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Application of Biotechnology: Environmental and Policy Issues

Edited by John R. Fowle III, Office of Health Research, U.S. Environmental Protection Agency

As new advances in biology permit the development of genetically engineered organisms with commercial applications, tough ethical questions arise. This book discusses current knowledge about levels of risk, information needed to provide assessment data, and ways to proceed along the frontiers of biotechnology. Beginning with a description of the socio-historical context of the subject, the volume addresses — from diverse viewpoints — the relevant scientific and social issues, including the concern over possible environmental release of these new organisms.

$25.00; AAAS members $20.00 (include membership number from Science). 242 pp., 1987. AAAS Selected Symposium 106.

Order from: Westview Press, Dept. AAAS, 5500 Central Avenue, Boulder, CO 80301. (Add $2.50 postage and handling for the first copy, 75 cents for each additional copy; allow 4–6 weeks for delivery.)

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ASSISTANT PROFESSOR IN FOREST SCIENCE—The Department of Forest Science in the Faculty of Agriculture and Forestry is seeking to fill a 12-month, tenure-track position either in tree physiology, forest ecology, or silviculture. Effective research and teaching record are required for tenure and promotions. A typical annual teaching load would be one course in the core forestry program and one to two courses in the graduate program. Assistant Professor salary range: $32,564 to $47,280. A Ph.D. is required. Starting date: 1 January 1989. Interested applicants should send curriculum vita, names of three referees, and reprints of up to three publications to: Dr. James Beck, Chairman, Department of Forest Science, 817 General Services Building, University of Alberta, Edmonton, Alberta, Canada T6G 2H1. Telephone: 403-447-4413. Deadline: 1 November 1988. In accordance with Canadian Immigration requirements, priority will be given to Canadian citizens and permanent residents of Canada. The University of Alberta is committed to the principle of equity in employment.

ASSISTANT PROFESSOR IN-RESIDENCE PROGRAM COORDINATOR

The University of Connecticut's Undersea Research Program announces an opening for a "Large Lakes of the World" Program Coordinator/Assistant Professor-In-Residence. The position entails coordinating large lake underwater research, international in scope; defining research goals, proposal preparation, budget preparation, coordination, communication, composition of quarterly and annual reports, conducting and participating in diving operations, overseeing student labor and conducting and managing research. Minimum qualifications are a Ph.D. in aquatic sciences, and several years of SCUBA and manned submarines underwater research experience functioning as a Principal Investigator. Knowledge of computer hardware and software and the knowledge of the U.S. Great Lakes ecology and experience in Great Lakes research are also required. Desired additional qualifications include teaching experience in earth sciences. Salary range is $30,000 to $32,000 commensurate with experience. Send resume with names and addresses of three references to: Dr. Richard A. Cooper, Director, National Undersea Research Program, The University of Connecticut at Avery Point, Groton, CT 06340. Screening to begin 12 January 1989. (Search #84421). Equal Opportunity Employer.

ASSISTANT RESEARCH PROFESSOR. The Department of Biochemistry is seeking a person with significant experience in the characterization of proteins and their derivatives. The successful candidate will be involved in research on protein interactions by various physical means, including analytical ultracentrifugation, viscosity, light scattering and uv and fluorescence spectroscopy. A Ph.D. in biochemistry and postdoctoral experience for 3 years or more preferred. Experience with milk proteins a definite plus. Salary range $32,000 to $40,000 per year. Only U.S. citizens or permanent residents should provide curriculum vita and names of three references by 19 August 1988. Send applications to: Dr. Charles Slattery, Department of Biochemistry, Loma Linda University, Loma Linda, CA 92350.

ASSISTANT PROFESSOR. Tenure-track position open in the Department of Chemistry of Florida State University for candidates with a strong background in physical chemistry. Applications must be received by 15 December. Salary range: $27,000 to $32,000. Start date: 1 August 1989. Interested applicants should send curriculum vita and names of three references to: Professor G. R. Choppin, Department of Chemistry, Florida State University, Tallahassee, FL 32306–3066. Equal Opportunity/Affirmative Action Employer.

