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POSITIONS OPEN

ASSISTANT PROFESSOR

The Department of Biology, Utah State University (USU), Logan, Utah, is seeking a tenure-track assistant professor in biochemistry. Research involving current technologies on fungal pathogens relevant to agriculture in Utah is required. The position carries a teaching load of 3 courses per year, research responsibilities (three courses per year) that include mycology and introduction to plant pathology. Excellent in teaching and research is expected. Please send curriculum vitae, statements of research, and names of three references to: Dr. James Albers, Department of Biology, Utah State University, Logan, UT 84322–8000. The position will begin 1 October 1990. Applications should be received by 15 October 1990.

ASSISTANT/ASSOCIATE PROFESSOR

The Department of Physiology and Biophysics, University of Health Sciences/Chicago Medical School (UH/CM), invites applications for tenure-track assistant or associate professor positions. Candidates must have a Ph.D. or M.D. degree and an established research career in the general areas of neurosciences, neurochemistry, and/or neuroimmunology. Teaching responsibilities include: neuroscience and immunology. UH/CM is a 75-year-old private medical school affiliated with a major teaching facility located in the north suburbs of Chicago. The administration is committed to excellence in science. Outstanding modern laboratories are available and teaching responsibilities are moderate. Recruitment of women candidates are encouraged. Please send a description of research interests, curriculum vitae, and the names of three references to: Professor Richard Hawkins, Chairman, Physiology and Biophysics, UHS/CM, 3333 Green Bay Road, North Chicago, IL 60064.

ASSISTANT/ASSOCIATE PROFESSORS

PLANT-MICROBE INTERACTIONS

The Department of Plant Pathology and Microbiology at Texas A&M University seeks two new faculty with active research programs in molecular approaches to plant protection. Research oriented toward plant-microbe interactions and/or physiology is particularly desirable, but candidates with other interests will be considered. Successful applicants will be expected to participate in teaching at undergraduate and graduate levels and establish viable research programs funded by extramural sources. Postdoctoral experience or demonstration of independent research capability is required. Applications will be accepted until 1 October 1991. Apply by sending curriculum vitae, statement of professional goals and research interests, and three letters of reference by 1 October 1990 to: Dr. Clint Magill, Chair of Search Committee, Department of Plant Pathology and Microbiology, Texas A&M University, College Station, TX 77843.

The School of Natural Resources, The University of Michigan, is seeking to fill a full-time, 9-month, tenure-track position at a level of assistant/associate professor. Applications from candidates who will become the AACU/ACE PROFESSOR of international natural resource and environmental policy issues, institutions, and laws. Applicants should have a doctorate in natural resource policy, public policy, or political science or a law degree with a demonstrated research interest and ability in non-U.S. natural resource and environmental policy problems and their global implications. The successful candidate will be expected to pursue vigorous research programs in natural resource policy, including management, use, and conservation of earth resources. International experience is desirable. Applications should be submitted with curriculum vitae, statement of research interests, names of three references, and one description of teaching and research skills. Applications should be received by 1 October 1990 at: Dr. J. E. Crowfoot, Dean, School of Natural Resources, 3512 Dana Building, The University of Michigan, Ann Arbor, MI 48109–1115. Applications will be accepted until the position is filled.

The University of Michigan is a nondiscriminatory Affirmative Action Employer.

BIOSTATISTICIAN/EPIDEMIOLOGIST

The Sanders-Brown Center on Aging and the Department of Statistics at the University of Kentucky invites applications for a tenure-track faculty appointment at the ASSISTANT PROFESSOR level from biostatisticians and/or epidemiologists with research interest in Alzheimer's disease. The appointee will be expected to develop his/her own research program, be willing to participate in interdisciplinary research, and contribute to the teaching program of the Department of Statistics. An excellent start-up package is available. The Sanders-Brown Center is setting up the AID-funded model of Alzheimer's disease and has a separate, 40,000-square-foot building with excellent research facilities. A letter of interest, curriculum vitae, and names of three references should be submitted to: William R. Marksberry, M.D., or David W. Warkentin, Ph.D., Sanders-Brown Center on Aging, University of Kentucky, Lexington, KY 40536. Telephone: 606-257-3040. The University of Kentucky is an Equal Opportunity Employer.
ASSISTANT PROFESSOR IN PLANT MOLECULAR BIOLOGY AT OHIO STATE UNIVERSITY, COLUMBUS, OHIO

Applications are invited for a tenure-track position available beginning fall of 1991 at the assistant professor level in the Department of Biological Sciences. Candidates should have, or expect to complete, four or more years of postdoctoral experience, will be expected to develop a strong research program in plant molecular biology, and must be willing to contribute to the departmental coursework offerings. The successful candidate will be an active group of plant and molecular biologists and will have access to a wide variety of modern facilities with the department and the university. The individual is expected to hold a Ph.D. or equivalent degree, and must be able to develop and actively participate in a specific extension program. Application: 1 January 1991. Applicants are encouraged to fill qualifications and send curriculum vitae, a statement of research goals, and the names and addresses of three referees to:

Plant Molecular Biology Search Committee
The Ohio State University
Columbus, Ohio 43210

HARVARD UNIVERSITY
ASSISTANT PROFESSOR OF DEVELOPMENTAL AND NEURAL BIOLOGY

The Department of Cellular and Developmental Biology intends to make an appointment at the assistant professor level by mid-1991. Our laboratory covers a broad range of topics in cellular biology, developmental biology, neurobiology, and molecular genetics. We are seeking outstanding candidates in any of these fields. We are particularly interested in making an appointment in the areas of plant molecular biology, developmental genetics, and protein sorting. However, we will consider applicants in other fields as well. We strongly encourage applications from women and minority groups. Applications should include curriculum vitae, research statement, and a statement of current and future research plans. Complete applications and three letters of recommendation, solicited by the applicant, should be received no later than 1 October 1990 by: CDB Search Committee, Cellular and Developmental Biology, Harvard University, 16 Divinity Avenue, Cambridge, MA 02138. Telephone: 617-495-2327. Harvard University is an Affirmative Action/Equal Opportunity Employer.

DIRECTOR OF PROGRAM IN IMMUNOBIOLOGY, NORTHWESTERN UNIVERSITY

Qualified candidates are sought for the new position of director of Immunobiology at the Jean F.责任心 Luke Center for Experimental Immunology at Northwestern University Medical School. The immunobiology program is a newly developed interdepartmental effort designed to enhance research and training in immunobiology within Northwestern University as a whole with emphasis on the Medical School. With resources provided by both the Medical School and university administration, the new director of immunobiology will be expected to provide leadership in this effort, including the recruitment of new faculty. Administrative duties will be minimal and consistent with continuation of an active research program. To be considered for this position, a candidate must be recognized as a leader contributing in the area of immunobiology and must present plans for the further development of his/her own research program. The academic appointment at Northwestern University will most likely be in the Department of Microbiology-Immunology, although this is negotiable. Rank and tenure status will depend upon the experience and background of the appointee. Initiation of the appointment could be as early as 1 October 1990. Application should be received by 15 October 1990. Applications should be addressed to: Immunobiology Program Search Committee, Jean F.责任心 Luke Center for Experimental Immunology, Northwestern University Medical School, 330 East Chicago Avenue, Chicago, IL 60611. Northwestern University is an Affirmative Action/Equal Opportunity Employer. There is contingent upon eligibility to work in the United States.

PROFESSOR AND HEAD

PROFESSOR AND HEAD. To serve as the administrative and academic program leader of the Department of Poultry Science at the University of Pennsylvania. Qualifications include: (i) the Ph.D. or equivalent academic degree in poultry science or closely related field; (ii) in-depth knowledge of the land-grant university system; (iii) a significant period of academic experience in poultry science; and (iv) evidence of administrative and program leadership at the level of Assistant Director or other equivalent administrative positions. In addition, the candidate should demonstrate the ability to develop and actively participate in a specific extension program. Application: 1 January 1991. Applications are encouraged to meet qualifications and send curriculum vitae, a statement of research goals, and the names and addresses of three referees to:

Plant Molecular Biology Search Committee
The Pennsylvania State University
University Park, PA 16802. Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

UNIVERSITY OF CAMBRIDGE
ARTHUR BAFROU PRYOR VISITING SENIOR SCIENTIST

EARTH SCIENCE AND APPLICATIONS DIVISION

Applications are invited for the above tenable from 1 October 1990. Academic rank: £32,408. Further information from: The Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge, CB2 1TT, England. Applications should be sent with the names of two referees by 14 September 1990. The University follows an Equal Opportunities Policy.

JET PROPULSION LABORATORY/NASA VISITING SENIOR SCIENTIST

Applications are invited for tenable positions commencing 1 October 1990. Academic rank: £32,408. Further information from: The Secretary General of the Faculties, General Board Office, The Old Schools, Cambridge, CB2 1TT, England. Applications should be sent with the names of two referees by 14 September 1990. The University follows an Equal Opportunities Policy.

DIRECTOR, DEPARTMENT OF PHYSIOLOGY

A search is being opened for the position of the Department of Physiology at the University of New York (SUNY) Health Science Center at Syracuse, a strong department with a commitment to excellence in teaching and research. The new director is expected to continue that tradition and to enhance that commitment. Candidates must meet the academic requirements for appointment to the rank of professor (M.D. or Ph.D.) and have a distinguished history of relevant scholarly and research accomplishments. Applications from women and minorities are encouraged. Information should be sent to: Richard L. Cross, Ph.D., Department of Biochemistry and Molecular Biology, SUNY Health Science Center, 358 East Adams, Syracuse, NY 13210. Telephone: 315-464-5127. Review of curriculum vitae will begin 1 November 1990 and continue until the position is filled. Affirmative Action/Equal Opportunity Employer.

CHAIR, DEPARTMENT OF PHYSIOLOGY

Applications and nominations for the position of chair and professor of the Department of Physiology at The University of Texas Health Science Center at San Antonio (UTHSCSA) are invited. The department has 19 full-time faculty with diverse research interests including cellular, cardiovascular, respiratory, and neurophysiology, and the metabolic aspects of aging. The department has a well-supported predoctoral training program and has a history of excellence in training the graduate, medical, dental, and nursing schools. Candidates should have an active research program in a diverse area and commitment to training and research interests. Individuals should possess an internationally recognized record of research with experience in teaching and administration. Interested persons should send a letter of application, curriculum vitae, a brief statement of research interests, and names of three references. Telephone beginning 15 September 1990. Address applications, inquiries, and/or nominations to: David S. Papenmester, M.D., Physiology Chair Search Committee, Department of Physiology, University of Texas Health Science Center at San Antonio, 7703 Floyd Curl Drive, San Antonio, TX 78284-7750. UTHSCSA is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR, ANALYTICAL SEPARATION LABORATORY—ASSISTANT/ASSOCIATE RESEARCHER. Applications are invited for a Ph.D. or equivalent training and experience in theory, operation, and application of HPLC systems. The laboratory performs analyses of a wide range of compounds in biological materials including proteins, peptides, carbohydrates, nucleic acids, and complex sugars in collaboration with 10 to 12 investigators in the Reproductive Endocrinology Center, University of California, San Diego. More specifically, one of the major responsibilities is to train fellows and oversee use of the equipment. Ability to troubleshoot and maintain equipment and to develop novel separation and detection techniques, as well as isolation and characterization by gel electrophoresis, Western blotting, etc., also is highly desirable. Send curriculum vitae and names of three references to: Dr. Pentti K. Siitari, Department of Obstetrics/Gynecology, University of California, San Francisco, CA 94143-0556. UCSC is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

