph L. Nachman, Chairman
Pathology Department
The New York Hospital-Cornell Medical Center
525 East 68th Street, Room F-433
New York, NY 10021

The New York Hospital and Cornell University Medical College are Equal Opportunity/Affirmative Action Employers. Women and minorities are encouraged to apply.

NATIONAL INSTITUTES OF HEALTH (NIH)
CHIEF
DEVELOPMENTAL THERAPEUTICS

The National Institute of Allergy and Infectious Diseases (NIAID) is seeking candidates for Chief, Developmental Therapeutics Branch, Division of Acquired Immunodeficiency Syndrome, Bethesda, Maryland. The chief is responsible for daily scientific management of an extramural basic research program that provides essential support for various aspects of the discovery and preclinical development of drugs as potential therapies against HIV, related retroviruses, and other opportunistic infections associated with the acquired immunodeficiency syndrome (AIDS). In addition to working with academic and nonprofit research institutions, branch staff also assist biomedical and pharmaceutical firms in the evaluation of therapeutic agents in cell culture and animal models through contract resources. Incumbent supervises a staff of 70 scientists and professionals. Applicants should possess a Ph.D. or equivalent degree, and should have demonstrated ability to work with a variety of public and private organizations as well as staff and resources from multiple disciplines. This is a GM-15 position with a salary range of $61,643 to $80,138 per annum. Applicants should send copies of curriculum vitae and be able to complete Federal Employment Application (SF–171) by 27 December 1991 to: Dr. Margaret L. Johnston, Associate Director, Basic Research and Development Programs, Office of Acquired Immunodeficiency Syndrome, 6003 Executive Boulevard, Room 2C07, Bethesda, MD 20892. Telephone: 301-496-0637; FAX: 301-443-6674. U.S. citizenship required. NIH is an Equal Opportunity Employer.
Research Opportunities
Drug Metabolism/Pharmacokinetics

The continued expansion of our Central Research facilities at Groton, Connecticut has created a need for qualified PhD and BS/MS research scientists in our Drug Metabolism Department.

We are seeking PhDs with relevant experience in the areas of pharmacokinetics and drug metabolism. You will interact in a project area with a multidisciplinary team including chemists, biologists and clinicians where pharmacokinetics and drug metabolism input is essential to the discovery and development of new drugs. Will work with some of the most advanced equipment and support systems available. Publication of original research encouraged. A PhD or the equivalent in Pharmacology, Pharmacokinetics, Biochemistry, Pharmaceutical Chemistry or related discipline is required. Postdoctoral training or employment including practical experience with bioanalytical methods and biotransformation of drugs is highly desirable. Must be creative and possess superior interpersonal and communication skills.

If you have a BS or MS, you will be responsible for the development and utilization of analytical chromatographic and RIA methods for monitoring drugs and metabolites in biological samples; isolation and identification of metabolites utilizing instrumental methods; collection of biological samples, and use of in vivo and in vitro techniques; utilization of electronic data systems for acquiring and processing data. You should possess a BS or MS degree or the equivalent in Chemistry, Biochemistry, or the biological sciences and have an interest in the analysis, disposition, and metabolism of drugs.

These positions offer a superb professional environment in an attractive southeastern Connecticut shore area, complemented by a competitive salary/benefit/relocation package. Please send resume and description of research interests to: Lorraine C. Corr, Supervisor Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

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PROFESSOR AND CHAIRPERSON
DEPARTMENT OF MICROBIOLOGY
BOSTON UNIVERSITY SCHOOL OF MEDICINE

The Boston University School of Medicine invites applications for the position of Chair, Department of Microbiology. The candidate should hold an MD, or PhD, and have an established record of creative research, a commitment to Medical and Graduate School education, and proven leadership and administrative abilities. Particular consideration will be given to applicants having research interests related to AIDS, but strong applicants from other fields will be considered.

The deadline for receipt of applications is February 1, 1992. Send curriculum vitae and list of references to: Michael F. Holick, PhD MD, Microbiology Search Committee, Boston University School of Medicine, 80 E. Concord Street, M-1013, Boston, MA 02118.

Boston University is an Affirmative Action and Equal Opportunity Employer

MOLECULAR GENETICIST

POST-DOCTORAL POSITION

National Institute of Diabetes and Digestive and Kidney Diseases
Phoenix, Arizona

Full-time post-doctoral research position for an M.D. or Ph.D. (preferably with some years of relevant experience) at the Clinical Diabetes and Nutrition Section. The project involves genetic analyses of obesity related phenotypes in the Pima Indian population.

The candidate is expected to work independently, as well as in close collaboration with other investigators studying the genetics of non-insulin dependent diabetes.

Send curriculum vitae, three letters of reference, and a summary of current research activity to:

Eric Ravussin, Ph.D.
Clinical Diabetes and Nutrition Section
National Institutes of Health
4212 North 16th Street, Room 541
Phoenix, Arizona 85016

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Peak Performance:
It's not just in our products, it's in our people.
the results of these experimental programs to meet business and new product design objectives. 5-10 years of experience in a Cardiovascular area, preferably in the study of venous diseases, and a PhD in Biomedical Engineering or Physiology required. A Master's combined with substantial experience in the area of venous diseases will be considered. Solid communication and presentation skills are essential.

We offer a competitive salary, an excellent benefits package including medical/dental insurance, a matching savings investment plan, pension, and tuition reimbursement, as well as exceptional growth opportunities.

QUALIFIED candidates should forward their resume to Bob Simons, The Kendall Healthcare Products Company, 158 Hampshire Street, Mansfield, MA 02048. An equal opportunity employer.

KENDALL
Where results get rewarded.

HUMAN GENETICIST
Molecular Genetics of Disease and Genome Technology
Assistant, Associate or Full Professor

Roswell Park Cancer Institute seeks applicants who have demonstrated research and funding excellence in human molecular genetics. This tenure-track position requires establishing a vigorous, independent, grant-supported research program; directing graduate research; and participating in teaching graduate courses in the applicant's area of interest. Preference will be given to those involved in the molecular characterization of human inherited diseases, including cancer, and the development of human genome technology. Active participation in program projects focusing on the molecular genetics of disease and genome mapping will be encouraged. Academic appointments will be in the Roswell Park Division, State University of New York at Buffalo. Competitive rank, salary, start-up funds and space will be commensurate with qualifications. Salary will be provided in full by the State of New York.