The Department of Chemistry of The University of Chicago invites applications from outstanding individuals for ASSISTANT PROFESSOR (tenure-track) faculty positions in the area of industrial and organic chemistry. The position is open to individuals who have completed or are expected to complete a Ph.D. by 1 September 1989. The successful candidate will be expected to develop an active research program and to teach courses in the areas of synthetic organic chemistry, bioorganic chemistry, and chemical education. The starting date is negotiable; the position is available either in the fall of 1989 or the fall of 1990. A Ph.D. must be completed or near completion by the start of the position. The University of Chicago is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSOR POSITIONS DIVISION OF PHYSIOLOGY DEPARTMENT OF CELL BIOLOGY DUKE UNIVERSITY MEDICAL CENTER

Two tenure-track appointments are available to candidates with a Ph.D. and/or M.D. who have postdoctoral experience and are strongly committed to a program in the areas of systems and integrative physiology. Preference will be given to candidates whose research will supplement existing programs in cell biology and physiology. Teaching responsibilities will include teaching in the areas of respiratory physiology, cardiovascular and renal physiology. The ability to participate in the graduate and medical school courses in these areas is essential. Applicants should send curriculum vitae, names of at least two references to: Professor William L. Burkholder, Department of Physiology, Duke University Medical Center, Box 3709-E, Durham, NC 27710. Duke University is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT/ASSOCIATE PROFESSOR DEPARTMENT OF PHYSIOLOGY

Applications are invited for a tenure-track position in the Department of Physiology of the Ohio State University College of Medicine. Candidates with a promising or established investigative program using a cellular/molecular approach, including traditional and cell-based research, and an understanding of cardiovascular and renal physiology, are encouraged to apply. The department has approximately 45 faculty members, and there is a strong emphasis on research, teaching, and service. Interested applicants should submit curriculum vitae, a brief description of research interests, and the names of four referees to: Dr. Robert J. Cooper, Chairman, Department of Physiology, 400 North 10th Avenue, Columbus, OH 43210. Applications should be received before 19 September 1988. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

BIOCHEMICAL TOXICOLOGIST

Northeastern University College of Pharmacy and Allied Health Professions is seeking applicants for a full-time tenure-track position at the level of assistant professor of toxicology beginning 1 April 1989 or 1 July 1989. Candidates will be expected to be active in research and teaching in the area of environmental toxicology. The successful candidate will be expected to establish an independent, extramurally funded research program in the area of toxicology, as well as to participate in the teaching of undergraduate and graduate toxicology courses, seminars, and clinics. The successful candidate is expected to work closely with members of the toxicology program and with other faculty members in the College of Pharmacy and Allied Health Professions. Salary range is $30,000 to $32,000 per year. The appointment is renewable. Application must be submitted by 1 May 1989. Interested candidates should send curriculum vitae, a brief description of research interests, and the names of three references to: Dr. G. E. Kavanagh, Chairman, Toxicology Program, Morgan Hall, Northeastern University, 860 Huntington Avenue, Boston, MA 02115. Equal Opportunity Employer.

ASSOCIATE CHIEF OF STAFF/ RESEARCH AND DEVELOPMENT VA MEDICINE SAN DIEGO, CALIFORNIA

The San Diego Veterans Administration Medical Center (VAMC) is seeking highly qualified candidates for the position of Associate Chief of Staff (Academic) for Research and Development. The VA Medical Center is the nation's oldest hospital fully affiliated with the University of California, San Diego School of Medicine. The successful candidate will be appointed to the VA at the appropriate academic rank in the appropriate Department. The primary function of the position is administration of the Medical Center's R&D Program which includes assisting investigators in all administrative, scientific, and technical matters pertaining to the conduct of their research. It is essential that candidates for the position be nationally recognized scientists with well established records of research productivity who have received research funding from peer reviewed sources. Candidates should also have significant administrative experience and experience with the Veterans Administration Research Service is desirable, but not essential. Candidates should submit VA application form for physicians (VA Form 10-2850) and curriculum vitae with bibliography and history of all VA and extra-VA research support. Applications should be forwarded to: Dr. Robert S. Reynolds, Chairman, Search Committee (ACOS/R&D) (111G), VA Medical Center, 3350 La Jolla Village Drive, San Diego, CA 92161. The San Diego VA Medical Center and UCSD are Affirmative Action/Equal Opportunity Employers.

BIOCHEMISTRY FACULTY POSITION UNIVERSITY OF WISCONSIN—MADISON

The Biochemistry Department, University of Wisconsin—Madison invites applications for a tenure-track position at the assistant professor level. We are particularly interested in applications from individuals whose research emphasizes chemical approaches to fundamental problems in biochemistry. Potential areas include enzymology, biorganic chemistry, the chemistry of proteins, nucleic acids, complex carbohydrate biochemistry, and biophysical studies of low-molecular weight compounds. The successful candidate is expected to develop a vigorous independent research program and participate in the undergraduate and graduate teaching programs of the department. Applications, including curriculum vitae, list of publications, summary of past work and accomplishments and a statement of plans for future research, should be sent to: Professor William S. Rensholtz, Chairman, Department of Biochemistry, University of Wisconsin—Madison, 420 Henry Mall, Madison, WI 53706. Equal Opportunity/Affirmative Action Employer.