DIRECTOR, TROPICAL FRUIT AND VEGETABLE RESEARCH SERVICE. The U.S. Department of Agriculture (ARS), U.S. Department of Agriculture (USDA), Honolulu, Hawaii. Salary range: $59,216 to $76,982, commensurate with experience, plus 22.5% cost-of-living allowance. Requires Ph.D. level knowledge of entomology research. Prefer working knowledge of tethered fruit flies; skill in directing and coordinating long-range, multidisciplinary research; knowledge of control/eradication programs; knowledge of research administration/record management/budget planning; and experience in international research and development with diverse groups of people. Closing date for application is 28 September 1990. Request announcement and application instructions from: C. Lita Peterson, telephone: 301-868-344-3138, USDA, ARS, Personnel, Greenbelt, Maryland. Contact: Dr. William G. Chase, Jr., telephone: 415-559-6060, Pacific West Area Director, Albany, California, for technical information relative to position. An Equal Opportunity Employer.
Bristol-Myers Squibb Pharmaceutical Research Institute

Bristol-Myers Squibb Pharmaceutical Research Institute is continuing to expand our efforts in basic biomedical research. New research laboratories are currently under construction at our research headquarters in Princeton, New Jersey. More than at any time in the past, our commitment to basic biomedical research, both at the Institute and through our academic research alliances, has never been stronger. We are currently seeking candidates for the following positions:

Research Investigator

Virology

Participate in this research program elucidating mechanisms of viral gene regulation. The program focuses on the herpes virus group with the aim of identifying novel antiviral targets. Ph.D. required in addition to proven expertise in molecular biology/virology, cell culture, and protein biochemistry. Dept. #128A

Research Associates

Monoclonal Antibody Research

This candidate will assume a lead role in our monoclonal antibody laboratory which serves as one of the core groups in our Biotechnology section. We require a BS or MS and 3-5 years relevant experience that includes strong background in monoclonal antibody production and antibody based assays. Dept. #128B

Molecular Biology

Establish an in situ hybridization core unit to interact with ongoing basic research on molecular characterizations of oncogenes utilizing in situ hybridization, preparation of tissue sections and probes. Requires a BS or MS and a minimum of 1 year related research experience. Dept. #128C

For consideration, please forward your resume (including dept. code #) to: Bristol-Myers Squibb Pharmaceutical Research Institute, P.O. Box 4000, Princeton, NJ 08543-4000. An equal opportunity employer.

Environmental Openings

Battelle, Pacific Northwest Laboratory, one of the first companies committed to improving the environment, is finding real-life solutions to real-life problems. To help us continue, we need the following dedicated professionals:

Ecological Resources & Assessment

Technical Group Leader

This position requires a PhD in Plant Physiology, Environmental Chemistry, Ecology, or related area, and 5-7 years experience directing and working with interdisciplinary research teams, providing technical leadership to junior scientists, writing research proposals and scientific journal articles, and meeting schedules and budgets. Knowledge of radionuclide and contaminant movement, measurement, and environmental effects is desirable. Excellent interpersonal skills are essential.

Sr. Wetlands Ecologist

Research will include effects of Global Climate Change on freshwater wetlands/riparian zones, development of guidelines for wetlands construction, impacts of humans activities on wetland functional values, and identify energy linkages between terrestrial and aquatic habitats.

This position requires a PhD in Ecology, Limnology, Oceanography, or related area, as well as 8-10 years research experience in one or more of the areas described above. Successful applicant will hire additional staff as necessary, and provide technical leadership to a multi-disciplinary team.

Terrestrial Sciences

Research Scientist—Microbiology

Research will include determination of subsurface microbial distribution and function, microbial physiology and metabolism with emphasis on aerobic and anaerobic mechanisms of organic contaminant degradation and molecular approaches to strain improvement.

This position requires a PhD in Microbiology with an interest in basic and/or applied research as described above. Previous experience at the Post Doctoral level desirable.

Technical Group Leader—Microbiology

This position requires a PhD in Microbiology or related field with 8-10 years experience. Must have a sound scientific background as measured by peer reviewed publications or patent history and a demonstrated ability to manage complex interdisciplinary programs. Previous management experience preferred.

Technical Group Leader—Ecological Modeling

This position will develop and lead a multi-disciplinary team to model large-scale ecological processes. A research background emphasizing biosphere linkages, remote sensing, GIS model development, and/or the development of knowledge-based system models is desirable. This position requires a PhD in Ecology or a related field, with 10+ years experience.

To pursue these career opportunities, send/FAX vitae, college transcripts, and the names of three references to: Battelle, Pacific Northwest Laboratories, Dept. R25, P.O. Box 1406, Richland, WA 99352. FAX (509) 376-9099. Equal Opportunity Employer. U.S. Citizenship required.
Study Director

Microbial Threats to Health

The Institute of Medicine/National Academy of Sciences is seeking a study director for a study on Microbial Threats To Health. Responsibilities include planning study program, designing research methods; overseeing data collection and analysis; writing, editing and synthesizing report and background material; assisting in the selection of an expert scientific committee to provide direction for the study; and acting as liaison between public officials, sponsors and related organizations. Ph.D., M.D., or equivalent in area related to program activity required, and 3 or more years experience related to microbial biology, vaccine biology, infectious diseases, or the biology of pathogenetic organisms and vectors. Policy-making experience is highly desirable. Requires excellent organizational skills and written and oral communication skills. Must have demonstrated research, technical, and/or policy analysis capability. Preference in staff supervision, budget management, and ability to work effectively with committees also required. The Academy offers a competitive salary and an exceptional benefits package. Please send resume in confidence to:

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POSITIONS OPEN

ADDCITION RESEARCH CENTER
NATIONAL INSTITUTE ON DRUG ABUSE
ALCOHOL, DRUG AND MENTAL HEALTH ADMINISTRATION
NIDA/ADAMHA
U.S. PUBLIC HEALTH SERVICE
CLINICAL NEUROBIOLOGY LABORATORY CHIEF

Applications for the immediately available position of Chief, Neuroendocrinology/Immunology Laboratory, are encouraged. The laboratory chief plans, conducts, and supervises basic and clinical research on the involvement of the endocrine and immune systems in drug abuse and dependence. Candidate must have an M.D. or Ph.D. degree and more than 5 years of relevant research and supervisory experience. The salary range is $59,000 to $87,000. Send curriculum vitae and three letters of recommendation to: Jack E. Henningfield, Ph.D., Chief, Clinical Pharmacology Branch, NIDA Addiction Research Center, P.O. Box 5180, Baltimore, MD 21224.

U.S. citizenship is required. NIDA is an Equal Opportunity Employer. ADAMHA is smoke free and drug free.

UNIVERSITY OF CALIFORNIA, LOS ANGELES (UCLA)
NEUROSCIENCE
DIRECTOR, UCLA JERRY LEWIS NEUROMUSCULAR RESEARCH CENTER

The UCLA School of Medicine is seeking a new director for its Jerry Lewis Neuromuscular Research Center. The individual is expected to bring leadership in new areas of science fundamental to understanding broad aspects of nerve and muscle and the disease processes that affect them. Programs focused in molecular biology, immunology, or genetics with particular strengths relevant to understanding clinical neuromuscular diseases would be particularly attractive. The director will assume responsibility for the Jerry Lewis Center, an organized research unit on the UCLA campus reporting directly to the dean's office, with the members having appointments in one or more School of Medicine departments. This individual will be expected to promote the development of basic and clinical research programs and facilitate teaching and training in neuromuscular biology and disease. Interested applicants should forward current curriculum vitae to: Robert C. Collins, M.D., Chair, Search Committee, UCLA School of Medicine, Reed Neurological Research Center, 710 Westwood Plaza, Los Angeles, CA 90024-1769. UCLA is an Equal Opportunity/Affirmative Action Employer.

DIRECTOR

OF PEDIATRIC ENDOCRINOLOGY

The University of Minnesota, Department of Pediatrics, is seeking a director of the Division of Endocrinology. This is a senior position which has high profile in the Department of Pediatrics. The candidate should have leadership, clinical and research experiences necessary to direct an Endocrinology and Metabolism Program in a strong academically oriented department.

Qualifications: Candidate must have an M.D. degree. This position will be a tenured ASSOCIATE OR FULL PROFESSOR with the rank to be commensurate with years of experience and accomplishments. Candidate must have an active ongoing research program which has attracted national funding. Rank of associate professor requires professional distinction in research and writing and demonstrated effectiveness in teaching and advising. Rank of professor requires national reputation in research and evidence of leadership in candidate's professional field. Candidate must be approved by the Promotions Committee of the Department of Pediatrics and the Medical School.

Last date for receipt of application is 30 November 1990.

Applications and nominations (include names and addresses of three references) should be sent to:

Jack H. Oppenheimer, M.D., FACP
Chair, Search Committee
Head of Pediatric Endocrinology
University of Minnesota Medical School
Box 91, UMHC
515 Delaware Street, S.E.
Minneapolis, MN 55455

The University of Minnesota is an Equal Opportunity Educator and Employer and specifically invites and encourages applications from women and minorities.
POSITIONS OPEN

NUTRITIONAL SCIENCES DIRECTOR OF DIVISION UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN

Applicants for the position of director, Division of Nutritional Sciences, are being sought. The division has 48 faculty members from 11 departments and 6 colleges and offers the B.S., M.S. and Ph.D. in nutrition in nine specializations. The candidate will be expected to provide leadership to the program, to facilitate interdisciplinary research, and to maintain an active research program. Applicants should send a letter of application, résumé, and names and addresses of five references by 15 September 1990 to: Warren L. George, Chair of the Search Committee for the Director of Nutritional Sciences, University of Illinois, 451 Beaver Hall, 905 South Goodwin Ave., Urbana, IL 61801.

The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

HEAD DEPARTMENT OF FOREST RESOURCES

Provides: leadership in recruitment and development of faculty and staff; direction for instruction, research, and extension; and budget development and administration. Qualifications include: an earned doctorate; a record of scholarship in forest resources commensurate with the rank of professor; a strong concern for the maintenance of the broad spectrum of values society attaches to forest resources, and the processes by which these values are translated into policy and management; judgment in the quality of contemporary forest science; and the ability to administer programs in teaching, research, and extension. Send cover letter, curriculum vitae, and names of four references by 9 November 1990 to: Professor James N. Long, Department of Forest Resources, College of Natural Resources, Utah State University (USU), Logan, UT 84322-2515. Telephone: 801-780-2455. Position open until filled.

USU is an Affirmative Action/Equal Opportunity Employer.

VASCULAR BIOLOGIST, CARDIOLOGIST

Harvard's Department of Medicine at the Brigham and Women's Hospital is seeking a cardiologist with a strong interest and record of accomplishment in vascular biology to head the Section of Vascular Medicine in the Cardiovascular Division. Approximately 4000 square feet of new laboratory space is available. Candidate should have experience in obtaining independent, peer-reviewed research support; ability to direct a clinical vascular consultation service; and be eligible for appointment as an ASSOCIATE PROFESSOR of medicine at Harvard Medical School.

Please send curriculum vitae to: Dr. Eugene Braunwald, Brigham and Women's Hospital, 75 Francis Street, Boston, MA 02115.

Harvard University and Brigham and Women's Hospital are Affirmative Action Employers. Women and members of under-represented minorities are encouraged to apply.

COORDINATOR OF EXTERNAL RELATIONS

The Center for Compound Semiconductor Microelectronics of The University of Illinois at Urbana-Champaign seeks a person to support publication, reporting, public information, and special programs efforts. Requires bachelor's degree, 5 years of experience, and excellent communications skills; computer experience preferred. Salary commensurate with qualifications; regular, full-time position. Close date: 4 September 1990. Start date: 1 October 1990. Send application to: James Rendshaw, Microwave Lab, 203 Wright Street, Room 127, Urbana, IL 61801. Telephone: 217-333-3097. An Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION IN BIOLOGY

The Division of Life Sciences, The University of Texas at San Antonio, invites applications for a tenure-track ASSISTANT PROFESSOR in biology. Candidates must show demonstrated research productivity and substantial ability and interest in teaching anatomy, physiology, and endocrinology at the undergraduate and graduate levels. A Ph.D. is required and postdoctoral experience desired. Submit curriculum vitae, names of at least three professional references, and representative publications to: Director, Division of Life Sciences, The University of Texas at San Antonio, San Antonio, TX 78285-0662. Closing date to receive applications is 1 September 1990. The University of Texas is an Affirmative Action/Equal Opportunity Employer.