Roswell Park is a National Cancer Institute-designated comprehensive cancer center. The successful applicant will join a dynamic faculty that has recently begun a significant expansion at both the research and clinical level. The Department of Human Genetics is an active research department with extensive interactions with researchers in other departments with modern molecular biology programs. There are excellent opportunities for collaboration with the clinical departments at Roswell Park and with researchers and clinicians at the State University of New York at Buffalo. Buffalo, a Western New York city between Lakes Erie and Ontario, has the cultural amenities of a large city within minutes of a rural setting.

Please send curriculum vita, a brief description of research interests and three references to: Thomas B. Shows, Ph.D., Chairman, Department of Human Genetics, Roswell Park Cancer Institute, Elm and Carlton Streets, Buffalo, New York 14263.

DARTMOUTH COLLEGE
ENVIRONMENTAL STUDIES PROGRAM
SENIOR FACULTY APPOINTMENT

Dartmouth College is seeking a Chair for the Environmental Studies Program. The appointment will be at the ASSOCIATE OR FULL PROFESSOR level, depending upon the qualifications of the candidate. Anticipated start date is September 1992. Responsibilities as chair do not necessarily have to be assumed immediately.

Candidates must have an outstanding scholarly record, with an active research program in some field of natural science and evidence of interest in the broader societal or public implications of their work. In addition, candidates must be able to direct and participate in a broadly based interdisciplinary teaching and research program.

Applications should be sent to: Chair, Environmental Studies Search Committee, Dartmouth College, 337 Murdock Center, Hanover, NH 03755. The search committee will begin to read applications on 2 January 1992.

Dartmouth College is an Equal Opportunity/Affirmative Action Employer.
An opportunity...

LECTURER
DEPARTMENT OF ANATOMY

Teaching: The department provides courses for students in the Faculties of Medicine, Science, Dentistry and Veterinary Science and for students of Human Movement. The appointees will contribute to the teaching of gross anatomy to medical and dental students and to science and medical students in the subjects of histology, embryology or cell biology.

Qualifications: Applicants should hold appropriate tertiary qualifications in a branch of science relevant to the broad field of anatomy.

Research: The appointees must actively participate in research either by establishing a laboratory, or by joining one of the research groups in the department. Current research in the department is in four main fields: human cardiovascular disease, reproductive biology, neurobiology and movement studies.

Research facilities of the department include well-equipped laboratories in histology and histochimistry, electron microscopy, image-analysis, cell culture, biochemistry, molecular biology, neurophrophysics and human movement studies. In addition, departmental funds will be available for the applicant to start a research program. After 1992 the major funding of the department must be obtained from other sources such as the NHFlMEC and ARC.

For further information contact the head of the department, Professor Gordon R. Campbell; Telephone: +61 7 360-2722; FAX: +61 7 360-1295.

Appointment: This position is tenurable. The successful applicant will be required to take up duty as soon as possible. The salary range for a lecturer is $40,000 to $47,150 per annum (to $48,688 per annum from 29 July 1992).

Closing date: 29 January 1992. Applications quoting Reference No. 46591 must be forwarded to: The Director, Personnel Services, The University of Queensland, Qld 4072, Australia.

Equal opportunity in employment is university policy.

PENN STATE UNIVERSITY
BIOLOGY DEPARTMENT
SIGNAL TRANSDUCTION IN PLANTS

We invite applications for a tenure-track FACULTY POSITION in the area of plant signal transduction, starting fall 1992. Researchers studying second messengers, mutants in signaling pathways, or reception of and response to environmental stimuli are especially encouraged to apply. The appointee is expected to establish a strong research program and have a commitment to excellence in undergraduate and graduate teaching. Postdoctoral experience is highly desirable. Submit curriculum vitae, statement of research and teaching interests, and three letters of support to: Search Committee, 208 Mueller Laboratory Box X572, Pennsylvania State University, University Park, PA 16802. Review of applications will begin 8 January 1993 and continue until the position is filled.

An Affirmative Action/Equal Opportunity Employer, women and minorities are encouraged to apply.

FACULTY POSITION IN BIOCHEMISTRY

Applications and nominations are invited for a tenure-track faculty position in the Department of Biochemistry, Purdue University. Preference will be given to individuals whose research emphasizes molecular biological approaches which could be applied to the plant sciences or related fields of study. Candidates must have postdoctoral training, a strong research record, and be capable of developing and continuing a vigorous research program.

The individual selected for this position will participate in the instructional program of the department which encompasses undergraduate, graduate, and medical curricula.

Curriculum vitae, names and addresses of three individuals who can supply letters of reference, and a twopage summary of research interests are required for an application. The screening of applications will continue upon receipt of applications and continue until the position is filled.

Search Committee
Purdue University
Department of Biochemistry
1153 Biochemistry Building
West Lafayette, IN 47907-1153

Purdue University is an Affirmative Action/Equal Opportunity Employer.

6 DECEMBER 1991
The University of Scranton, an independent Jesuit university, invites applications for two tenure-track biology faculty positions. One position in neuroscience involves teaching an upper division neuroscience course, and the other in general biology and general physiology courses. Each position will require a Ph.D. in neuroscience, and the successful candidate will have experience teaching at the university level and have a commitment to student learning and research. **FACULTY POSITION UNIVERSITY OF CHICAGO DIVISION OF THE BIOLOGICAL SCIENCES** The Department of Pharmacological and Physiological Sciences at the University of Chicago is seeking applications for FACULTY APPOINTMENTS for a tenure-track position. The successful candidate for this position is expected to have a Ph.D. and/or M.D. degree(s) or equivalent experience and has demonstrated the capability of attracting funds for her/his own research program. The position involves teaching and supervision of the research of undergraduate and graduate students, and the successful candidate will be expected to maintain an active research program. **POSITIONS OPEN NEUROSCIENCE—PHYSIOLOGY** The University of Scranton, an independent Jesuit university, invites applications for two tenure-track biology faculty positions. One position in neuroscience involves teaching an upper division neuroscience course, and the other in general biology and general physiology courses. Each position will require a Ph.D. in neuroscience, and the successful candidate will have experience teaching at the university level and have a commitment to student learning and research. **JUNIOR FACULTY POSITION** The Eleanor Roosevelt Institute, a nonprofit biobehavioral research institute, invites applications for a junior faculty appointment. Candidates must have a Ph.D. or M.D. and 2 to 5 years of postdoctoral experience. Evidence of both research productivity and potential for development of an independent research program will be strongly considered. Applicants will be expected to receive departmental jobs within the next 2 years and to complete their Ph.D. degree by 1994. **UNIVERSITY OF HONG KONG STAFF TUTORSHIP IN EXTRAMURAL STUDIES** Applications are invited for a post of Staff Tutor in the Department of Extramural Studies. Applicants should hold a doctorate and have experience in teaching at the graduate level. **POSITIONS OPEN POSTDOCTORAL POSITIONS TRANSCRIPTIONAL REGULATION IN ENDOPLASMIC RETICULUM CARDIOLOGY DIVISION VANDERBILT UNIVERSITY SCHOOL OF MEDICINE** Postdoctoral positions are available for candidates with a Ph.D. or M.D. degree. Applicants for both positions must have completed training by 1992 and thereafter. The successful candidate will have demonstrated the capability of attracting funds for her/his own research program. The Department of Pharmacological and Physiological Sciences at the University of Chicago is seeking applications for FACULTY APPOINTMENTS for a tenure-track position. The successful candidate for this position is expected to have a Ph.D. and/or M.D. degree(s) or equivalent experience and has demonstrated the capability of attracting funds for her/his own research program. The position involves teaching and supervision of the research of undergraduate and graduate students, and the successful candidate will be expected to maintain an active research program. **POSTDOCTORAL POSITION PHYSICAL chemistry of lipid-DNA interactions. A position is available for research on the structural and thermodynamic basis of sequence specificity of the interactions of proteins, peptides and drugs with DNA using high-resolution quantum mechanical and thermal perturbation (perturbation footprinting) techniques. Candidate must have a background in biochemistry or physical chemistry. Send letter of interest and references to Robert MacGregor, Department of Medical Chemistry, 781 S. University of Illinois at Chicago, Chicago, IL 60680-6998. The University of Illinois at Chicago is an Equal Opportunity Employer.**
THE CHINESE UNIVERSITY OF HONG KONG (founded 1963) offers comprehensive programmes up to PhD level in the Humanities, Business Administration, Science, Medicine, Social Science, Education, Engineering and Architecture. Current student enrolment is 9,300 full-time equivalent, which will expand to 11,500 by 1994-95. The University is very active in promoting research and consultancies and liaising with industry and the business sector worldwide. Both English and Chinese are used in teaching and administration.