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BIOCHEMISTRY/MOLECULAR BIOLOGY FACULTY POSITIONS UNIVERSITY OF HOUSTON

The Department of Biochemical and Biophysical Sciences invites applications for tenure-track junior or senior faculty positions. Clear evidence of research ability and scholarship are essential requirements. Individuals with expertise in the areas of structural biochemistry and theoretical or experimental molecular biology are preferred. The successful candidates will be expected to maintain an independent, funded research program and to participate in the departmental teaching program. Send a curriculum vitae, statement of research interests and goals, representative reprints, and three letters of reference to: Dr. Joseph Eichberg, Department of Biochemical and Biophysical Sciences, University of Houston, Houston, TX 77204-5500. An Affirmative Action/Equal Opportunity Employer.

CELL BIOLOGIST McILL UNIVERSITY

The Department of Biology invites applications for a tenure-track position at the assistant professor level, effective 1 September 1989, or earlier. We seek a cell biologist using molecular and/or genetic approaches to study cell structure and function. Applications are invited from all, although, in accordance with Canadian immigration regulations, applications from Canadian citizens or permanent residents will be considered first. Send curriculum vitae, statement of research interests and goals, representative reprints, and three letters of reference to: Dr. Barid Mukherjee, Chairman, Department of Biology, McGill University, 1205 Avenue Doctor Penfield, Montreal, Quebec, Canada H3A 1B1. Deadline: 15 October 1988.

CHAIR CARDIOVASCULAR RESEARCH

The Faculty of Medicine at the University of Alberta is seeking to fill an Endowed Chair funded by the Alberta Heart and Stroke Foundation. The successful candidate will possess an M.D. or a Ph.D. degree (or both) and have a proven track record in Cardiovascular Research. The search is not limited to any specific area and may include: Cardiology (including epidemiology), electrophysiology, cardiovascular surgery and stroke research. The Faculty of Medicine has a rapidly increasing research budget which currently exceeds $2 million. A new research building will be opened this year, and a second faculty will be completed in 1989. A Cardiovascular Disease Research Chair has been established which includes molecular biologists interested in cardiac muscle and vascular biology, and vascular and renal research. The Faculty has strong facilities in protein chemistry and immunology. The University of Alberta Hospitals is the regional centre for cardiac transplantation and pediatric cardiology. The successful candidate will be expected to be a senior investigator at the level of Professor, more junior investigators with excellent track records are also encouraged to apply. The position comes with substantial start-up funds.

Please reply by 31 October 1988 to: Dr. Mark J. Poznansky Associate Dean (Research) Faculty of Medicine University of Alberta Edmonton, Alberta Canada T6G 2R7

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5 AUGUST 1988

RESEARCH ASSOCIATES

MOLECULAR BIOLOGY

The Squibb Institute for Medical Research is recognized internationally as a leader in the research and development of novel pharmaceuticals. We have recently established a Molecular Biology Department to study the molecular basis of human cancer. Researchers in the fields of oncogenes, growth factors and their receptors and genes involved in the control of cell proliferation will be of primary interest. Exceptional opportunities for experienced research associates are available in the following areas:

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The successful applicant will have a Ph.D. in Molecular Biology, Cell Biology or related areas and 1-3 years post-doctoral experience. Extensive practical and theoretical knowledge of immunoglobulin gene regulation, sequencing expression and modification as evidenced by publication history is required. Direct experience with the construction of chimeric antibodies is highly desirable.

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Columbia University, Department of Psychology, announces two FACULTY OPENINGS in the general area of Social-Personality Psychology. One position is at the level of tenured associate or full professor, the other is for a recent Ph.D. at the assistant professor level. For the senior position, we seek a person with an established record of significant scientific accomplishment. For the junior position, we seek an individual who has demonstrated exceptional promise for excellence as a scholar-scientist. Successful applicants for both positions must also be excellent teachers at the undergraduate and graduate levels. Applicants should submit their curricula vitae and the names and addresses (only) of at least three individuals willing to write letters of recommendation to: Personnel Search Committee, Department of Psychology, Schermerhorn Hall-Box 29, Columbia University, New York, NY 10027. Minority members and women are encouraged. Columbia University is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITIONS

DEPARTMENT OF BIOCHEMISTRY AND MOLECULAR BIOLOGY

THE UNIVERSITY OF CHICAGO

The Department of Biochemistry and Molecular Biology at The University of Chicago wishes to invite applications and nominations for several tenure-track or tenured faculty positions to be filled within the next few years. It is hoped that at least two positions will be filled in the 1988 to 1989 academic year. Candidates should have a doctoral degree, significant postdoctoral research experience, a strong record of research accomplishment and demonstrable potential for the development of an independent research career in an academic setting. We are seeking individuals with research interests in any area of modern biochemistry and molecular biology including nucleic acid biochemistry, protein-nucleic acid interactions, DNA replication and transcription, membrane and cell biology, molecular genetics and gene regulation, transmembrane signaling, physical biochemistry, structural biology, and molecular structure and dynamics. Applications should include curriculum vitae, a list of publications, a summary of current research activities and future research plans, and the names of at least four individuals from whom letters of reference may be solicited. While we have no formal deadline, candidates should submit their applications by 15 October 1988. Please send applications or nominations to:

Marvin W. Makinen
Department of Biochemistry and Molecular Biology
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Applicants should have an M.D./Ph.D. or equivalent, preferably in a medical or health science field, and at least 10 years of highly substantive related experience, or MA/MS/MBA/MPA or equivalent and approximately 15 years of experience. Qualifications also include recognized expertise in relevant areas of health care or medicine, demonstrated effectiveness in management of major programs of research or policy analyses, and demonstrated oral and written communication ability with staff and a broad constituency of research, government, academic and committee members.

Applicants are invited to submit a C.V./résumé as soon as possible to Charles H. Starriper, Director of Personnel and Appointments. All responses must be received by September 15, 1988.

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PROVOST AND VICE—PRESIDENT ACADEMIC AFFAIRS
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Nominations and applications are invited for the position of Provost and Vice President for Academic Affairs at Worcester Polytechnic Institute, an innovative College of Science and Engineering located in Central Massachusetts with an enrollment of 2,500 undergraduate and 400 full-time graduate students.

Candidates should have an earned Doctorate, a record of excellence in teaching/research/administration, proven academic leadership skills, excellent interpersonal skills, and a commitment to academic excellence. The successful candidate must be eligible to hold a tenured position in one of the College’s academic programs.

The Provost and Vice-President for Academic Affairs reports to the President and, as chief Academic Officer of the College, is responsible for monitoring and recommending to the President academic appointments and the granting of tenure and promotion. The Provost is also responsible for the review, development and evaluation of academic policies, standards, and budget.

Letters of application or letters of nomination should be received no later than November 15, 1988, and should be addressed to:

Provost Search Committee
c/o Human Resources Department
Worcester Polytechnic Institute
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Worcester, Massachusetts 01609
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Cell Biology and Tissue Culture

This position requires an experienced scientist (Ph.D. with at least two years of postdoctoral or industrial research experience) in the field of cell biology and mammalian cell culture. Areas of research include: cytotoxicity and efficacy testing of immunoconjugates on cultured cells; mechanisms of interaction of cells by immunotoxins and natural protein toxins; development and optimizing conditions for culturing cell lines. The candidate must have a desire to carry out independent research while functioning as part of an interdisciplinary research team.

Biochemistry and Protein Chemistry

Applicants for this position will have a Ph.D. in Biochemistry and at least two years of postdoctoral or industrial experience and will be familiar with analytical and preparative methods for the purification and modification of proteins. The successful candidate will be involved with research and development of immunotoxins and will join an interdisciplinary research team, but will have a strong desire to carry out independent research.

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Duke University Medical Center
Duke University is seeking candidates for the position of Professor and Chairperson of its newly created Department of Neurobiology. The Department of Neurobiology will occupy space in the newly constructed Joseph and Kathleen Bryan Building for the Neurosciences and most of the faculty will be recruited by the Chairperson. Responsibilities of this position include providing leadership for research and teaching activities in the School of Medicine. The Chairperson will also guide the University — wide graduate and undergraduate Program in Neuroscience. The University is seeking a distinguished neuroscientist who will encourage the development of research programs in cellular, molecular and developmental neurobiology. Minimal qualifications include an earned doctorate in a related discipline, an established research program in neurobiology, administrative experience in an academic environment and a demonstrated ability to work collaboratively in a university medical center and with external constituencies. This position will be available in the fall of 1989.

Applicants should send a copy of their curriculum vitae with two references to: Neurobiology Search Committee, Box 3701, DUKE UNIVERSITY MEDICAL CENTER, Durham, North Carolina 27710.