UNIVERSITY OF QUEENSLAND DEPARTMENT OF BOTANY

The Department is the leading provider in Queensland, and one of the leading providers in Australia, of undergraduate and postgraduate education in plant biology. Its goal is to address regionally and nationally important issues, in particular the conservation, management and, where appropriate, rehabilitation of valuable ecosystems through an understanding of processes in plants and the dynamics of vegetation and evolutionary change. To this end, it will appoint two new staff, the Chair of Botany and a Lecturer (tenurable) in Marine Botany. It is planned to relocate the Department in 1993 into a refurbished building within the biology precinct.

CHAIR OF BOTANY

The appointee will be a distinguished experimentalist in the areas of ecology and evolution of tropical and sub-tropical terrestrial plants and plant communities, who will provide academic leadership to the Department as a whole, and enhance the strengths of the different areas of teaching and research activity. A particular responsibility will be to provide leadership to the ecology and physiology group, which currently includes 3 academic staff, and is concerned primarily with the understanding processes within tropical and sub-tropical forests as a basis for their conservation and management. A major research project of the group is located in a southern Queensland rainforest, and joint research programmes link the Department with several states and federal agencies, with the Institute of Rainforest Studies in Cairns, and with overseas researchers. The position also allows exciting opportunities for the development of collaborative research programmes within the University under the auspices of a Centre for Conservation Biology which will provide a focus for the research of whole-organism biologists.

The appointee will be expected to assume the Headship of the Department for a period of 5 years in the first instance. (A salary leading for Headship applies).

Salary: $80,479 per annum
Reference No.: 33590
Closing date: 30 August, 1990

Applicants should forward an original plus three copies of application and resume to The Director, Personnel Services, The University of Queensland, Q.4072.

LECTURER IN BOTANY (TENURABLE)

The successful applicant will have an established record and an active research interest in marine botany, preferably in subtropical or tropical areas. The appointee will be expected to teach in botany, with particular responsibility for undergraduate subjects and postgraduate supervision in marine botany, to conduct research in marine botany, and to contribute to the scholarly activities of the Department. Outstanding opportunities exist for collaborative teaching in the School of Marine Science within the University, and for research at Heron Island on the Great Barrier Reef, in coastal southern Queensland, and in experimental marine and freshwater aquaculture facilities in Brisbane and nearby.

Salary: $43,183-$43,096 per annum
Reference No.: 33690
Closing date: 30 August, 1990

Applicants should forward an original plus seven copies of application and resume to The Director, Personnel Services, The University of Queensland, Q.4072.

Further information on present teaching responsibilities and research activities of the Department may be obtained from: Dr. D. Doley, Department of Botany, The University of Queensland, Q.4072, Telephone 07 377 2727, Facsimile 07 870 3854.

Equal Opportunity in Employment is University Policy

The Upjohn Company's Infectious Diseases Research group is seeking a virologist to join our virology group. The virology program currently involves a vaccine for respiratory syncytial virus and several approaches to HIV antivirals. The new virologist will have an important role in one or more of these projects, as well as in defining future directions for the growing virology program.

Qualifications include a PhD in an appropriate discipline, postdoctoral experience, with a significant record of accomplishment in the field of virology. Particular research areas would include (1) molecular biology of retroviruses and/or (2) evaluation of antivirals in animal models. Strong candidates in any field of virology are encouraged to apply for the position. Since a senior level appointment is a possibility for this position, applications from established investigators are particularly welcome.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. In 1989, Upjohn committed over $400 million to research and development and is currently increasing its main research facility by 50%. Qualified and interested applicants are invited to forward their cv/resume to: THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI 49001-0199. Refer to position number 6000-HA in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues.....

The Upjohn Company's Infectious Diseases Research group is seeking a virologist to join our virology group. The virology program currently involves a vaccine for respiratory syncytial virus and several approaches to HIV antivirals. The new virologist will have an important role in one or more of these projects, as well as in defining future directions for the growing virology program.

Qualifications include a PhD in an appropriate discipline, postdoctoral experience, with a significant record of accomplishment in the field of virology. Particular research areas would include (1) molecular biology of retroviruses and/or (2) evaluation of antivirals in animal models. Strong candidates in any field of virology are encouraged to apply for the position. Since a senior level appointment is a possibility for this position, applications from established investigators are particularly welcome.

Upjohn offers a competitive compensation and benefits package in addition to a stimulating, multi-disciplinary research environment at our modern laboratories in Kalamazoo, Michigan. In 1989, Upjohn committed over $400 million to research and development and is currently increasing its main research facility by 50%. Qualified and interested applicants are invited to forward their cv/resume to: THE UPJOHN COMPANY, CORPORATE RECRUITING, KALAMAZOO, MI 49001-0199. Refer to position number 6000-HA in your cover letter. An Equal Opportunity Employer M/F.

Our Commitment to Scientific Excellence Continues.....

Upjohn

10 AUGUST 1990
POSITIONS OPEN

U.S. DEPARTMENT OF AGRICULTURE (USDA)
AGRICULTURAL RESEARCH SERVICE (ARS)
QUANTITATIVE POPULATION ECOLOGIST

The Screwworm Research Laboratory, ARS, at Tuxtla Gutiérrez, Chiapas, Mexico, is seeking an ecologist to work as a member of a team of ecologists in developing population models, using the population dynamics of the screwworm in tropical and subtropical environments. The ecologist will be stationed at San José, Costa Rica, with opportunities to identify biological and ecological data and developing population dynamics models. Ph.D. required with knowledge of insect ecology, statistics, and mathematical modeling; skills in computer usage and programming. Other qualifications: knowledge of insect behavior and genetics, ability to communicate with management of action agencies of government, ability to speak and understand Spanish. Position is a 3-year appointment with salary of $29,891 (GS-11) or $35,825 (GS-12) with additional quarters of allowance at foreign location. Applicants must be U.S. citizens. For further program information, contact: C. J. Whitten (Tuxtla, Mexico), 011-52-961-33550, or D. T. Taylor, 011-52-961-32691. Interested applicants must contact Carol Gramlich at 301-344-1508 for application procedures and required forms. Applications in professional, technical, and support positions will be reviewed up to 4 September 1990 and must be postmarked by 17 September 1990. Send complete applications to: Carol Gramlich, USDA, ARS, AD, POB, Southern Section, ARS-1143, 1415 A.R.S., 1435, Laurel, MD 20708. ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

AGRICULTURAL ENGINEER, ASSOCIATE DEVELOPMENT

To develop a user-friendly diagnostic expert system to aid the operator in determining the root cause of a specific engine malfunction, the expert system will use a diagnostic expert system shell, perform tests field data of the developed computer system, present the research work at professional conferences, and prepare research proposals and progress reports for funding agencies. Entry level position. Requirements: Ph.D. degree in mechanical, chemical, or agricultural engineering with a strong background in artificial intelligence (AI) expert systems, hazardous waste incineration, probabilistic risk assessment and reliability engineering, process control theory, and engineering. Demonstration experience developing a Bayesian network-based diagnostic expert system for hazardous waste incinerators. Preference in AI proficient in both LISP and C. Extensive experience with expert systems shell: PS Plus, KEE, and Excel. New job location/interview: Los Angeles, California. Salary: $35,000. Send this advertisement and résumé to: Job #DB16857, P.O. Box 9560, Sacramento, CA 95823–0560, no later than 25 August 1990.

EPIDEMIOLOGIST

CENTERS FOR DISEASE CONTROL (CDC)
ATLANTA

The Radiation Studies Branch, Division of Environmental Hazards and Health Effects (EHHE), Center for Environmental Health and Injury Control, has a vacancy for an epidemiologist to conduct epidemiologic studies related to possible health effects of populations exposed to ionizing radiation. EHHE has approximately 50 professional, technical, and support personnel responsible for a variety of challenging environmental public health programs. Although not required for consideration, a Ph.D., M.D., Sc.D., or Ph.D. degree with a strong background in epidemiology, biostatistics, and environmental health; or more years experience in related environmental health work; and a relevant publication or book. Successful completion of the Ph.D. program is desired. Specifically, experience in epidemiologic studies involving ionizing radiation would be a strong attribute for qualified applicants. Beginning annual compensation is from $42,000 to $67,000, depending on qualifications and experience.

Interested persons should send curriculum vitae to: James M. Smith, Ph.D., Chief, Radiation Studies Branch, Centers for Disease Control, Mail Stop F-28, 1600 Clifton Road, N.E., Atlanta, GA 30333.

CURRICULUM VITAE

CDC is an Equal Opportunity Employer and provides a smoke-free environment.

POSITIONS OPEN

ELECTRICAL ENGINEERING, POWER SYSTEMS

The U.S. Department of Energy will design and develop a new power supply system for use in laboratory applications. The system will be designed to meet specific requirements. Requirements: Ph.D. degree in electrical engineering; experience designing electrical systems; and experience in the design and implementation of control systems. Knowledge of circuit theory, power electronics, and control systems is essential. Send curriculum vitae and references to: Dr. Robert H. Lippert, Department of Energy, 1505 Broadway, New York, NY 10036. An Equal Opportunity Employer.

FACULTY POSITION

GASTROINTESTINAL RESEARCH INVESTIGATOR IN THE BASIC OR CLINICAL SCIENCES

A faculty position is available for a basic or clinical investigator in the gastrointestinal sciences in a large academic Department of Gastroenterology. Applicants should possess M.D., Ph.D., or M.D./Ph.D. degree and have experience in the planning and execution of an independent program of research with extramural, peer-reviewed funding. Those with clinical training in gastroenterology and experience in the conduct of large department flexible ways whereby these skills can be manifested and utilized. Faculty rank is also flexible, commensurate with the successful applicant’s experience and academic standing. The field of study is not restricted. Current faculty have interests in basic and applied research in liver function and disease, pancreatic function and disease, gastrointestinal peptides, gastrointestinal motility, epidemiology of digestive diseases and the functional bowel diseases. Outstanding support services are available and the opportunities for collaborative research are excellent. Applicants would be expected to have, or to establish, credentials in the national arena of academic gastroenterology. Please forward applications including curriculum vitae, bibliography, a summary of research interests and the names of three references to: Sidney F. Phillips, M.D., Gastroenterology Unit, Mayo Clinic, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST/ENDOCRINOLOGIST

The Division of Molecular Biology, National Cancer Institute, National Institutes of Health, is seeking an investigator to investigate molecular mechanisms of hormone action and aging. Experience and/or interest in gene cloning, cell culture, and protein DNA interactions are required. Salary competitive with academic positions of similar rank. Send curriculum vitae, research statement, and names of three references to: Dr. Arun K. Roy, Ph.D., Professor and Head, Division of Molecular Genetics, National Cancer Institute, Building 37, Room 1003, National Institutes of Health, Bethesda, MD 20892.

NEUROLOGIST/CLINICAL NEUROPHYSIOLOGIST/EPILEPTOLOGIST

Direct EEG Department and Comprehensive Epilepsy Program at universi- ty-affiliated private hospitals. Interest in research and the surgical treatment of epilepsy. Board-certified in neurology and electroencephalography (ABQE). Pre- vious experience essential, including EEG and video monitoring and electrocortiography. Send curriculum vitae and a statement of interest to: Robert M. Herndon, M.D., Department of Neurology, Good Samaritan Hospital, 105 North 22nd Avenue, Portland, OR 97210. Good Samaritan Hospital and Medical Center is an Equal Opportunity/Affirmative Action Employer.

PHYSIOLOGIST/PHARMACOLOGIST

Needed to establish Division of Research in Department of Emergency Medicine. Require Ph.D. and research interest related to emergency medicine. Send curriculum vitae to: Robert Schneider, M.D., Department of Emergency Medicine, Carolinas Medical Center, P.O. Box 32861, Charlotte, NC 28223.