Applications are invited for Lectureships in Biochemistry
Applicants should have a relevant higher degree (preferably Ph.D. degree) with sufficient research and teaching experience to indicate significant accomplishment as well as outstanding promise. Established skills in neuroscience or food science or immunology will be an advantage. The appointees are expected to assume duty in September 1992.
Annual Salary
HK$308,120–350,700 by 2 increments BAR
HK$371,520–516,480 by 7 increments
(approx. exchange rate: US$1=HK$7.8; £1=HK$13.9)
Salary will be commensurate with qualifications and experience.

Conditions of Service
The University offers a competitive remuneration package. For superannuable appointment, benefits include leave with full-pay, contributory superannuation scheme (University 15%, appointee 5%), medical and dental care, education allowances for children, housing benefit for an appointee with annual salary of HK$329,880 or above (with appointee contributing 7.5% of salary towards the provision of housing). Appointment may also be made on fixed term contract which carries equivalent benefit including a contract-end gratuity (15% of basic salary) in lieu of superannuable benefits. The University may also consider more flexible terms for suitable candidates.

Application Procedure
Send full resume in duplicate, giving full particulars, as well as names and addresses of 3 referees, together with copies of qualification documents (in duplicate) and recent publications to the Personnel Section, The Chinese University of Hong Kong, Shatin, Hong Kong (Fax: (852) 603 5028) before January 31, 1992. Please quote the reference number 1025/092/91 and mark "Recruitment" on cover.

POST-DOCTORAL POSITION

National Institute of Diabetes and Digestive and Kidney Diseases
Phoenix, Arizona

A post-doctoral fellowship is available for a recent Ph.D. in biochemistry or related discipline to participate in studies of the mechanism of insulin resistance in man. Results of studies conducted in our laboratory suggest that abnormal regulation of skeletal muscle protein phosphatase (PP1) activity by insulin may be a primary defect responsible for insulin resistance and subsequent development of non-insulin dependent diabetes mellitus in humans. Current projects include studies of mechanisms of insulin regulation of PP1 activity and gene expression.

This position is funded through the NIH Intramural Research Training Program and has a starting annual stipend of $25,000 – $35,000, depending on length of previous post-doctoral experience.

Send curriculum vitae and letter of application to:
David Mott, Ph.D.
Clinical Diabetes and Nutrition Section
National Institutes of Health
4212 North 16th Street
Room 541
Phoenix, Arizona 85016

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U.S. Department of Energy
Office of Health and Environmental Research

**Human Genome**

DISTINGUISHED Postdoctoral Fellowships

Research Opportunities in Biology, Chemistry, Physics, Mathematics, Engineering, and Information Science

- Research related to Human Genome Program
- Tenable at various national and university laboratories
- Stipends $35,000
- Doctoral degree received after May 1, 1989
- U.S. citizens or permanent resident aliens eligible
- Deadline - February 1, 1992
- Information and applications:

*Human Genome Postdoctoral Fellowships*

Science/Engineering Education Division
Oak Ridge Associated Universities
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(615) 576-4805

**Colloquium Announcement**

**MASTERMINDING THE BRAIN**

January 17, 1992

A full day colloquium on brain receptor research and its role in understanding and treating addiction and behavioral disorders featuring a unique gathering of leaders in the field.

Presented by The Franklin Institute in conjunction with the presentation of the 1991 Bower Award and Prize for Achievement in Science to Solomon H. Snyder, M.D.

**Opening Remarks**

C. Everett Koop, M.D., former U.S. Surgeon General
Julius Axelrod, Ph.D., National Institutes of Health
Solomon H. Snyder, M.D., Johns Hopkins University

The Brain and Receptors

Perry B. Molinoff, M.D., University of Pennsylvania
Robert J. Lefkowitz, M.D., Duke University
Richard Axel, M.D., Columbia University
Paul Greengard, Ph.D., Rockefeller University
Anne B. Young, M.D., Ph.D., Harvard Medical School

Brain Receptors and Therapies

Seymour Kety, M.D., National Institute of Mental Health
Peter Whybrow, M.D., University of Pennsylvania
Eric R. Kandel, M.D., Columbia University
Charles O'Brien, M.D., University of Pennsylvania
Frederick K. Goodwin, M.D., NIAAA
Joseph Coyle, M.D., Harvard Medical School

For further information, contact:
Larry E. Tise, Ph.D., Executive Director
The Benjamin Franklin National Memorial
The Franklin Institute
20th Street at the Benjamin Franklin Parkway
Philadelphia, PA 19103
215.448.1329, FAX 215.448.1364