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THE DEPARTMENT OF PATHOLOGY
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Dr. Bernard Coupal
Director
Biotechnology Research Institute
6100 Royalmount Avenue
Montreal, Quebec
H4P 2R2

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INTEGRATED PEST MANAGEMENT COORDINATOR—Assistant Professor of Entomology.

The Division of Entomology, University of Idaho, invites applications for the tenure-track position of Extension Integrated Pest Management Coordinator, to be located in Pocatello, Idaho. Responsibilities include integration of pest management and crop management systems, and a strong component of extension. Qualifications: Ph.D. in Entomology or a closely related biological science, with emphasis in interdisciplinary plant protection and extension program development, knowledge of the role of insects in agriculture, and practice of integrated pest management and crop management, and a strong commitment to agriculture, are required. In addition, applicants must be U.S. citizens or permanent residents. Successful candidates will have experience with expert system and artificial intelligence, and field experience in entomology, plant pathology, weed science, or nematology. The position, under the coordination of the IPM programs in cooperation with an expert support systems analyst, the development and implementation of new extension delivery systems involving database management and computerized decision support systems, and providing leadership for the continuing development and operation of the National Agricultural Pest Information System, a statewide computer-based interoperability pest survey and detection program.

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University of Geneva Medical School seeks a LECUTURER IN HUMAN MACROSCOPIC ANATOMY, tenure-track position. Requirements: M.D. and demonstrated ability to teach. Send curriculum vitae to: The Director, Department of Anatomy, University of Geneva Medical School, 1211 Genève 4, Switzerland.

MARINE GEOLOGIST/GEOCHEMIST—The College of Marine Studies, University of Delaware, invites applications for a faculty position in geological oceanography. The position is available immediately and is a 12-month, tenure-track position at the assistant or associate professor level. We are looking for a chemical sedimentologist with experience in the coastal zone and with expertise in stable isotope or organic geochemistry. The successful candidate is expected to collaborate with geologists in the college and with other organizations to develop new research programs. Responsibilities will include the development of a vigorous research program, graduate-level teaching, and student advising. Send a letter of interest describing your research interests and background, current curriculum vitae, and the names and addresses of three references to: Dr. George W. Luther, III, Search Committee Chairman, College of Marine Studies, University of Delaware, Lewes, DE 19958. The closing date is 30 September 1988. The University of Delaware is an Affirmative Action/Equal Opportunity Employer.

MOLGENETICIST (WITH DEPARTMENT OF GENETICS)

UNIVERSITY OF GEORGIA

The Department of Genetics at the University of Georgia is seeking two molecular geneticists for tenured-track positions available January 1989. The research areas and the responsibilities are as follows:

1. The first position is a Phil D. in a plant molecular genetics, molecular biology, or plant ecology, with interest in a research area to be determined by the department. Responsibilities include: teaching graduate and undergraduate levels; developing an independent research program; participating in research activities of the department; and serving on manuscript review panels. The closing date is 15 October 1988. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

2. The second position is a Ph.D. in a research area in molecular biology, with specialization in prenatal diagnosis, with an emphasis on research on the solid-state movement, and a desire to have a position teaching undergraduate and graduate students. Responsibilities include: teaching graduate and undergraduate levels; participating in research activities of the department; serving on manuscript review panels; and serving on committees of the department. The closing date is 15 October 1988. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

The University of Adelaide South Australia invites applications from both women and men for a tenured position in the Division of Botany. The Department wishes to expand knowledge in the biology of native plant populations. It is looking for applicants who are botanists with research interests in floral, population, reproductive or systematic plant biology and a knowledge of the tools of modern molecular biology as applied to higher plant populations. Growth soils, natural and preferably low-rainfall conditions. The appointee will be expected to participate in undergraduate and postgraduate teaching and supervising a research student. The opportunity to undertake postdoctoral work is available. Applications in duplicate, quoting reference number 1607, giving personal particulars (including whether candidates hold Australian permanent residency status), references, and a research statement should be sent to: The Registrar, University of Adelaide, GPO Box 498, Adelaide, South Australia 5001, Telex UNIVAD AA 49141 or by 15 October 1988. The University of South Australia is an Equal Opportunity Employer.