HUMAN GENETICS

Annually, 300,000 unique specimens are available for genetic marker analysis through the New York State Newborn Screening Program. Two research scientist positions are currently available: (i) research associate (population studies) and (ii) assistant research scientist. Requirements: Ph.D. with strong background in applied molecular biology. Start date: September 1990. Send curriculum vitae and three references to: Chief, Laboratory of Human Genetics, New York State Department of Health, Wadsworth Center for Laboratories and Research, P.O. Box 509, Albany, NY 12220–0509.

PERSONNEL PLACEMENT ADS in our line classified columns can be boxed for higher visibility. Call SCIENCE at 202-326-6555 for details.
Applicants are invited for the above post on an international basis (non-Swedish citizens) from persons with a secure international research reputation and a wide range of contacts in the programme areas of the Institute detailed below. Sensitivity to environment-development issues in industrialized and developing countries worldwide, preparedness to travel widely in order to develop further the Institute’s existing international R&D and information networks and complete fluency in both spoken and written English are all essential requirements. Experience in managing an international, research-based operation in the public or private sector, is also necessary. An appointment will be made for up to four years in the first instance, with the option of a further four years, by mutual agreement. Salary arrangements are negotiable, based on UN criteria.

The Institute:
The SEI, established in 1989 following a Swedish Government initiative, is an independent Foundation governed by a Board of fifteen members drawn from developing and industrialized countries worldwide. Substantial core-funding to the SEI Foundation from the Swedish Government for the current phase of operations (up to 30 June 1993) is expected to continue beyond 1993. Additionally, the Institute currently has further funding from a range of external sources.

The Institute’s primary objective is to carry out authoritative, policy-oriented studies and research on the assessment and development of technologies in relation to environmental management, and its methods and strategies for promoting sustainable development. It has already established a secure international reputation in these fields.

The Programme:
The Board had set guidelines for a rolling-programme of action with the following priority themes: (1) Agro-biotechnological biosafety; (2) Climatic change assessment; (3) Energy futures; (4) Economics, ethics and environmental value. Supporting measures for these priorities include: a) integrated pollutant management strategies; b) water demand/supply management; c) sustainable rural-development; d) dissemination of environmental management capacity.

The Institute has good working linkages with similar institutes abroad and with international governmental agencies. The SEI already plays a significant role in supporting the secretariat of the UN Conference on Environment and Development (UNCED) during the current preparatory phase, for the Conference in Brazil (June 1992).

The above programme is carried out by a worldwide network of about 70 full-time, part-time, and affiliated staff and consultants, who collaborate with cognate institutions worldwide and are linked to the SEI Centres in Boston (USA) and York (UK) and with the Headquarters, located centrally in Stockholm. It has been initiated by the present Director (Professor Gordon Goodman) who was responsible for the start-up of the Institute and who retires at the end of 1990.

Applications should be sent no later than 10 September 1990 to the Chairman of the SEI Board, Professor Gunnar Brodin, Chancellor, of the Swedish Universities, P.O. Box 45501, 104 30 Stockholm, telephone +46-8-728 3600 or Kai Olsson, PA Consulting Group, Box 7813, 103 96 Stockholm, telephone +46-8-24 90 20, from whom further information may be obtained.

ALCOHOL, DRUG ABUSE, AND MENTAL HEALTH ADMINISTRATION U.S. PUBLIC HEALTH SERVICE

SCIENCE EDUCATION DIRECTOR

The Alcohols, Drug Abuse, and Mental Health Administration (ADAMHA) has an immediate opening for a senior staff specialist who will serve as the Agency’s spokesperson and coordinator for a national program to enhance public understanding of biomedical and behavioral research relating to mental and addictive disorders and to stimulate greater interest in science careers among young people. Develops and implements ADAMHA program plans in this area, collaborating with other PHS, national, and local groups and agencies, to promote a wide range of public information, curriculum development, and enrichment activities for the science education.

This position will be filled at the GS-14/15 level, with an annual salary range of $50,242 to $78,200. Physicians may be eligible for an additional Physician’s Comparability Allowance of $5,000 to $20,000 annually. The position may also be filled through appointment in the PHS Commissioned Corps. Desirable qualifications include: Experience directing a national or regional program of science education (including, e.g., those for schools, museums, or media presentation) for elementary and/or high school students; or extensive experience in science teaching at the precollege level plus experience in development of national strategies for science education; and master’s or higher level degree in a biomedical or behavioral science related to ADAMHA’s missions, or a master’s or higher degree in education plus experience participating in research related to ADAMHA’s mission.

This position is located in Rockville, Maryland and offers full Federal benefits. Relocation expenses may also be paid. U.S. Citizenship is required. Send Application for Federal Employment (SF-171)/resume to, Ms. Mary Jane Meyers, ADAMHA Personnel Office, Rm. 15C-12, 5600 Fishers Lane, Rockville, MD 20857 (Telephone: (301) 443-5407). Applications must be postmarked by August 24, 1990.

ADAMHA IS AN EQUAL OPPORTUNITY EMPLOYER
The University of Queensland

Equal opportunity in employment is University policy.

Chair of Geology and Mineralogy

Applications are invited for the Chair of Geology and Mineralogy from geoscientists of high academic standing with substantial research achievements. The appointee will be strongly committed to education in geology at all levels, have considerable teaching and administrative experience, and a demonstrated capacity for collaboration with industry and the attraction of external funds.

It is expected that the appointee will assume significant administrative responsibilities, including the Department Headship for at least the first five years of appointment.

In addition to the advertised chair, the Department has 14 full-time teaching staff positions, including the Dorothy Hill Chair of Palaeontology and Stauritogy, and 21 research and support staff. The Department has excellent research facilities for a range of disciplines including petrology, elemental and stable isotopic geochemistry, palaeontology, sedimentology, and geophysics; a museum and a first-class library. The W H Bryan Mining Research Unit, housed within Geology and Mineralogy, is a recent joint venture with the Department of Mining and Metallurgical Engineering.

The Department offers 3 and 4-year (Honours) courses leading to the BSc degree in Geology, 4-year courses leading to Bachelor Applied Science (Geophysics) and Bachelor of Applied Science (Geology) and coursework leading to Master of Scientific Studies. There are currently 41 postgraduate students of whom 21 are PhD or research MSC candidates.

The salary for a Professor is A$67,812 per annum. Ref. No: 23990.

Closing Date: 30 September 1990.

Further information is available from the Head of Department Dr G R Grime on (07) 377 3910.

The University requires an original plus three copies of application and resume to be forwarded to the Director, Personnel Services, The University of Queensland, Qld. 4072.

Staff Positions in Immunology and Cell Biology

Supported by The Lucille P. Markey Charitable Trust

Tenure-track positions preferably at the assistant professor level are available in the Division of Immunology in the Department of Pathology and in the Department of Cell Biology at New York University School of Medicine.

We are most interested in applicants with research programs in the cell biology and immunology of antigen presentation, intercellular trafficking of proteins in cells, intracellular vesicular transport, T-cell and thymic functions, and tolerance mechanisms. However, we will consider outstanding applicants in other areas of immunology. Successful candidates will receive several years of research support to develop an independent line of investigation.

Applicants should send curriculum vitae, a short statement of research interests, and names of references to Victor Nussenzweig, M.D., Division of Immunology, Department of Pathology, NYU Medical Center, 550 First Avenue, New York, NY 10016.

POSITIONS OPEN

POSTDOCTORAL POSITION

Postdoctoral position available for an individual with a Ph.D. and experience in molecular biology. The successful applicant will be engaged in biochemical and molecular mechanisms by which angiotensin peptides and other hormonal and pharmacological stimuli mediate cardiac muscle. The postdoctoral associate would also be offered the opportunity to engage in research defining the role of a localized intracellular renin-angiotensin system in mediating cardiac muscle cell growth, with an emphasis on the regulation of the cell cycle system. Competitive salary and fringe benefits are available. Please send curriculum vitae and names or letters of reference to Dr. W. E. Weiss Center for Geology and Mineralogy, Geisinger Clinic, Danville, PA 17822. Equal Opportunity Employer.

POSTDOCTORAL POSITIONS IN CELL ADHESION

Available in a laboratory studying cell-cell and cell-substrate adhesion molecules (particularly N-CAM, cytactin, tenasin, and cytoactin-binding pro- teoglycan) in terms of their structure-function relationships, their interactions with other proteins including their cell-surface receptors, and their roles in cell migration, cell division, and differentiation during heart development and in human autoimmune diseases. Experience in biochemistry or molecular methods, or the work on embryonic heart development would be a plus. Send curriculum vitae and the names of three references to: Dr. Stanley Yeo, Division of Rheumatology and Immunology, Medical University of South Carolina, 171 Ashley Avenue, Charleston, SC 29425-2229.

POSTDOCTORAL POSITION

Available for Ph.D. in lipoprotein metabolism and atherosclerosis in nonhuman primates under the supervision of Dr. Ram-pratap S. Kushwaha, scientist. Applicant should be experienced with methods in protein biochemistry and metabolism. Annual salary ranges upward from $21,694, with consideration for prior relevant postdoctoral experience. Position is available for 2 years with opportunities for further extension or conversion to a staff position. Please send curriculum vitae and research interests, and names and telephone numbers of three references, including major professor, to: Personnel Director (6), Southwest Foundation for Biomedical Research, P.O. Box 28147, San Antonio, TX 78228-0147. Equal Opportunity Employer, M/F.

POSTDOCTORAL POSITION

Available immediately for research on the molecular mechanisms involved in the diabetes-related defects in regulation of hepatic and cardiac glycogen metabolism. A Ph.D. in biochemistry or one of the media, PA 19140. Relevant training in molecular biology and immunology is a distinct advantage. Experience using techniques of molecular biology is desirable. Opportunity to learn and practiceucy of primary cell culture, enzymology, molecular biology, and protein chemistry in studying hormonal control of metabolic pathways. Send curriculum vitae and names of three references to: Dr. Thomas B. Miller, Jr., Department of Biochemistry and Molecular Biology, University of Massachusetts Medical School, 55 Lake Avenue North, Worcester, MA 01658. UMMC is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION IN NEUROBIOLOGY

An NIH-funded postdoctoral position is available to study neurotransmitter receptors and ion channels using biophysical and electrophysiological techniques. The position will focus on one of two projects that involve nicotinic acetylcholine receptors (AChRs) on chick ciliary ganglion neurons. The first project will be an extension of the mechanism by which cyclic AMP regulates AChR on the neurons [J. Neurosci. 8, 1851-1859 (1988)]. The second project will involve characterization of mRNA transcripts involved in neuronal expression of AChRs in Xeopus oocytes, and identification of mechanisms underlying changes in AChR properties that occur during embryonic development [Dev. Biol. 135, 326-339 (1989)]. Applicants should send curriculum vitae and the names and telephone numbers of three references to: Dr. Joseph W. Markey, Department of Cell Biology, 1218, Department of Physiology and Biophysics and Fishberg Research Center for Neurobiology, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

POSITIONS OPEN

POSTDOCTORAL POSITION. Position available to study the molecular basis for regulation of vesicular transport of protein through the extrinsic pathway of eukaryotic cells. Experience in recombinant DNA meth- odology, eukaryotic gene expression, and use of viral vectors. Send curriculum vitae and names of three references to: Dr. W. E. Balch, Department of Molecular Biology, IMM 11, Research Institute of Scripps Clinic and Research Foundation, La Jolla, CA 92037.

POSTDOCTORAL POSITION. Available immediately to study novel mechanisms of action of antinuclear autoantibodies. Individual with experience in tissue culture, clonal assays, protein purification, and study of DNA binding properties preferred. Send curriculum vitae and three names or letters of reference by 24 August 1990 to: Dr. D. Ross, School of Pharmacy, Campus Box 150, University of Colorado, Boulder, CO 80309-0297.

POSTDOCTORAL POSITION. To study biosynthesis and translation of dolasol-linked oligosacchar- ides in mammalian cells using genetic and biochemical approaches. Send curriculum vitae and three names or letters of reference by 24 August 1990 to: Dr. J. E. S. Pines, Department of Cell Biology, University of Southwestern Medical Center, 5323 Harry Hines Boulevard, Dal- las, TX 75235. Equal Opportunity University.