The Franklin Institute
POSTDOCTORAL POSITION available for a recent Ph.D. with strong skills in neurobiology and protein chemistry. The candidate will be experienced in either neuron and glia cell culture, neurite outgrowth, cell migration, extracellular matrix, proteoglycan or proteoglycan biochemistry [JCB 109, 2353 (1989); JCB 111, 2663 (1987) and the role of phosphorylation in the enzymatic mechanism of cytochrome P-450]. Project requires expertise in fluorescent and kinetic techniques. Skills in molecular biology optional. Send application and three letters of reference to: Dr. Ronald G. Gainer, Cell Biology and Molecular Genetics, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Telephone: 908-932-9881, or FAX: 908-932-1262. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available for study gene induction in response to environmental signals using molecular, genetic, and biochemical approaches. A focus of the group is the characterization of Oryx, a transcription factor regulated by oxidation and reduction [Science 251, 571 (1991)]. Background in molecular biology or inorganic chemistry desirable. Send curriculum vitae to: Dr. Gisela Storz, National Institutes of Health, Cell Biology and Metabolism Branch, National Institute of Child Developmental Health and Human Development, 9000 Rockville Pike, Building 18T, Room 101, Bethesda, MD 20892. NIH is an Equal Opportunity Employer.

POSTDOCTORAL POSITION. Available for research in developmental biology with an emphasis on gene regulation, development, and cell-cell interaction. The position requires expertise in molecular biology or biochemistry. Send curriculum vitae and names of three references to: Dr. L. E. Silberstein, University of Pennsylvania, Department of Pathology and Laboratory Medicine, 4201 Spruce Street, Founders 6D79, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity Employer.

POSTDOCTORAL POSITION available immediately at the University of California, San Francisco, for Ph.D. in chemistry or biochemistry for studies of the enzymatic mechanism of cytochrome P-450. Project requires expertise in spectroscopic and kinetic techniques. Skills in molecular biology optional. Send application and three letters of reference to: Dr. Edward S. Storz, Department of Biochemistry and Biophysics, University of Pennsylvania, San Francisco, CA 94121. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately at the University of California, San Francisco, for M.D., Ph.D., or M.D.-Ph.D. students with experience in cell and/or molecular biology. The successful applicant will be involved in the lab of Dr. Donald A. Epstein, Department of Pediatrics, University of California, San Francisco. Send curriculum vitae and names of three references to: Dr. Donald A. Epstein, University of California, San Francisco, CA 94143. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in NEURO-SCIENCE available immediately to study immediate early genes (Fos and Jun) and heat shock (HSP72 and GRP78) gene products. Experience in vivo and in vitro. Experience performing Northern, Western, and immunocytochemistry required. Ph.D. or M.D. in neuroscience or cellular biology required. Send curriculum vitae and names of three references by March 15, 1992 to: Department of Neurosciences, 812 B Street, San Diego, CA 92101. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOW Position available fall 1991, to investigate development of the mechanisms regulating catecholamine secretion in fetal adrenal medulla. Includes study of neurotransmitter receptors, signal transduction mechanisms and regulation of the expression of catecholamine biosynthetic enzymes. Experience in molecular biology is required. Candidate should be U.S. citizen or permanent resident. Applicants submit letter stating interest, curriculum vitae and names of three references to: C. Y. Cheung, Department of Reproductive Medicine (0802), University of California San Diego and San Diego Medical School of Medicine.

DOCTORAL PROGRAM IN MICROBIOLOGY AND MOLECULAR GENETICS seeks qualified candidates to study molecular genetics, virology, immunology, pathogenic microbiology, microbial biochemistry, biotechnology, and applied environmental and medical microbiology in a collaborative program between Rutgers, The State University of New Jersey, and the University of Medicine and Dentistry of New Jersey. Nine faculty from diverse research areas in these departments, research centers and institutes participate in the program to provide excellent research training and employment opportunities. Fellowships, assistantships and scholarships provide up to $15,000, and tuition to qualified students on a competitive basis. Contact: Dr. Alan D. Antone, Graduate Program in Microbiology and Molecular Genetics, Rutgers University, P.O. Box 231, New Brunswick, NJ 08903. Telephone: 908-932-9881, or FAX: 908-932-1262. An Equal Opportunity/Affirmative Action Employer.

GRADUATE AND POSTDOCTORAL FELLOWSHIPS IN REPRODUCTIVE SCIENCES

Pre- and postdoctoral fellowships are available for training in reproductive sciences at The University of Michigan. An interdisciplinary program involves 80 faculty in 13 different departments. Research areas include: protein hormone action; neuroendocrine regulation of cyclicity; endocrine rhythm; mechanisms of reproduction; mechanisms of gene expression; sexual development and puberty; and structure and function of steroid-secreting cells; hormonal regulation of follicular maturation; differentiation and aromatization; and corpus luteum function. Application materials must be received by March 1992. U.S. citizens and permanent residents are eligible. Application information and requirements for postdoctoral positions are available from: Dr. Thomas Landefeld, Program Coordinator, Reproductive Sciences Program, The University of Michigan, 1404 Taubman Center, Ann Arbor, MI 48109-0404. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

FASTER TEAM EFFORTS IN IMMUNOLOGIC SCIENCES AVAILABLE AT UNIVERSITY OF PENNSYLVANIA

The Program in Immunology and Molecular Biology is an interdisciplinary program involving 60 faculty in 15 different departments. Research areas include: protein hormone action; neuroendocrine regulation of cyclicity; endocrine rhythm; mechanisms of reproduction; mechanisms of gene expression; sexual development and puberty; and structure and function of steroid-secreting cells; hormonal regulation of follicular maturation; differentiation and aromatization; and corpus luteum function. Application materials must be received by March 1992. U.S. citizens and permanent residents are eligible. Application information and requirements for postdoctoral positions are available from: Dr. Thomas Landefeld, Program Coordinator, Reproductive Sciences Program, The University of Michigan, 1404 Taubman Center, Ann Arbor, MI 48109-0404. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

MOLECULAR AND POPULATION GENETICS OF HIGHER PRIMATES

The New York Consortium in Evolutionary Primatology (NYCEP), consisting of 22 faculty from City University of New York, Harvard Medical School, New York University, The American Museum of Natural History (AMNH), and Wildlife Conservation International (NTSZ), invites applications to join a team using molecular genetic techniques (FLP mapping, and kinetic and molecular analysis) to elucidate (1) the effects of behavior and demography on population structure of primates; (2) the evolution and phylogeny, and systems. The successful applicant will work primarily with either Dr. Don Meinick (Columbia University) or Dr. Clifford Wiley (New York University), for a year starting in September 1992. Applicants should have laboratory experience and the Ph.D. Salary and benefits are competitive. Please send a preliminary application, including curriculum vitae, a one-page statement of research interests, and names, addresses and telephone numbers of three references to: Dr. Eric Delson, Vertes, New York, NY 10024. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION in MICROBIOLOGY and MOLECULAR GENETICS