MOLECULAR BIOLoGIST

The Department of Biomedical Research and the Division of Cancer Biology, University of St. Elizabeth's Hospital of Boston, Tufts University School of Medicine, is seeking a full-time staff member with expertise in molecular biology. The successful candidate must have an established research productivity with funding by NIH or show significant promise in career development. Both Ph.D. or M.D. candidates are eligible. For M.D. candidates, opportunities are available to participate in patient care and teaching. In addition to development of his own research area, applicants will be expected to serve as a departmental resource in collaborative studies and participate in a postgraduate research training program. Academic appointment is at the level of assistant or associate professor, depending on qualifications. Both the Department of Biomedical Research and the Division of Hematology/Oncology are closely integrated with the Tufts University Cancer Center. Applications are especially encouraged from scientists with expertise in biochemistry, cellular and molecular biology with primary areas of interest being blood cell membranes. Up to 1,600 square feet of laboratory and office space and a variety of laboratories and equipment are available as well as seed funds for further research development are available. Applicants should send their curriculum vitae, summary of their academic goals and representative reprints to: Jiri Palek, M.D., Chairman, Department of Biomedical Research, St. Elizabeth's Hospital of Boston, Tufts University School of Medicine, 736 Cambridge Street, Boston, MA 02135. Equal Opportunity Employer.

NMR SPECTROSCOPY OF ENZYMES

UNIVERSITY OF OXFORD

POSTDOCTORAL POSITION available for work on structure of enzyme-intermediate complexes using solution-state and solid-state NMR spectroscopy. Experience in biological NMR spectroscopy, ideally in the solid-state, would be an advantage. The successful candidate will be expected to pursue independent research in the area of solution-state and solid-state NMR spectroscopy. Experience in the use of high-field solid-state NMR spectroscopy and a fully equipped protein purification laboratory. Salary in the range of $11,000 to $13,000. Applications should be sent to: Dr. Sir William Boden, Glycoscience Unit, 117-121 Old Road, Dyson Perrins Laboratory, Oxford University, South Parks Road, Oxford OX1 3QT, United Kingdom. (Telephone: 011-844-8065565)

The University of Oxford is an Equal Opportunity Employer.

MOLGENETICIST

UNIVERSITY OF GEORGIA

The Department of Genetics at the University of Georgia is seeking two molecular geneticists for tenured-track positions available January 1989. The research areas and the responsibilities are as follows:

1. The first position is a Ph.D. in a research area in molecular biology, with specialization in prenatal diagnosis, with an emphasis on research on the solid-state movement, and a desire to have a position teaching undergraduate and graduate students. Responsibilities include: teaching graduate and undergraduate levels; participating in research activities of the department; serving on manuscript review panels; and serving on committees of the department. The closing date is 15 October 1988. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

2. The second position is a Ph.D. in a research area in molecular biology, with specialization in prenatal diagnosis, with an emphasis on research on the solid-state movement, and a desire to have a position teaching undergraduate and graduate students. Responsibilities include: teaching graduate and undergraduate levels; participating in research activities of the department; serving on manuscript review panels; and serving on committees of the department. The closing date is 15 October 1988. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

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MOLECULAR BIOLOGIST

Enzo Biochem, Inc. is seeking a Ph.D. in molecular biology with experience in nucleic acid hybridization, radiolabeling, and probe development and dose-signal amplification. Postdoctoral training preferred. Send curriculum vitae to:

Enzo Biochem, Inc. 325 Hudson Street New York, NY 10013

Attention: M.B.

NEUROPEPTIDES/GROWTH FACTORS—POSTDOCTORAL POSITION. A fully funded postdoctoral position is available to study the molecular biology of the bombesin-like peptides. Projects include cloning the bombesin receptor and characterizing the regulation of bombesin gene expression in neoplastic cell lines. Candidates should have experience in cell biology, molecular biology, or electrophysiology. Send curriculum vitae and names of references to: Dr. Elliot Spindel, Division of Genetics, Thorn-917, Brigham & Women's Hospital, 75 Francis Street, Boston, MA 02115.

NEUROSCIENTIST

Applications are invited for a position as assistant professor or junior research scientist in the Department of Physiology and the Spinal Cord Research Centre at the University of Manitoba Faculty of Medicine and the Winnipeg Health Sciences Centre. Candidates should have a Ph.D. or equivalent postdoctoral training, be eligible for a Medical Research Council Scholarship Award, and be able to establish a strong research program. Preferred areas of interest include neuropharmacology, tissue slice or neuron culture methodology, molecular biology of neurons, growth and development of the central nervous system, plasticity, regeneration, and transplantation. Experience in graduate and undergraduate teaching would be an asset. Primary appointment would be in the Department of Physiology. Send curriculum vitae and names of referees to: Dr. H. G. Friesen, Professor and Head, Department of Physiology, The University of Manitoba, Winnipeg, Manitoba, Canada R3E 0W3. Deadline for receipt of applications is 15 October 1988. Both women and men are encouraged to apply. In accordance with Canadian Immigration, priority will be given to Canadian citizens and permanent residents of Canada.