ADVANCED POSTDOCTORAL POSITION. Available beginning October 1990 at the University of California, San Francisco (UCSF), for at least 1 year to study gene regulation of beta-cell-specific receptors. In Ph.D. in molecular biology and experience in recombi- nant DNA techniques necessary. Chance to work indepen- dently. Send curriculum vitae and names and addresses of three references to: Dr. Joel S. Karliner, Cardiology Section (111C), VA Medical Center, 4150 Clement Street, San Francisco, CA 94121. UCSF is an Equal Opportu- nity/Affirmative Action Employer.

POSTDOCTORAL POSITIONS. Postdoctoral traineeship positions are available in molecular biology, and immunology and genetics, cell biology, biochemical, and carcinogenesis. Active programs include oncogenes, genes in growth control, DNA repair mechanisms, receptors, and cellular transduction systems. Send curriculum vitae, a short statement on training interests, or known, and three letters of recommendation to: Dr. Gerald Litwack, Deputy Director, Fels Institute for Cancer Research and Molecular Biology, Temple University School of Medicine, 3420 North Broad Street, Philadelphia, PA 19140. Applicants must be U.S. citizens or permanent resident. An Equal Opportunity Employer.

POSTDOCTORAL POSITION, BIOCHEMISTRY AND MOLECULAR BIOLOGY OF PROTEIN TUMOURS. Funded position is available to undertake research in the motor systems of Crassostrea gigas. Send curriculum vitae, a short statement of research interests, and the names of three references to: Dr. Sarah Hitchcock-DeGregori, Department of Neuroscience and Cell Biology, University of Medi- cine and Dentistry of New Jersey, Robert Wood Johnson Medical School, 675 Hoes Lane, Piscataway, NJ 08854-5635. The UMDNJ is an Affirmative Action/Equal Opportunity Employer, M/W/F, and a member of the University Health System of New Jersey.

POSTDOCTORAL POSITIONS. Two positions immediately available to study mechanisms of saltation. The project involves biochemical and electrophysiologi- cal characterization of recombinant ligand binding of alpha subunit of the cAMP receptor in the cell membrane towards understanding mechanisms of detection and discrimination of chemical mixtures. Background in biochemistry and molecular biology is essential. Send curriculum vitae by 24 August 1990 to: Dr. Charles H. Derby, Department of Biological Sciences, Box 1218, Department of Physiology and Biophysics and Fishberg Research Center for Neurobiology, The Mount Sinai School of Medicine, One Gustave L. Levy Place, New York, NY 10029-6574. An Equal Opportunity Employer.

SCIENCE, VOL. 249
CELL CULTURE

TECHNICAL SERVICE SUPERVISOR

Life Technologies, Inc., has an immediate opening for a Technical Service Supervisor for its Grand Island site. The individual will be responsible for the Cell Culture Technical Service organization in order to respond to technical inquiries, build a computerized database, respond to product performance complaints, and interface with all disciplines within the customer base and the Company. Responsibilities will also include Cell Culture editorialship of FOCUS, seminars, workshops, scientific articles and participation in the company’s Training Center Programs.

The successful candidate will have a Ph.D. in Life Sciences with expertise in cell culture, 3-4 years postdoctoral experience, strong written and verbal communication skills, knowledge of computer databases, and management and teaching experience.

We offer an opportunity to join the leader in this growing industry, a competitive salary commensurate with education and experience, a comprehensive flexible benefits package, and an atmosphere that fosters career opportunities.

To join the leader, forward your resume with references to:

Debra Pike
Human Resources Manager
Life Technologies, Inc.
P.O. Box 68
Grand Island, NY 14072

EOE M/F/V/H

LIFE TECHNOLOGIES, INC.
SUPPORTS A DRUG FREE WORKPLACE

NATIONAL INSTITUTE of MENTAL HEALTH
PUBLIC HEALTH SERVICE
DEPARTMENT OF HEALTH AND HUMAN SERVICES

DEPUTY DIRECTOR
DIVISION OF INTRAMURAL RESEARCH

The National Institute of Mental Health (NIMH), one of three scientific Institutes of the Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA), is seeking nominations and applications for the position of Deputy Director, Division of Intramural Research Programs (DIRP). The Division is the largest scientific research center in the world focused on mental health, mental illness, and behavioral and brain research. Its diverse research programs are conducted by over 750 employees, including over 200 doctoral-level scientists, in 21 different laboratories and clinical branches.

Responsibilities of the Deputy Director, DIRP, includes serving as full Deputy to the Institute’s Scientific Director, with full delegation of authority to act for the Scientific Director in both scientific and administrative matters related to the overall operation of the Institute’s intramural research program; advising and consulting with the Scientific Director and with the Laboratory and Branch Chiefs on policy issues that have impact throughout the Division; allocating and controlling the Division’s human, financial, and space resources in the Director’s name; devising methods to attract and retain world-class leaders in the field of mental health research; and providing advice, counsel, and direction to the Laboratory and Branch Chiefs, and to their subordinates, on the development and implementation of program plans.

Minimum qualifications requirements include a degree of Doctor of Medicine, Doctor of Philosophy, Doctor of Osteopathy, or a bachelor’s or higher degree in an academic field related to the health sciences, and progressively responsible experience in developing, administering, and evaluating biomedical research programs.

The person selected for this position will receive a career appointment to the Senior Executive Service with an annual income of $79,200 (plus up to $20,000 per annum allowance for physicians only). The proposed income range to be effective January 1991, pending issuance of an Executive Order, is $84,000 to $97,000 (plus up to $20,000 allowance for physicians only). Senior Executive Service members are also eligible for performance awards of 5 to 20 percent of base salary.

Additional information about the position and qualifications requirements may be obtained by contacting Mr. Joseph W. Whitaker at (301) 496-5337. An SF-171, Application for Federal Employment, accompanied by a current curriculum vitae and bibliography, and the names and addresses of three references, should be submitted to:

Mr. Whitaker
NIMH-IRP Personnel Office
Building 10, Room 4C101
National Institutes of Health
9000 Rockville Pike
Bethesda, Maryland 20892

Complete application packages, including the SF-171, must be postmarked by the closing date, August 31, 1990. Resumes are not acceptable for entrance into the Senior Executive Service. Applications will be accepted from all qualified Federal employees, and from individuals with SES reinstatement eligibility ONLY.

Applications from women and minority group members are solicited.

The Alcohol, Drug Abuse, and Mental Health Administration is an Equal Opportunity Employer

Mr. Whitaker
NIMH-IRP Personnel Office
Building 10, Room 4C101
National Institutes of Health
9000 Rockville Pike
Bethesda, Maryland 20892

Complete application packages, including the SF-171, must be postmarked by the closing date, August 31, 1990. Resumes are not acceptable for entrance into the Senior Executive Service. Applications will be accepted from all qualified Federal employees, and from individuals with SES reinstatement eligibility ONLY.

Applications from women and minority group members are solicited.

The Alcohol, Drug Abuse, and Mental Health Administration is an Equal Opportunity Employer
POSTDOCTORAL FELLOW

Transcription Regulation

We are seeking an individual with a Ph.D. degree or equivalent in Molecular Biology or Biochemistry to participate in research on regulation of gene transcription with particular emphasis on the family mammalian glucose transporter genes. A strong background in the study of cis and trans regulatory elements is desirable.

Merck Sharp and Dohme Research Laboratories is located in Rahway, New Jersey approximately 25 miles from New York City. Our salaries, benefits and growth potential are excellent. For consideration, send your resume with the names of three references to Human Resources Manager, Merck & Co., P.O. Box 2000, MAF 32, Rahway, New Jersey 07065.

An equal opportunity employer m/f/v/h

Research Scientist, Drug Metabolism Dept., New London, CT - Determine biotransformation & pharmacokinetics of experimental drugs in animals & humans. Use various in vitro techniques to investigate metabolism of drugs & effects of drugs on drug-metabolizing enzymes. Involves use of a number of bioanalytical techniques, including HPLC, GC, & spectroscopy, determination of drug levels by spectrophotometric, fluorimetric & radiometric analysis, determination of enzyme activities using specific substrates, measuring enzyme levels by spectrophotometric & electrophoretic techniques including Western immunoblotting. Dosing of laboratory animals by multiple routes including minor surgical procedures for cannulation & preparation of tissue fractions for enzyme analysis & protein binding. Report to multidisciplinary investigational team comprising biologists, chemists & clinicians, on aspect of drug metabolism which will favor discovery of new drugs. Ph.D. in Biochemistry/Pharmacology req’d. Min. 4 1/2 yrs. exp. in the job offered or 4 1/2 yrs. exp. as Post-Doctoral Fellow, drug metabolism research. Must have graduate specialization in drug metabolism. Must know various techniques used in quantitating metabolism of drugs and levels of enzymes, including in vitro techniques. 40 hrs/wk, $25.48/hr. Send resume to: Job Service Technical Unit CT Dept. of Labor, 200 Folly Brook Blvd., Whettersfield, CT 06109 J.O. #3072901.

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SCIENCE Magazine
New Lab Service Department
1515 Broadway
New York, NY 10036

Science
Pulmonary Research

Pfizer Inc is an international leader in the research and development of health care products. The Department of Immunology and Infectious Diseases of the Central Research Division is committed to innovative research leading to the discovery of novel therapeutics for the treatment of pulmonary diseases. Our approach to drug discovery encourages individual creativity as an important element in guiding a team effort toward a therapeutic target. This philosophy results in an environment that is challenging to the individual while enhancing group productivity. Scientific growth and development are stimulated by frequent interactions with prominent scientists in academia and medicine as well as with members of the research community within Pfizer.

Our current interests encompass the pharmacologic manipulation of monocyte-macrophage/lymphocyte/eosinophil interactions in models of airway inflammation/hyperreactivity. You should have a PhD and postdoctoral training in pharmacology, physiology, biochemistry, or immunology. Prior research on problems associated with pulmonary or allergic disease mechanisms is highly desirable. Previous industrial research experience is welcome but not essential.

We offer a stimulating research environment and an excellent opportunity for professional recognition and advancement. In addition, we provide a competitive salary/benefits package and an opportunity to live in an attractive Connecticut shore community. Qualified applicants should submit their resume and references in confidence to: Dr. Jerry K. Larson, Assistant Director, Employee Resources, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, Connecticut 06340. An equal opportunity employer.

MARIE ELISE WHITNEY SNYDER MEMORIAL FELLOWSHIP
WOMEN'S SCHOLAR AWARD IN MOLECULAR BIOLOGY

The Allegheny Singer Research Institute and The Medical College of Pennsylvania invite applications for the Marie Elise Whitney Snyder Memorial Fellowship to support a woman's scholar award in molecular biology. This award is intended to encourage the investigation of the basic molecular aspects of human disease by young women scientists, and offers the opportunity to initiate independent research at Allegheny Singer Research Institute. Awards of up to $50,000 a year for up to three years are made to individuals with either an M.D. or Ph.D. degree with extensive postdoctoral training or research experience in molecular biology. The awardee will have the opportunity to design and conduct research in a fully equipped laboratory as a staff scientist at Allegheny Singer Research Institute with an accompanying faculty appointment at the appropriate rank at The Medical College of Pennsylvania. The awardee will be selected by a panel of nationally recognized scientists for the award which will begin July 1, 1991.

Eligible applicants will have an M.D., Ph.D. or equivalent degree with a minimum of three years of postdoctoral or research experience and be not more than 7 years beyond degree prior to the initiation of the award. The research will be conducted at the Allegheny Singer Research Institute and the award may be used for salary or other support. Major items of equipment will be provided by the Institute.