The Program in Immunology and Molecular Biology is an interdisciplinary program involving 60 faculty in 15 different departments. Research areas include: protein hormone action; neuroendocrine regulation of cyclicity; endocrine rhythm; mechanisms of reproduction; mechanisms of gene expression; sexual development and puberty; and structure and function of steroid-secreting cells; hormonal regulation of follicular maturation; differentiation and aromatization; and corpus luteum function. Application materials must be received by March 1992. U.S. citizens and permanent residents are eligible. Application information and requirements for postdoctoral positions are available from: Dr. Thomas Landefeld, Program Coordinator, Reproductive Sciences Program, The University of Michigan, 1404 Taubman Center, Ann Arbor, MI 48109-0404. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

FELLOWSHIPS IN MATHEMATICS and MOLECULAR BIOLOGY

The Program in Mathematics and Molecular Biology has graduate and postdoctoral fellowship support available. Current topics in the program include geometry, topology, and applications of combinatorics, DNA dynamics, and mapping functions and algorithms for DNA and protein structure prediction. Other areas will be considered. Fellowships can be held at any university or college in the United States. Deadline for applications: 1 February 1992. Women and minorities are encouraged to apply. Apply to: Dr. S. F. Costa-relli, FMB, 103 Donner Laboratory, University of California, Berkeley, CA 94720. E-mail: sylvia@violet.berkeley.edu.

C. H. BEST INSTITUTE

POSTDOCTORAL FELLOWSHIP

In diabetes research, molecular endocrinology, molecular biology, differentiation, reproductive biology, immunology, structure and function of membranes or lipid metabolism. Tenable in the Banting and Best Department of Medical Research for 2 years after 1 July 1992 with a competitive stipend available to new Ph.D. or candidates with less than 2 years of postdoctoral training by 30 June 1992. Send curriculum vitae, transcripts and three letters of reference, preferably before 15 January 1992, to: The Banting and Best Committee Chairman, Banting and Best Department of Medical Research, University of Toronto, Toronto, Ontario, Canada M5G 1L6.

THE MORRISON MEMORIAL POSTDOCTORAL FELLOWSHIP

The Department of Biochemistry, St. Jude Children's Research Hospital (SJCRH), is enlarging its research efforts in the area of the molecular and cellular biology of signal transduction. As part of a program by the Board of Governors has established a memorial fellowship in honor of Dr. Martin Morrison, the founding chairman of the Department. The members of the department are well equipped and offer recent Ph.D. or M.D. graduates the opportunity to participate in energetic multidisciplinary groups dealing with a range of basic and clinically oriented research. SJCRH offers a competitive stipend and annual review for reappointment. Current research programs within the department include:

- W. Y. Cheung: Regulatory properties and biological functions of Galmodalin, Ca2+--regulated enzymes and other Ca2+--binding proteins.
- J. N. Ihle: Mechanisms of hematopoietic stem cell growth regulation, differentiation and transformation.
- S. Jackowski: Cell cycle regulation of membrane phospholipid biosynthesis.
- C. Rock: Role of phospholipid-derived second messengers in growth factor action.

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

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

An Equal Opportunity/Affirmative Action Employer.
ASSOCIATE DIRECTOR—BIOLOGICAL MANUFACTURING

Wyeth-Ayerst Laboratories, a division of American Home Products, a Fortune 100 company, is a leading multinational ethical pharmaceutical, vaccine and nutritional manufacturer. Currently, we have an exceptional opportunity for an individual to direct operations for the manufacture of biological vaccines at our Marietta, PA facility. The qualified candidate will also coordinate activities with other departments and government agencies.

This position is the top level operational position in Biological Manufacturing at the plant level and reports directly to the Managing Director. Primary responsibilities include directing operations for the manufacture of biological vaccines and the resolution of manufacturing problems. The Associate Director interacts with government agencies and prepares documents for regulatory approval. A Ph.D. degree in biological science, preferably in microbiology, virology or molecular biology, is desired. A knowledge of protein chemistry, lyophilization and fermentation is preferred. We require experience, including some at the managerial level, in coordinating vaccine manufacturing activities with support groups and government regulatory agencies.

Other requirements include knowledge of:
- Vaccine manufacturing procedures and good manufacturing practices
- FDA regulatory requirements for biological products and for the development and licensing of new biologicals
- Aseptic processing and principles of process validation

Additional requirements include independent research requiring the analysis of problems, data and solutions. Good writing and communication skills are also essential.

We offer a competitive salary and an excellent benefits package. Qualified candidates should submit a resume, including salary requirements to: Personnel Section, Wyeth-Ayerst Laboratories, P.O. Box 304, Marietta, PA 15747. Equal Opportunity Employer, M/F/D/V responses encouraged.

TOXICOLOGIST

Applications are invited for a tenure-track position at the rank of Assistant, Associate or Full Professor. Applicants should have a doctoral degree and research and professional experience in toxicology or an appropriate related science. Postdoctoral experience is preferred. The successful candidate will be expected to participate in teaching and to develop an externally funded research program. The salary for this position is negotiable.

An individual is sought who will complement the interests of the other faculty and be involved in the immediate development of our toxicology program. Contribution to the department's training and research programs in occupational health and epidemiology is also desired. While any fundable research area in toxicology will be considered, the following areas are of primary interest:
- Mechanistic toxicology: Molecular/cellular mechanisms of toxicological interactions, including carcinogenesis
- Environmental toxicology: Molecular/cellular approaches to assessment of environmental exposure of animals or humans
- Predictive toxicology: Physiologically-based pharmacokinetics/pharmacodynamics and risk assessment

Send a CV, description of research and teaching interests and names and phone numbers of 3 references by January 15, 1992 to:

TOXICOLOGY Search Committee
Department of Environmental Health
Colorado State University
Fort Collins, CO 80523

NyU Medical Center

Associate Research Scientist

We have a Post Doctoral position available for Spring of 1992 in the lab of Dr. Claudio Basilio, Department of Microbiology. Areas of research presently being investigated are as follows:
- The mechanism of transformation of the K-FGF/Ast oncogene and its oncogenic potential in vivo.
- The interaction of K-FGF and other members of the FGF family of growth factors with their receptors.
- The regulation of expression of K-FGF and its role in development.
- Cloning and characterization of genes involved in cell cycle progression in animal cells.
- The regulation of expression of the Asparagine Synthetase gene by amino acid starvation, and the mechanism(s) by which amino acid deprivation leads to G1 arrest.