OCEANOGRAPHER/MARINE MAMMALOGIST—The School for Field Studies (SFS) is looking for an Oceanographer/Marine Mammalogist to teach assists with graduate programs in marine mammalogy and ecology in Hawaii. Duties: direct academic programs and research, recruit faculty and develop site. Requirements: Ph.D. in marine mammalogy or equivalent, ability to manage and teach and university teaching experience. Salary: competitive with benefits. This year-long position starts September 1988 with potential for permanent appointment. Please send curriculum vitae and three references to: Dean, SFS, 376 Hale Street, Beverly, MA 02158.

ORTHODONTICS—UNIVERSITY OF WASHINGTON

A full-time, tenure-track position is available in the ASSOCIATE PROFESSOR or PROFESSOR level on 1 January 1989. Responsibilities include conducting research, teaching basic science at the graduate level, and participating in the research projects with graduate students. Candidates must have received a Ph.D. in a basic science. Relevant areas of study may be craniofacial development, musculoskeletal physiology, mechanics of tooth and jaw movement, among others. Criteria for selection include proven ability to attract grant funding and a desire to develop clinical relevance from basic science research. Salary is commensurate with rank and qualifications. The University of Washington is an Equal Opportunity Employer. Females and minorities are encouraged to apply. Send curriculum vitae to: Dr. Jack J. Sokich, Institute of Dental Research, Department of Orthodontics, SM-46, School of Dentistry, University of Washington, Seattle, Washington 98195. Deadline for applications is 1 November 1988.
R & D Opportunities

Baxter Healthcare Corporation, MicroScan Division, develops and manufactures computer controlled electronic instrumentation and disposables used in the clinical laboratory. Research involves systems dealing with rapid identification and susceptibility testing.

Manager of Formulation Development

Successful candidate will be responsible for our formulation development group which concentrates on improving and updating existing products, developing component specifications including HPLC assays for antimicrobial and trouble-shooting product problems.

Background should include a Ph.D. in Biochemistry, Microbiology or related field with 3-5 years experience in a diagnostic industry or academia. Background in formulation development and development of manufacturing processes is essential.

Manager/Supervisor Development

Responsibilities include supervision of technical workers including assigning tasks, generating stability data and participating in pilot scale-up production. A BS degree with 5-7 years experience or MS degree with 3-5 years experience or Ph.D. with 1-2 years experience is required. Background in development of manufacturing processes desirable.

Research Scientist

Responsibilities include carrying out development work, planning and running experiments to support present and new products. A BS degree with 3-5 years experience; MS with 2-3 years experience or Ph.D. with 1-2 years experience in diagnostic/pharmaceutical industry is required.

Baxter Healthcare Corporation, MicroScan Division, is a leader in the healthcare industry and we offer excellent salaries and benefits to the individuals who qualify for our positions. If you feel that you have the skills we need, send your resume, stating current salary to: Vice President of Human Resources, Baxter Healthcare Corporation, MicroScan Division, 1584 Enterprise Blvd., West Sacramento, California 95691. We are an equal opportunity employer m/f/h/v.

MicroScan Division

Baxter

Glaxo Inc. is not only one of the Top 10 ethical pharmaceutical firms in America, we're also the fastest growing research-oriented company in the country. As such, we can offer exceptional career opportunities, state-of-the-art facilities, and a firm commitment to producing the most effective pharmaceuticals that experience, imagination, and advanced technology can create. Join Glaxo, and apply your knowledge and career ambitions where they'll do you the most good.

As part of our continuing growth, Glaxo is expanding its research facilities in Research Triangle Park, North Carolina under the direction of Dr. Pedro Cuatrecasas. This has created opportunities for

POSTDOCTORAL FELLOWSHIPS

These positions, for a period of one to three years, will be available for highly qualified individuals with enthusiasm for drug discovery through basic research in the biological sciences. Opportunities are available in the following areas:

- modulation of ion channels
- regulation of DNA replication
- structure/function of protein kinases
- modulation of cell — cell interactions
- regulation of fatty acid metabolism in inflammation
- hormone-receptor signal transduction
- role of free radicals in disease
- molecular and cellular biology of neurodegenerative disorders
- regulation of gene expression in mammalian cell systems
- in vivo cardiovascular pharmacology
- role of oncogenes and tumor suppressor genes in neoplastic transformation
- receptor structure elucidation
- regulation of metabolism in diabetes and obesity

At Glaxo Inc. growth opportunities and up-to-date facilities are complemented by a location (Raleigh-Durham-Chapel Hill) that has excellent resources in close proximity. Further, we reward talent and creativity with an excellent salary and benefits package.