Interested candidates should apply by October 1, 1990 by submitting a curriculum vitae, a description of future research plans and long term career goals, and the names of three references to Dr. Leonard L. Ross, Dean, The Medical College of Pennsylvania, 3300 Henry Avenue, Philadelphia, PA 19129. The reference letters should be sent directly to Dr. Ross. Selection of the awardee will be made by December 15, 1990.
A tenure-track or permanent position is available for a senior scientist in the Intramural Research Program of the National Institute of Mental Health. U.S. citizens and non-citizens are encouraged to apply. The incumbent should work in the general area of cellular electrophysiology using patch clamp or voltage clamp techniques to study ion channels, receptors and/or second messenger systems. The use of molecular biological techniques to express receptors and/or channels of electrophysiological studies is desirable. The salary will be commensurate with the successful applicant's experience (range of $42,600 to $78,200 per year). The person selected may be eligible for a Physician's Comparability Allowance which would increase the above figures as much as $20,000.

The person chosen for this position will be responsible for the scientific and administrative management of a unit or section, and will be expected to develop an internationally recognized research program. Candidates should have an M.D. and/or Ph.D. degree and at least five years of postdoctoral experience. They should have made significant contributions to our understanding of ion channels, receptors, or second messenger systems.

Interested individuals should submit a C.V. and bibliography, a one-page outline of research interests, and names and telephone numbers of three references to:

Steven M. Paul, M.D.
Director of Intramural Research
National Institute of Mental Health
Building 10, Room 4N-224
9000 Rockville Pike
Bethesda, Maryland 20892
(301) 496-3501

NIMH is an Equal Opportunity Employer

POSTDOCTORAL POSITION

POSITIONS OPEN

POSTDOCTORAL POSITION IN MOLECULAR BIOLOGY. NIH training grant-supported position available 1 September 1990 to study the molecular biology of complement proteins. Experience in cloning, sequencing, mammalian expression desirable but not essential. Please see: Dr. Gary R. Williams, Department of Biochemistry and Molecular Biology, University of Missouri, Kansas City, MO 64110. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL ASSOCIATE. Position available now for research focused on molecular events in skin epithelial and fibroblast differentiation and interactions. Background in molecular biology and cell biology, or equivalent. Familiarity with in situ hybridization, mRNAs analysis, and recombinant cDNA techniques desirable. Send curriculum vitae and three letters of reference to: Dr. Allan L. Lorincz, Section of Dermatology, Department of Medicine, The University of Chicago, 5841 South Maryland Avenue, Box 409, Chicago, IL 60637.

POSTDOCTORAL POSITION, MOLECULAR ENDOCRINOLOGY. An NIH-funded program on autocrine regulation of parathyroid secretion by chromogranin peptides. Research utilizes cell biology, protein chemistry, and molecular biology. Exceptional research environment in a major medical/dental health science center. Faculty appointment possible for qualified candidate. Send resume and three letters of reference to: Dr. David V. Cohn, Chair, Department of Oral Health, School of Dentistry, University of Louisville, Louisville, KY 40292-588-7507. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION, MOLECULAR RETROVIROLOGY

Funding is available for a recent Ph.D. to study the regulation of FeLV expression, with particular emphasis on the mechanism of FeLV-induced T cell killing. Interested persons should send their curriculum vitae and the names and the telephone numbers of references to: Julie Overbaugh, Department of Microbiology, SC-42, University of Washington, Seattle, WA 98195. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL TRAINEESHIP. Available immediately in an NIH-funded training program in gastroenterology at the University of Pennsylvania. The position is in a laboratory with research focus on nerve/smooth muscle control mechanisms. Current studies involve the application of physiologic, pharmacologic, and molecular biology techniques in the study of the control and function of neuroepithelial receptors and ion channels in the gut. Send curriculum vitae, a brief statement of current research interest, and the names and addresses of three references to: Dr. Myoung. S. Park, Department of Medicine, University of Pennsylvania, 3600 Spruce Street, Philadelphia, PA 19104-6144. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITIONS AVAILABLE

The Department of Dermatology, University of Michigan, has openings for the study of growth regulation in human skin. Areas of interest include: receptor tyrosine kinases, growth factor gene regulation, retinoid and steroid receptors, and tissue-specific interactions. Ph.D.'s should have experience in molecular and/or cellular biology. M.D.'s desire research in molecular biology or carcinogenesis. Send curriculum vitae and one or two letters of reference to: Dr. Michael L. Murray, M.D., Ph.D., Department of Dermatology, University of Michigan, Ann Arbor, MI 48109. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

ANIMAL BIOLOGY

Available 1 October 1990. Identify molecular markers in mitochondrial DNA from dairy cattle and relate differences to phenotype traits. Previous training in molecular biology is preferred. Apparnt for this multidisciplinary position should send curriculum vitae, statement of research experience, and names of three references to: Dr. Donald C. Beitz, Departments of Animal Science/Biochemistry, University of Illinois, Urbana, IL 61801. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION

MULTIDISCIPLINARY RESEARCH

Applications are being solicited for a postdoctoral position in a multidisciplinary laboratory involving the study of molecular and cellular aspects of the immune response. We are interested in expanding our research efforts in immunology and molecular biology of vascular and inflammation animal and eye models. Selection of a candidate will be based on innovative research experience and interest. Position available 1990. Send curriculum vitae and names of three references to: Dr. Ed Mirsky, Department of Pathology, University of South Florida, College of Medicine, 9101 Bruce B. Downs Blvd., Tampa, FL 33612. An Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

Applications are being solicited for a postdoctoral position in immunology. The University of Florida College of Medicine is seeking a highly motivated individual to join an active, interactive research group in the Department of Microbiology to study molecular and cellular aspects of innate and acquired immunity. The successful applicant will be responsible for designing and conducting experiments that examine T cell receptor signaling events in T cell activation. Training and research experience with T cell biology is required. Early position availability is possible. Send curriculum vitae and names of three references to: Dr. Theresa M. Schreiber, Department of Microbiology and Immunology, Building 140, Washington University in St. Louis, St. Louis, MO 63110. An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

MOLECULAR BIOLOGY

Applications are being solicited for a postdoctoral position in a multidisciplinary laboratory involving the study of molecular and cellular aspects of the immune response. We are interested in expanding our research efforts in immunology and molecular biology. Please see: Dr. Gary R. Williams, Department of Biochemistry and Molecular Biology, University of Missouri, Kansas City, MO 64110. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

PHARMACOLOGY

Applications are being solicited for a postdoctoral position in a multidisciplinary laboratory involving the study of molecular and cellular aspects of the immune response. We are interested in expanding our research efforts in immunology and molecular biology. Please see: Dr. Gary R. Williams, Department of Biochemistry and Molecular Biology, University of Missouri, Kansas City, MO 64110. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION

MOLECULAR BIOLOGY

Applications are being solicited for a postdoctoral position in a multidisciplinary laboratory involving the study of molecular and cellular aspects of the immune response. We are interested in expanding our research efforts in immunology and molecular biology. Please see: Dr. Gary R. Williams, Department of Biochemistry and Molecular Biology, University of Missouri, Kansas City, MO 64110. Equal Opportunity/Affirmative Action Employer.
Plant Molecular Biology Research
BS or MS Scientist

DowElanco is a leader in the field of research-based agricultural products. We're currently seeking a BS or MS level Scientist for our Agricultural Biotechnology Laboratory. Joining an interdisciplinary team of biologists, biochemists and molecular biologists, you'll research problems involving gene transfer and expression in plant cells and whole plants.

Candidates should have 1-3 years experience in plant molecular biology and a strong background in biochemistry and cell biology. Relevant knowledge of DNA analysis, enzyme assays, and plant genetic transformation is preferred.

You will begin with us in Midland, Michigan and will relocate to a new state-of-the-art research facility in Indianapolis which is scheduled to be completed in the fourth quarter of 1992.

We offer a competitive salary and benefits package in an interactive goal-oriented environment. Please send your resume to: Technical Recruiting, Department DE-1, DowElanco, 1801 Building, Midland, MI 48674. An Equal Opportunity Employer M/F/H/V.

CHEMIST (MOLECULAR DYNAMICS)
GM-861-13 potential 14 or 14

The Air Force Office of Scientific Research located at Bolling Air Force Base in Washington DC invites applications from qualified US citizens with a background in molecular dynamics research. An earned PhD is desired. The successful applicant will plan, advocate and manage the Air Force basic research program in spectroscopy, chemical kinetics, collisional energy transfer, chemiluminescence, and laser chemistry. A broad knowledge of US and foreign research in these areas is desired. The position is competitive civil service GM-13/14 or 14 with a salary range at GM-13 from $42,601 to $55,381 or at GM-14 from $50,342 to $65,444 per annum. No prior Government service is required. Applications will be screened by the Civilian Personnel Office.

Send applications (SF 171) to:

Civilian Personnel Office
1776 ABW/MSCA
Ann. No. 90-314
Andrews AFB MD 20331-5964

Equal Opportunity Employer
Applications must be received by: 15 September 1990

FIVE FELLOWSHIPS AVAILABLE

The Merck Sharp & Dohme Research Laboratories, through its Academic Development Program, and the American Federation for Clinical Research Foundation announce the first competition for the MERCK-AFCR Foundation MD-PhD Postdoctoral Fellowships to support the further training of MD-PhD scientists.

FELLOWSHIP TERMS

- The candidate must have completed an MD-PhD educational program and be accepted into a postdoctoral training program.
- Fellowships are intended for independent research in the basic biomedical sciences, including the fields of biological chemistry, cellular, molecular, and structural biology, genetics, microbiology, immunology, pharmacology, physiology, and pathology.
- First-year support consists of a $40,000 stipend and $5,000 allowance for travel, journal subscriptions, and society memberships. In addition the university will receive a $7,000 grant for supplies related to the funded research. Indirect costs will not be allowed.
- The Fellowship is renewable for an additional two years.
- The Fellow should devote 80% of his/her time to research. Each Fellow will spend up to three days in the Merck Research Laboratories during his/her tenure as award recipient and present research results. Travel support will also be provided for the Fellow's mentor. The Fellow will also be expected to attend a Regional or National AFCR meeting each year and submit an abstract.
- Applicants should be citizens of the U.S. or Canada or permanent residents of the United States.

FELLOWSHIP APPLICATION TERMS

The applicant should submit original and 8 copies of the following to the AFCR's address below:

- A curriculum vitae and a one-page abstract of the proposed research;
- A proposal of 8 to 10 pages, including background and references;
- A statement of the applicant's career goals;
- Two letters of recommendation;
- Two reprints of published papers representative of the applicant's research; and
- A letter from the mentor describing how the proposed research will contribute to the development of the applicant as a creative scientist. The letter should state the name of the institution, the department, and its chairperson.

IMPORTANT DATES

The deadline for receipt of applications is October 1, 1990. Letters to Fellowship recipients will be mailed by January 1, 1991. The Fellowship will begin the following July 1st unless otherwise agreed.

SEND APPLICATIONS AND INQUIRIES TO:

MERCK-AFCR Foundation Postdoctoral Fellowships
Ms. Jean Haddock, Executive Director
6900 Grove Road
Thorofare, NJ 08086
Tele: (609) 848-7072; Fax: (609) 853-5991
RESEARCH SCIENTISTS AND ASSOCIATE PHARMACOLOGY

Amgen, an innovative leader in the development of human therapeutic products through application of biotechnology, has immediate opportunities in our Pharmacology group.

RESEARCH SCIENTISTS
Dept. #548
Candidates must have a Ph.D. in Pharmacology or related discipline and a minimum of two years' post-doctoral experience in the absorption, distribution and metabolism of drugs (preferably polypeptides and proteins). Previous experience in computerized pharmacokinetic modeling programs and knowledge of protein and peptide separation techniques are essential. Previous industrial experience is highly desirable.

RESEARCH ASSOCIATE
Dept. #547
Responsibilities include analysis of putative differentiation factors in the growth of human tumor cells in vitro and in vivo as well as participation in ongoing pharmacology research projects.

Applicants must have a BS or MS in Pharmacology or a related discipline as well as experience with in vivo and in vitro cell culture assay systems including growth and maintenance of epithelial or mesenchymal cells. Experience in immuno-histochemistry and PC-based data analysis systems is highly desirable.