A background in Molecular Biology, Genetics, Biochemistry or Cell Biology is required. Salary is open.

If you're interested in investigating a great opportunity, send C.V. and names of references to Ms. Singh, Human Resources Dept., NYU Medical Center, 550 First Ave., New York, NY 10016. EOE, M/F.

National Institutes of Health

RESEARCH SCIENTIST/POSTDOCTORAL FELLOW
(Molecular Biologist)

The Laboratory of Cellular Development and Oncology, National Institute of Dental Research seeks an outstanding candidate with graduate education and/or experience in Pharmacology, Biochemistry or Molecular Biology for a senior postdoctoral fellowship position. Applicants should have at least 2 years postdoctoral training and research experience in signal transduction through G proteins and G protein-coupled receptors as well as signalling through non-receptors and receptor-tyrosine kinases.

Additionally, the applicant should be familiar with radioreceptor binding assays, in-vitro receptor radioligand binding, and in-vivo pharmacology. Experience with tissue culture techniques, including biological assays for mitogens and transforming genes, DNA recombination techniques including construction of cDNA libraries, construction of mutants and chimeric molecules and expression of cloned genes in mammalian cells using recombinant retroviral vectors. A substantial record of publications of original work in these areas is required. Starting salary will be commensurate with qualifications and experience. Interested candidates should submit a curriculum vitae, several reprints, summary of research interests and names of three references no later than January 17, 1992. Material should be sent to: Faye M. Harbort, Personnel Management Specialist, National Institute of Dental Research, National Institutes of Health, Bldg. 31, Rm. 2C23, 9000 Rockville Pike, Bethesda, MD 20892.

NIH is an Equal Opportunity Employer
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The recent opening of the new Glaxo Inc. Girolami Research Institute, located in Research Triangle Park, NC, represents Glaxo’s continued commitment to the discovery and development of drugs for unmet patient needs. We invite you to experience the challenges and accomplishments a future with us holds for you. The following opportunity is now available.

ASSOCIATE SCIENTIST

Selected individual will conduct research projects that involve the development of assay systems necessary to study therapeutic targets. Successful candidate will have experience with at least one of the following techniques: protein purification and characterization, ligand-receptor interactions, enzyme kinetics, cell culture, molecular biology, or immunocytochemistry.

Background must include a BS Degree with a minimum of 2-4 years experience or an MS with 0-2 years experience in chemical or biological disciplines. Candidate must be able to think independently, work with minimum daily supervision, and oversee the general maintenance of the laboratory. Excellent verbal and written skills are required.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site recreation and fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world-famous scientific, industrial, and academic community in Research Triangle Park, NC. Send your resume, including salary history, to: Human Resources Department, Job # 91278207-SC, Glaxo Inc., P.O. Box 13379, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please) An Equal Opportunity Employer M/F/H/V.

Glaxo Inc.

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Research Scientist - Population Modelling

AUS $42K to $56K + superannuation

Division of Fisheries - Hobart, Tasmania, Australia

We are seeking an innovative scientist to lead research into the community and population dynamics of temperate Australian fish stocks to complement studies on the ecology and assessment of multi-species trawl fisheries. The appointee will play a major role in the development of these studies and in communicating results to industry and management.

You will need a PhD in quantitative zoology, fisheries biology or applied mathematics, a strong background in models of biological systems, and a superior record of innovative research.

For more information, contact Dr R Thresher by telephoning Aus (002) 206 222, fax (002) 240 530 or telex AA57182. The position is indefinite (tenured) and assistance with relocation costs is provided.

Applications should be addressed to: The Chief, CSIRO Division of Fisheries, GPO Box 1538, Hobart Tas 7001 Australia by 27 January 1992, quoting Reference Number FC91/8.

CSIRO IS AN EQUAL OPPORTUNITY EMPLOYER

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Molecular Mechanisms of Lymphocyte Migration

Senior Scientists

Hoffmann-La Roche has an established research team investigating leukocyte trafficking and its role in the inflammatory process. Our strong interdisciplinary program involves a commitment from many areas of research, including Molecular Biology, Hybridoma / Cell Biology, Protein Biochemistry / Crystallography, Carbohydrate Chemistry and Pharmacology. As part of our effort to expand our program, we are searching for three research scientists to investigate the role of cell surface adhesion molecules in lymphocyte migration.

Immunochemist

Investigate the role of adhesion molecules in lymphocyte trafficking in vivo; establish animal models of T cell-mediated autoimmune and inflammatory diseases; and evaluate the contribution of various adhesion molecules in the pathophysiology of these processes. Qualifications: PhD and postdoctoral training in Immunology or a related discipline with relevant experience in in vivo models. Please refer to Position KMS on c.v.

Molecular Biologist

Perform structure-function analysis of lymphocyte adhesion proteins and their ligands using gene cloning and expression techniques. Qualifications: PhD and postdoctoral training in Molecular Biology, Biochemistry or a related discipline with relevant experience in various prokaryotic and eukaryotic expression systems. Please refer to Position DBS on c.v.

Cell Biologist

Develop cell-based adhesion assays for studying the role of adhesion molecules in vitro; and generate monoclonal antibodies to lymphocyte adhesion molecules and their ligands. Qualifications: PhD and post-doctoral training in Cell Biology, Immunology, Biochemistry or a related discipline with relevant experience in cell-cell adhesion assays or the characterization of cell surface proteins. Please refer to Position BWS on c.v.

We are an international pharmaceutical company, offering competitive salaries, a generous bonus and benefits package and state-of-the-art resources enabling scientific discovery. For confidential consideration, please send your curriculum vitae, a letter outlining your research interests and your present salary to: Mrs. Eleanor Malone, Staffing and Employee Services, Department EM351, Hoffmann-La Roche Inc., Nutley, New Jersey 07110. We are an equal opportunity employer.
DIRECTOR OF TECHNOLOGY DEVELOPMENT
TULANE UNIVERSITY

The Director of Technology Development is responsible to the Vice President for Research/Graduate Dean for the overall management, supervision, and planning of activities which will promote the University's commercialization of intellectual property. In close consultation with the Vice President for Research/Graduate Dean and other key senior administrators, the Director is expected to develop and implement programs in order to create a comprehensive inventory of Tulane's intellectual property, identify promising technological developments and encourage their disclosure, undertake the protection of Tulane's intellectual property, either directly or in cooperation with outside counsel, and commercialize this property through an aggressive licensing program. In addition, the Director will serve as the principal spokesperson with the University community in matters relating to the commercial value of research findings. To that end, the Director of Technology Development will take steps to keep faculty and staff fully informed about technology transfer opportunities and the procedures for taking full advantage of them.