Amgen offers a competitive salary and benefits package as well as a stimulating and challenging research environment on the leading edge of biopharmaceutical development. Our location, about an hour drive northwest of Los Angeles, offers the best in Southern California living in an attractive community with excellent air quality and free of traffic congestion. Qualified candidates should send a resume, in confidence, to:

AMGEN, INC.
Recruitment, Dept. # (please specify)
Amgen Center
Thousand Oaks
CA 91320-1789

Senior Research Pharmacologist

Dermatology Research

Hoechst-Roussel Pharmaceuticals Inc., a subsidiary of Fortune 100 Hoechst Celanese, has an immediate opportunity for a research professional to join its Dermatology Pre-clinical Research Laboratory.

As a strong team player, the ideal candidate will conduct innovative biochemical research directed to the discovery of drugs for the treatment of inflammatory and hyperproliferative skin diseases.

Heavy background in assay development and chromatographic (HPLC), enzymatic, receptor binding, tissue culture and radioisotopic techniques is essential. Experience with inflammatory mediator/leukotriene or cytokine research or leukocyte biology is a decided asset. And familiarity with in vivo models of acute and chronic inflammation or cutaneous hyperproliferation is a plus.

PhD required in cell biology, biochemistry, immunology, pharmacology or related field plus 1-2 years experience in an academic or industrial environment. Excellent interpersonal/speech and writing skills a must.

We offer a competitive salary, and an excellent flexible benefits package, including a 401K plan, and growth potential. For consideration, please send a resume with current earnings to: Jim Hamilton, Manager, Employment Dept 3139, Hoechst-Roussel Pharmaceuticals Inc., Route 202-206, P.O. Box 2500, Somerville, NJ 08876-1258. We are an equal opportunity employer M/F/H/V.

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1515 Broadway
New York, NY 10036
Ph.D. NEUROSCIENTISTS

Hoechst-Roussel Pharmaceuticals Inc., a fast-growing subsidiary of Fortune 100 Hoechst Celanese and world leader in Neuroscience Research, has immediate opportunities for Ph.D. scientists to make vital contributions to their Biological Research Group.

Candidates must have a Ph.D. in the appropriate discipline and 1-3 years post-doctoral experience. They must have strong interpersonal, verbal and written communication skills and be able to adapt to a multidisciplinary project-team environment focused on CNS drug development.

BIOCHEMIST/NEUROCHEMIST
This position is involved in the study of neuropeptide receptor function and regulation and requires a Ph.D. in Biochemistry with expertise in both protein biochemistry and enzymology.

NEUROPHARMACOLOGIST/NEUROCHEMIST
This position involves the evaluation of neurotransmitter release and uptake, using both in vivo and in vitro methods. Essential for this position is a background in molecular pharmacology utilizing neurochemical techniques such as RIA, HPLC-ED, in vitro release.

POST-DOCTORAL POSITIONS
We also have the following 1-year post-doctoral opportunities with a renewable 1-year option.

BIOCHEMIST/NEUROCHEMIST
Research will involve the enzymatic processing of preprohormones in CNS and requires expertise in protein biochemistry, and enzymology. A Ph.D. in Biochemistry, with cell biology and pharmacology training is required.

NEUROPHARMACOLOGIST
Research will explore new treatment therapies for schizophrenia and personality disorders with a focus on serotonin mechanisms in the CNS utilizing in vivo brain microdialysis and HPLC. A Ph.D. in Biochemistry, Pharmacology or a related discipline with related research experience is required.

If you would like to become part of our talented, highly-motivated neuroscience research team, please send your resume, with salary requirements to: Jim Hamilton, Mgr. Employment, Section 3602, Hoechst-Roussel Pharmaceuticals Inc., Route 202 & 206 North, Somerville, NJ 08876-1258. An Affirmative Action Employer M/F/H/V.

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POSITIONS OPEN

COLLAGEN MOLECULAR GENETICS

A POSTDOCTORAL FELLOWSHIP is available to study the molecular genetics of connective tissue disorders. The position is in the Collagen Molecular Genetics Laboratory at the Cedars-Sinai Medical Genetics Birth Defects Center. The major area of interest within the laboratory is the origin, structure, mechanism, and developmental timing of mutations in collagen genes.

Cedars-Sinai is a University of California, Los Angeles (UCLA)-affiliated research and teaching hospital and colleagues may participate in the UCLA intercampus training program in medical genetics. The Medical Genetics Birth Defects Center has a faculty with research interests in many areas including skeletal dysplasias and the molecular basis of disorders of bone and connective tissue, chromosome mapping, molecular hematopoiesis and oncology, molecular cytogenetics, prenatal diagnosis, immunogenetics, population genetics, genetics of common disorder. Applicants should submit their curriculum vitae and the names of three references to:

Dr. Daniel H. Cohn
Medicine Genetics Birth Defects Center
Steven Spielberg Building, 3rd Floor
Cedars-Sinai Medical Center
8700 Beverly Boulevard
Los Angeles, CA 90048

POSTDOCTORAL RESEARCH FELLOWSHIP Position is available on or before 30 June 1991 to study mechanisms of hormone signal transduction. Experience in molecular techniques is required and will be applied to the receptor cloning and expression. Send curriculum vitae and two letters of reference to: Dr. Ian Taylor, F.O. Box 3913, Duke University Medical Center, Durham, NC 27710. Telephone: 919-684-5066. Duke University is an American Equal Opportunity Employer.

POSTDOCTORAL RESEARCH: At the National Center for Toxicological Research (NCTR). Research efforts at NCTR, an FDA laboratory in central Arkansas, focus on understanding the assumptions used to assess risks posed by toxic chemicals emphasizing studies in biomarkers, modulators of toxicity, and extrapolation/risk assessment. Postdoctoral stipends begin at $31,750 per year. U.S. citizenship or FRA status required. Contact: Postgraduate Research Program at NCTR, Science/Engineering Education Division, Oak Ridge Associated Universities, F.O. Box 117, Oak Ridge, TN 37831-0117. Telephone: 615-576-3190.

UNIVERSITY OF PENNSYLVANIA POSTDOCTORAL RESEARCH ASSOCIATE

In human mucosal immunology available immediately to study gastrointestinal immunoregulation and alteration in bowel disease (Crohn disease, ulcerative colitis). Strong background in immunology and biochemistry (Ph.D.) preferred, experience in cell biology desirable. Studies will include the molecular characterization of human intestinal lymphocyte activation, cytokine secretion, and intestinal B cell immunoglobulin secretion. Funding by NIH training grant (U.S. citizens and permanent residents only). Please send curriculum vitae and three references with telephone numbers to: Richard P. MacDermott, M.D., Gastrointestinal Section, Department of Medicine, Room 600, Clinical Research Building, 42 Curie Boulevard, Philadelphia, PA 19104-6144. Please call 215-898-0161 for further information. Affirmative Action/Equal Opportunity Employer.

RESEARCH ENGINEER: The Microelectronics Laboratory at the University of Illinois at Urbana-Champaign seeks person to operate, maintain, and develop computer and train laboratory users. Requires BSEE or equivalent, familiarity with device fabrication, and knowledge of vacuum/computer systems. Familiarity with cleanroom protocol, beam lithography, and CAD desirable. Salary commensurate with qualifications. Regular, full-time position. Closing date: 4 September 1990. Starting date: 1 October 1990. Send letter of interest, applications and resume to: James Renshaw, Assistant Director, University of Illinois Microelectronics Laboratory, 208 North Wright Street, Urbana, IL 61801. Telephone: 217-333-3097. An Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ARS is seeking applications for a 2-year postdoctoral position to identify molecular genetic markers (RFLP) in diploid oats linked to genes for resistance to crown rust (Puccinia coronata). This project will complement an ongoing RFLP project in diploid oats to establish a base from which other areas of oat molecular biology are being developed. These areas include map-based cloning and the development of transformation systems in monocots. Candidate must have Ph.D. in genetics, molecular biology, plant pathology, or similar field. Experience in cloning, mapping, or plant transformation is desirable. Salary is $34,705. For information on the research program and position, contact: Dr. Roger Wise, USDA-ARS, Department of Plant Pathology, Iowa State University, Ames, IA 50011. Telephone: 515-294-9776, FAX: 515-294-1337. For information on application procedures/forms, contact: Janie Carr, 301-344-4569. Applications in response to this advertisement cannot be marked equal opportunity. Mailing address: USDA, Agricultural Research Service, Personnel Operations Branch, 6305 Ivy Lane, Room 325, Greenbelt, MD 20771.

An Equal Opportunity Employer.

POSTDOCTORAL/RESEARCH ASSOCIATE HEAT SHOCK PROTEINS

A postdoctoral/research associate position is available for at least 3 years to study the effect of heat shock on the structure and function of the nucleolus and ribosomal RNA transcription and processing in mammalian cells; the role of heat shock proteins, especially HSF-1, in this process will also be investigated. A good background in protein and nucleic acid chemistry is desirable. Salary is commensurate with experience. Please contact: Dr. Andrei Lazlo, Section of Cancer Biology, Washington University Medical Center, Box 8131, 4511 Forest Park, St. Louis, MO 63108-2136.

ASSOCIATE RESEARCH SCIENTIST/POSTDOCTORAL ASSOCIATE POSITION: Available immediately to join a multidisciplinary laboratory in the study of mechanisms of hormone-stimulated oncogene induction in a nontoxic animal model of gastric carcinoid tumorigenesis. Research involves generation and maintenance of carcinoid tumor in culture, study of tumor secretion, and investigation of mechanisms of hormone-stimulated oncogene amplification. Ph.D. or M.D. Ph.D. with 1 to 3 years of molecular biology experience preferred, but will consider candidates with solid graduate credentials. Please send resume and names of three references to: Joanna Golding, M.D., Ph.D., Surgical Research Laboratories, Department of Surgery, Yale University School of Medicine, 333 Cedar Street, New Haven, CT 06510. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE MOLECULAR BIOLOGY

A postdoctoral research associate position is available immediately at the U.S. Department of Agriculture (USDA), Agricultural Research Service (ARS), Plum Island Animal Disease Center, for research involving studies on the foot-and-mouth disease virus cellular receptor site [Baxt and Becker, Virus Genes 4, 73 (1990)]. Experience with monoclonal antibody techniques is essential. Expertise in membrane biochemistry and peptide synthesis and purification is desired. The position is fully funded and research is performed in laboratories providing the latest equipment. High-speed ferry service is available to Plum Island from either Long Island or Connecticut. Applications are accepted for up to 2 years and are funded at $39,951 to $53,825 depending on qualifications. Applicants should send curriculum vitae and the names and addresses of three references to: Dr. Barry Baxt, USDA, ARS, NAA, Plum Island Animal Disease Center, P.O. Box 848, Greenport, NY 11944. FAX: 516-323-2507. For information, call: 516-323-2500, ext. 276. Applications will be accepted until the position is filled.

ARS is an Equal Opportunity Employer. Women and minorities are encouraged to apply.

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**U.S. PUBLIC HEALTH SERVICE**

**ANIMAL RESEARCH COORDINATOR**

The Alcohol, Drug Abuse, and Mental Health Administration (ADAMHA) has an immediate opening for a senior scientist/staff specialist who will serve as the Agency coordinator, and as the senior advisor to the Administrator, for animal research issues. The incumbent will formulate and recommend Agency and PHS scientific/management policies in this area, public education initiatives, and collaborative efforts and networks with scientists and research administrators.

This position will be filled at the GS-14/15 level, with an annual salary range of $50,342 to $78,200. Physicians may be eligible for an additional Physician's Comparability Allowance of $8,000 - $20,000 annually. The position may also be filled through appointment in the PHS Commissioned Corps. Desirable qualifications include: 1) advanced scientific/health education (M.D. or Ph.D. preferred) and experience demonstrating knowledge of animal research methods and applications; and/or 2) extensive management experience within a scientific or academic/research environment. Research program planning and policy analysis experience, superb communication skills, and an understanding animal research issues are also essential.