Successful candidates must have a thorough knowledge of licensing agreements and other intellectual property practices and procedures. Candidates must also demonstrate a commitment to academic values and entrepreneurial desire, and have demonstrated the ability to effectively communicate with various internal and external constituencies. In addition, experience as an effective negotiator and consensus-builder within an academic, industrial or scientific setting is required. An earned master's degree, M.B.A., or an advanced degree in a scientific discipline is desirable, as well as prior experience at a research university or in an industrial or technical setting dealing with the application of research.

Applications and nominations will be accepted until January 1, 1992. For additional information, please phone Ms. Yvette Jones at (504) 865-5201. Send letter of interest, curriculum vitae and names and telephone numbers of three references to:
Search Committee for Director of Technology Development
Tulane University/Office of Human Resources
Uptown Square--200 Broadway, Suite 318
New Orleans, Louisiana 70118

Senior Scientists
Promega Corporation, a world leading biotechnology company, is currently looking for:

Protein Biochemist
You will develop assays and reagents for sale in the area of protein biochemistry, protein modification, and protein kinases and phosphatases. Ph.D. and extensive postdoctoral experience in assay development are required. Other requirements include determination of enzyme activities in the protein modification area, publications/presentations and experience in purification of at least two protein kinases/phosphatases; some experience with other enzymes.

Enzymologist
This position involves enzyme discovery R & D. You will design and implement experiments designed to identify, characterize, and modify novel enzymes useful for recombinant DNA applications, e.g., DNA and RNA polymerases, proteases, and transcriptases. Ph.D. and two years' postdoctoral experience in characterization of proteins with familiarity in all aspects of current protein biochemistry relating to composition, structure conformation, and function are required. Experience in protein engineering and molecular biology an asset. Knowledge of current protein biochemical literature and analytical methods and protein design are important.

We offer a competitive salary, comprehensive benefits, and a challenging, high-growth environment in our modern facilities. Send resume with references and salary history to: PROMEGA CORPORATION, HUMAN RESOURCES/RPG, 2800 WOODS HOLLOW ROAD, MADISON, WI 53711-5399. An Equal Opportunity Employer.

A NEW MATRIX
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SR. RESEARCH SCIENTIST
Central Nervous System Research

The Du Pont Merck Pharmaceutical Company is driven by creative and innovative science to help meet society's healthcare needs through the discovery of novel pharmaceuticals.

We currently have a position for a Cognitive Psychologist in the Central Nervous System Diseases Research Section. The ideal candidate will have a Ph.D. and be skilled in a wide variety of behavioral pharmacological techniques including operant procedures and should have a strong central nervous system pharmacology background. This position requires a flexible individual whose responsibilities will be to develop non-human models to evaluate therapeutic agents for the treatment of cognitive disorders. The ideal candidate should have at least 5 years' research experience in this field; industrial experience is a plus.

Our location, near Wilmington, DE, offers an attractive lifestyle with easy access to all the cultural, academic and recreational activities of the Eastern Seaboard. The Du Pont Merck Pharmaceutical Company can offer you an excellent compensation and benefits package. Qualified candidates should send a resume to: Manager, Professional Employment & Placement, The Du Pont Merck Pharmaceutical Company, Dept. CNS, Du Pont Experimental Station
E400/6220, Wilmington, DE 19880-0400. Equal Opportunity Employer M/F.
The Neuropharmacology Section of the Laboratory of Molecular and Integrative Neurosciences is seeking an individual to participate in ongoing studies on the regulation of neuropeptides and neurotransmitters in neural systems. Focus is on the molecular mechanisms regulating the expression of genes encoding opioid peptides and catecholamine synthesizing enzymes. Applicants must possess Ph.D. or equivalent and strong experience in neuropharmacology, neurochemistry or molecular biology. The candidate must have a record of demonstrated research productivity and the ability to carry out independent and collaborative research. For additional information, contact Dr. J.S. Hong at 919-541-2358. To apply, send Curriculum Vitae and the names of three references by February 7, 1992 to:

Carole Gregory (HNV45)  
NIEHS Personnel Office  
P.O. Box 12233  
Research Triangle Park, NC 27709

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THE SCRIPPS RESEARCH INSTITUTE

Ph.D. Programs  
- Macromolecular and Cellular  
  Structure and Chemistry  
- Chemistry

The Scripps Research Institute will admit 5-10 highly qualified students for the fall of 1992 to begin studies for a Ph.D. program integrating cell and molecular biology with structure and chemistry, and 5-10 students for a Ph.D. program in chemistry.

Candidates for these programs must have earned a bachelor's degree and have a strong background in biology and/or chemistry. Qualified applicants will be asked to visit the Research Institute for an interview. Financial support will be provided to all accepted students.

Individuals interested in applying to either graduate program should send a letter describing their scientific interests and goals, as well as a resume of their educational background to:

Dean of Graduate Studies, M86  
The Scripps Research Institute  
10666 North Torrey Pines Road  
La Jolla, CA 92037

These graduate programs are authorized by the California State Department of Education.

An Equal Opportunity Employer

Staff  
TRANSGENIC TECHNOLOGIST

The Ohio State Biotechnology Program is seeking a qualified individual to manage the transgenic animal facility and to provide technical guidance to researchers throughout the campus in generating transgenic animals. Candidates should have an M.S. or Ph.D. and a minimum of two years of experience in the field. Send curriculum vitae and three letters of reference to: Dr. Jeffrey N. Masters, Chairperson, Transgenic Technologist Search Committee, Ohio State Biotechnology Center, 206 Rightmire Hall, 1060 Carmack Rd., Columbus, OH 43210-1002. Screening of candidates will begin January 15, 1992.

THE OHIO STATE UNIVERSITY

Postdoctoral Research Staff Member

Cell/Molecular Biology

Lawrence Livermore National Laboratory, one of the nation's premier research and development facilities, has a challenging opportunity in its Biomedical and Environmental Sciences Division. Experience in cytogenetics, recombinant DNA technology, genome mapping, and/or flow cytometry desirable.

The research will involve the study of the organization of closely spaced sequences in interphase, (pro)metaphase, and replicating chromatin as well as the development of fluorescence in situ hybridization as a tool for genome mapping.

LLNL, affiliated with the University of California, offers outstanding research facilities, plus an excellent compensation and benefits package. Interested candidates, please contact: Dr. Barbara Trask, (510) 422-5706. Resumes should be forwarded to: Phil Harding, Biomedical Sciences Division, Lawrence Livermore National Laboratory, Dept. A92079BS, P.O. Box 5510, L-725, Livermore, CA 94550. An Equal Opportunity Employer.