This position is located in Rockville, Maryland and offers full Federal benefits. Relocation expenses may also be paid. U.S. Citizenship is required. Send Application for Federal Employment (SF-171)/resumes to: Ms. Mary Jane Meyers, ADAMHA Personnel Office, Rm. 15C-12, 5600 Fishers Lane, Rockville, MD 20857 (Telephone: (301) 443-5407). Applications must be postmarked by August 24, 1990.

ADAMHA IS AN EQUAL OPPORTUNITY EMPLOYER

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**POSTDOCTORAL FELLOW**

**MOLECULAR AND CELLULAR NEUROBIOLOGY**

Burroughs Wellcome Co., an innovative pharmaceutical company with a top reputation for research, has a postdoctoral position available in the Division of Cell Biology involving the study of:

**DNA-protein interactions which regulate the expression of neuronal protein kinases and neuronal differentiation.**

Candidates must have a Ph.D. or M.D. with training in biochemistry, molecular biology, cell biology, or neurobiology.

Burroughs Wellcome Co. offers top benefit programs along with competitive salaries. If you are interested, submit your curriculum vitae, indicating position #62185-4 in your cover letter, by October 15, 1990 to: Burroughs Wellcome Co., Scientific Recruiting and Staffing, Pos. #62185-4, 3030 Cornwallis Road, Research Triangle Park, NC 27709.

For information on job opportunities with Burroughs Wellcome Co. at Research Triangle Park, call our Job Information Line at (919)248-8347 from any touch tone phone.

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**GLAXO INSTITUTE FOR MOLECULAR BIOLOGY**

The Geneva molecular biology research Institute of one of the world's most successful healthcare groups is offering a

**POSTDOCTORAL FELLOWSHIP IN MOLECULAR NEUROBIOLOGY**

The project will focus on the establishment of neuronal cell lines and the ideal candidate will have a proven record in the cloning of genes, characterisation of promoter elements and mammalian cell culture. Experience with the analysis of transgenic mice would be an advantage.

The Glaxo Institute for Molecular Biology carries out long term research to support the company-wide effort to discover effective new medicines. It provides a dynamic research environment, and encourages the publication of scientific results as well as collaborative projects with academic groups.

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

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

POSTDOCTORAL RESEARCH ASSOCIATE

A position is available for a recent doctorate in synthetic organic chemistry to join the Cyclotron-PET Program at the University of California, Los Angeles. The candidate will be expected to develop new organic synthesis methods for incorporating the short-lived positron emitters carbon-11 and fluorine-18 (t1/2 = 20.4 min and 110 min, respectively) into organic molecules. In this position there will be broad interaction with a large multidisciplinary team of scientists whose research focus is on the study of radiolabeled biomolecules in the living human and animal brain and heart using positron emission tomography (PET). Specific interests include the development of rapid synthetic methods for the fluorination of organic molecules and for incorporating one-carbon precursors into complex organic molecules. However, emphasis is placed on broad knowledge of modern synthetic organic chemistry.

Applicants should send resume and transcripts, and request that three letters of recommendation be forwarded to: Dr. Alfred P. Wolfe, Department of Chemistry, Brookhaven National Laboratory, Associated Universities, Inc., Upton, Long Island, NY 11973.

Equal Opportunity Employer, M/F.

RESEARCH ASSOCIATE IN CHEMISTRY

Ph.D. in organic/biogenic chemistry with minimum of 2 years research experience as described. Applicants must be capable of synthesizing, analyzing, and preparing novel compounds. Experience in the isolation of DNA and RNA from higher eukaryotic organisms is desirable. Experience in mutagenesis of genes and transfection of mammalian cells is desirable. Proven accomplishment in the areas described is expected. Experience in computer analysis of data, with emphasis on the use of HPLC, GC, GC/MS, and NMR, is essential. Salary: $31.80 per hour. Send resume to: MIF 1-012, 14620 Stockton Drive, Los Alamos, NM 87545.

CHOICE RESEARCH TECHNICIAN

Current opening for a chief research technician in the Biomedical Physics Department of the King Faisal Specialist Hospital and Research Centre in Riyadh, Saudi Arabia. Must be capable of supporting all aspects of mammalian cell cultures including in vitro and in vivo systems. Experience in radiation biology would be desirable. Minimum of 5 to 7 years of mammalian research experience with B.S. degree in appropriate science (some reduction of experience requirement possible with M.S. degree). Position requires an applicant with excellent experience working in the area of low-frequency variability. Demonstrated ability to work in the fields of climate dynamics and global change is required. Expertise in the mathematical analysis and numerical simulation of atmosphere and ocean models as well as in the physical interpretation of the results. Experience in the use of nonlinear dynamics in PIV research. Salary: $39,300 per year. Job location/interview: Los Angeles, California. Please send this ad and resume to: Job# CC16817, P.O. Box 8, Sacramento, CA 95823-0560, no later than 25 August 1990.

VEGETATION OR CLIMATE MODELER

The University of Maine seeks applicants for a new, tenure-track faculty position in either vegetation modeling or climate modeling, with special emphasis on use of palaeoclimatological or palaeoclimatic data. The successful candidate will have a joint appointment in the Institute for Quaternary Studies and an appropriate academic department, and will be expected to develop a strong program of teaching and research with particular emphasis on global climate change. Application deadline is 15 September 1990, or until suitable candidate is found. A cover letter and curriculum vitae should be sent to: Dr. G. L. Jacobson, Institute for Quaternary Studies, University of Maine, Orono, ME 04469. An Equal Opportunity Employer. Minorities and women are encouraged to apply.

VIROLOGIST/MOLECULAR BIOLOGIST

At Henry Ford Hospital. A position in the Division of Infectious Diseases offering the opportunity for a major commitment to research. The candidate must have 3 to 5 years of postdoctoral training. Salary and benefits package with appointment commensurate with level of qualifications and academic achievement. The division has a commitment to AIDS and other diseases with funded clinical and epidemiological NIH studies. The institution also has several molecular biology laboratories that should contribute significantly to the candidate's research. The candidate should have completed research in the area of HIV or another virus by 1 January 1991. Send a letter of interest with curriculum vitae to: Dr. L. Sarovatsad, Division of Infectious Diseases, Henry Ford Hospital, 2799 West Grand Boulevard, CF104, Detroit, MI 48202.

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Applications are invited for the following appointments in the Faculty of Medicine:

### Pre-clinical and Clinical Appointments

<table>
<thead>
<tr>
<th>Subject</th>
<th>Position</th>
<th>Posts</th>
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</thead>
<tbody>
<tr>
<td>Anatomy</td>
<td>Professor/Associate Professor (Gross Anatomy)</td>
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<tr>
<td>Biochemistry</td>
<td>Assistant Professor (Preference to Molecular Biology)</td>
<td>2</td>
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<tr>
<td>Microbiology</td>
<td>Associate/Assistant Professor (Mycology)</td>
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<tr>
<td>Pathology</td>
<td>Associate/Professor (Clinical Chemistry)</td>
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<tr>
<td>Pharmacology</td>
<td>Assistant/Associate Professor (Biochemistry of intracellular second messenger)</td>
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<td>Assistant/Associate Professor (Cardiovascular research)</td>
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<tr>
<td>Physiology</td>
<td>Associate/Assistant Professor (Neuropsychiologist)</td>
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<td>Associate/Professor (Cardio-vascular Physiologist)</td>
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<tr>
<td>Gynaecology &amp; Obstetrics</td>
<td>Professor (Neonatal Obstetrics)</td>
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<td>Professor (Endocrinology and Infertility)</td>
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<td></td>
<td>Associate Professor (Oncology &amp; Urology)</td>
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<td></td>
<td>Assistant Professors (General Obstetrics &amp; Gynaecology)</td>
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<tr>
<td>Medicine</td>
<td>Associate/Assistant Professor (Infectious Diseases)</td>
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<td>Associate/Assistant Professor (Respiratory)</td>
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<td>Assistant/Associate Professor (Haematology)</td>
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<td>Nuclear Medicine</td>
<td>Associate/Assistant Professor (Clinical Nuclear Medicine Physician)</td>
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<td>Associate/Professor (Visiting Professor)</td>
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<td>Organ</td>
<td>Assistant/Associate Professor (Transplant Surgery)</td>
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<td>Assistant/Associate Professor (Transp. Anaesthesia &amp; Intensive care)</td>
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<td>Assistant Professor (Experimental Surgery)</td>
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<td>Pediatrics</td>
<td>Assistant/Associate (Pediatric Allergy &amp; Clinical Immunology)</td>
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<td>Assistant/Associate (Neonatology)</td>
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<td>Assistant/Associate (Molecular Biologist)</td>
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<td>Assistant/Associate (Pulmonary Medicine)</td>
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<td>Assistant/Associate (Pediatric Critical Care Medicine)</td>
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<td>Assistant/Associate (Emergency Medicine)</td>
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<td>Assistant/Associate (Pediatric Cardiology)</td>
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<td>Assistant/Associate (Genetics)</td>
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<td>Assistant/Associate (Infectious Disease)</td>
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<tr>
<td>Psychiatry</td>
<td>Associate/Assistant Professors (Teaching and clinical services, Arabic speaking)</td>
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<tr>
<td>Radiology</td>
<td>Professor</td>
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<td>Assistant/Associate Professors</td>
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<tr>
<td>Surgery</td>
<td>Assistant/Associate Professor (Anaesthesia)</td>
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<td>Associate/Professor (Orthopedic)</td>
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<td></td>
<td>Associate/Professor (Urology)</td>
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### Requirements for Appointment:

Qualifications: Applicants should possess a Ph.D or an equivalent high professional qualification i.e., FRCS/MRCP/MRCOG/MRCPath/MD/American Board in their respective specialty and have conducted and published research in their field.

Experience: Professors – 14 years (4 as an Associate Professor), Associate Professors – 9 years (4 as an Assistant Professor).

### Conditions of Appointment:

Salaries: Total monthly salaries will be within the following scales according to qualifications and experience (1 KD = 2.3 Sterling Pound, US$ 3.50 approximately). Increment per year KD. 20/-

**— Professors:**

- With clinical appointments = KD.1210–1370 (8 increments)
- Medically qualified with a Ph.D in medical science = KD.1140–1300 (""")
- Non-medically qualified = KD.1070–1230 (""")

**— Associate Professors:**

- With clinical appointments = KD. 989–1149 (8 increments)
- Medically qualified with a Ph.D in medical science = KD. 932–1092 (""")
- Non-medically qualified = KD. 875–1035 (""")

**— Assistant Professors:**

- With clinical appointments = KD. 768–928 (8 increments)
- Medically qualified with a Ph.D in medical science = KD. 724–884 (""")
- Non-medically qualified = KD. 680–840 (""")

### Other Allowances:

- Social allowance will be paid in addition to the monthly salary as per the University regulations.
- Clinical allowance from the Ministry of Public Health for 10 months a year (i.e., the University Academic year from September to end of June) for clinical service commitments as follows:
  - Professor and Chairman: KD. 450
  - Professor: KD. 400
  - Associate Professor: KD. 300
  - Assistant Professor: KD. 200

### Other Benefits:

- Conference attendance, Gratuity. Furnished accommodation (electricity and water free of charge). Free medical treatment in Kuwait.
- Free annual roundtrip air tickets from Country of citizenship or permanent residence for self and family up to three dependent children. Baggage and freight allowance. Education fees for maximum three children in Kuwait from elementary through high school. No taxation. Currency is transferable without restriction. 60 days paid annual leave.

### Method of Application:

Curriculum vitae in duplicate which should include the names of 3 referees; personal particulars; copy of the relevant pages of passport; qualifications with dates; career history; teaching experience, research accomplishments and, where appropriate clinical experience should be sent to: THE VICE-DEAN ADMINISTRATION (RECRUITMENT OFFICE), FACULTY OF MEDICINE, UNIVERSITY OF KUWAIT, P.O. BOX 24923 SAFAT, 13119 SAFAT KUWAIT—to arrive NO LATER THAN 15TH NOVEMBER 1990.
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