University of California

Lawrence Livermore National Laboratory
OPENING

There are multiple positions open in different fields, including physics, chemistry, biology, and reproductive sciences. Each position has specific requirements, such as qualifications, experience, and deadlines for applications. For example, the position of Medical Physiologist at Indiana University School of Medicine Muncie Center requires a Ph.D. or M.D. degree and experience in the area of medical physiology. Applications are being invited for a Ball State University position, which is an Equal Opportunity/Affirmative Action Employer. Applications are due by January 15, 1992.

NATIONAL HEART, LUNG, AND BLOOD INSTITUTE (NIH)

The Laboratory of Cell Biology, National Heart, Lung, and Blood Institute, invites applications for a position as a COLLABORATIVE SCIENTIST, GS-12 (salary range: $40,000 to $50,000). The position involves work in the United States and should return to: Illinois Department of Employment Security, 401 South State Street—3 South, Chicago, IL 60605, Attention: D. Rule, Reference #V-IL-3963-R. No calls. Applications must be received by January 15, 1992.

HUMAN MOLECULAR GENETICIST

Marshfield Clinic is seeking applications for the position of SENIOR RESEARCH SCIENTIST as an expansion of the human genetics research program currently centered in the laboratory of Dr. James Weber. We are seeking an exceptional individual who will develop an outstanding, independent research program. The specific research area is open, although candidates with interests in the areas of cancer biology or development may be especially encouraged to apply. Candidates must possess a Ph.D. or M.D. degree and at least 2 years of postdoctoral experience. Successful candidates will be expected to develop a well-equipped laboratory, generate start-up funds, and be competitive for salary and benefits packages. Evaluation of applications will begin December 15, 1991, and continue until the positions are filled. For consideration, send curriculum vitae, a brief statement of research interests and the names of three references to: breast@scm.marshealth.com, Marshfield Clinic, Human Resources Department, 1000 North Oak Avenue, Marshfield, WI 54449. Equal Opportunity Employer, M/F/HV.

MEDICAL PHYSIOLOGIST

INDIANA UNIVERSITY SCHOOL OF MEDICINE MUNCIE CENTER FOR MEDICAL TECHNOLOGY BARGAINING UNIT POSTDOCTORAL FELLOWSHIP AT BALL STATE UNIVERSITY MUNCIE, INDIANA

Applications are being invited for a Ball State University tenured-track position, open in the area of medical physiology. The successful applicant will participate in team teaching medical physiology to first-year medical students and be expected to develop an active research program involving medical students. Applicants are expected to have postdoctoral experience, demonstrated research capability, and a commitment to excellence in teaching. Rank and salary will be commensurate with experience. Deadline for applications is 15 February 1992. Send curriculum vitae, a brief summary of research and teaching experience, and the names of three references to: Dr. Douglas A. Tripplett, Director, Muncie Center for Medical Education, Ball State University, Muncie, IN 47306.

Ball State University is an Equal Opportunity, Affirmative Action Employer and is strongly and actively committed to diversity within its community.

RESEARCH SCIENTIST, ORGANIC CHEMISTRY

Work involves synthesis and characterization of new water-based polymers with commercially useful properties. Requires Ph.D. organic chemistry and 2 years of experience in the job offerd or as a researcher or research associate. Must have excellent academic background with specific graduate experience in synthesis and characterization of polymers which are biodegradable or photo-degradable. Research abilities must be documented by publications. Forty hours per week, 9:00 a.m. to 5:00 p.m.; $1023.08 per week. Respond by resume to The Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123, Job Order #440391.

COURSES AND TRAINING

POSTDOCTORAL TRAINING PROGRAM IN THE CELLULAR/ MOLECULAR BIOLOGY OF AGING

Postdoctoral (Ph.D. or M.D.) positions are available for 2 years of specialized training in the methods and models of research on aging. This program is directed by Dr. James C. Seidler, Department of Physiology and Biophysics, College of Medicine, University of Pennsylvania (Drs. V. J. Cristofalo, E. Freidman, P. Phillips and J. Roberts), Thomas Jefferson University (Dr. L. B. Kitsikis), Sharp and Dohme Research Laboratories (Dr. W. W. Nichols), Temple University (Dr. N. Duker) and The Wistar Institute (Drs. D. Kritchevsky and E. Levine). Research emphases include: development of the human aging phenotype, analysis of long-lived human tissues, bioenergetic studies of the aging phenotype, and aging studies in human and animal models. Participants will have opportunities to apply their skills to studies of human aging in the areas of cancer, cardio-vascular disease, bone disease, and neurodegenerative disease. Participants will be expected to develop research programs leading to the preparation of a dissertation or thesis. Participants will be encouraged to publish their research results and to present their work at scientific meetings. Applications should be addressed to: Dr. Peter M. Weber, Director, National Institute on Aging, National Institutes of Health, Bethesda, MD 20892. Applications are due by January 15, 1992.

PROJECT BIOLOGIST: 2-year position starting January 1992. To design and conduct riparian studies related to flow fluctuations on the Snake River in southwestern Idaho. Minimum requirements are M.Sc. in ecological field; strong quantitative, analytical and communica- tion skills. Must be familiar with western riparian systems, work independently with leadership abilities. Salary of $29,000 plus full benefits. Send cover letter, curriculum vitae and three letters of recommendation to: By January 1992 to: Allan Ansell, Idaho Power Co., Environmental Affairs, Box 70, Boise, ID 83707.

REPRODUCTIVE SCIENTISTS

The Center for Fertility and Reproductive Research (CF-FAIR) within the Department of Obstetrics and Gynecology at Vanderbilt University School of Medicine, Nashville, TN 37232.

Vanderbilt University is an Equal Opportunity/Affirmative Action Employer.

TECHNICAL RECRUITMENT

1992

ASSISTANT DIRECTOR CLINICAL RESEARCH: Multi open positions for R.D.S, Ph.D.,s, all therapeutic areas. Salary: $80,000 to $120,000 plus incentives. PHARMACOKINETICS: Multi open positions for PK trainee for all therapeutic areas. B.S. to Ph.D. Salary: $50,000 to $85,000. FORMULATION SCIENTISTS: Formulators in all dosage forms in pharmaceuticals. Salary $50,000 to $80,000. ANALYTICAL/METABOLISM: B.S./M.S., with preparational/cilnical experience; multi openings with separation of bio-fluids. Salary: $20,000 to $25,000.

BIOSTATISTICIAN: Multi open nationwide M.S. to Ph.D. expansion openings. Salary: $45,000 to $90,000.

Call or send resume to:

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