Candidates interested in these positions please send curriculum vitae, along with the names of three references, to:

Human Resources Dept.
Job # PF-S

Glaxo Inc.

P.O. Box 13398
Research Triangle Park, N.C. 27709

(No Phone Calls, Please)

No Private Agency Referrals. Please

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Paving the way to a healthier world.
SEARCH REOPENED
DIRECTOR, BYRD POLAR RESEARCH CENTER
The Ohio State University

The Ohio State University invites applications and nominations for the position of Director of the University’s interdisciplinary Byrd Polar Research Center. The Center was formerly known as the Institute of Polar Studies. The candidate should have an outstanding research record in an area such as physical, biological, earth, atmospheric, oceanographic, or engineering sciences, as evidenced by publications, receipts of research grants, and activities in national and international scientific organizations. The candidate should also have demonstrated administrative experience, the ability to work effectively with academic and administrative personnel, and a strong interest in polar research.

The Director will provide leadership for and will coordinate the development of interdisciplinary programs in polar research, and will draw on resources of and be involved with existing programs in the Colleges of Agriculture, Biological Sciences, Mathematical and Physical Sciences, Engineering, Medicine, and Social and Behavioral Sciences. It is expected that the Director will be appointed as a faculty member in one of the associated academic departments.

The Director, who reports to the Vice President for Research and Graduate Studies, will provide active leadership in promotion, direction, and support of research activities of the Center. The principal mission of the Center, as reflected in its substantial 25-year history of activity remains polar research. Newer areas of interest are research information, including archives of polar researchers such as Richard E. Byrd, and popular education about polar and alpine research, including museum displays.

Beginning July 1, 1988, applications and nominations will be considered until the position is filled. The Ohio State University is an Affirmative Action/Equal Opportunity Employer. Applications, nominations and applications should be sent to:

Kathleen A. Maclean
Secretary to the Search Committee
for Director of the Byrd Polar Research Center
Office of Research and Graduate Studies
208 Bricker Hall
200 North Oval Mall
Columbus, OH 43210
U.S.A.

POSTDOCTORAL FELLOWSHIPS
St. Jude Children’s Research Hospital, a large multidisciplinary research institute, has openings for postdoctoral investigators in the basic biomedical sciences. Fellowships are available in molecular genetics, tumor cell biology, pharmacology, biochemistry, immunology, virology & molecular biology and other related disciplines. Specific areas of investigation include proto-oncogenes and growth factors, genetic control of cellular differentiation, biochemical basis of multiple drug resistance in childhood neoplasms, regulatory properties of viral proteins, macrophage immunobiology, phospholipid metabolism, and cellular messenger systems. Successful applicants train with internationally recognized preceptors in a fully equipped facility and are given the opportunity to develop as independent investigators. Annual salaries begin at $22,000 and are commensurate with experience.

Application forms and a more detailed description of the training program can be obtained from:
Ms. Evonna Toland, Director's Office
St. Jude Children's Research Hospital
P.O. Box 318
Memphis, TN 38101
An Equal Opportunity Employer

RESEARCH SCIENTISTS
The Diagnostic Systems R&D Division of our Medical Products Department has several research positions available in our Immunopharmaceutical R&D group in Billerica, MA, a suburb of Boston.

Radio-biologist
This position is responsible for the design and implementation of experiments to determine the radiation dose delivered by radiolabeled monoclonal antibodies to tumors and other organs. Qualifications include a PhD in radiobiology, radiation physics or pharmacology plus a minimum of 2 years of experience with radiodosimetry, M.I.R.D. and animal tumor models.

Inorganic Chemist
This position is responsible for the design, synthesis and characterization of inorganic coordination complexes and the development of chemists to attach metallic radionuclides to biologically important molecules. Qualifications include a PhD in inorganic chemistry plus synthetic experience. For consideration, please send resume with references to Leslie Greenfield, The DuPont Company, 331 Treble Cove Road, North Billerica, MA 01862. An Equal Opportunity Employer.

DUPONT

DIRECTOR
Lawrence Berkeley Laboratory
University of California, Berkeley, California

The President and The Regents of the University of California invite nominations and applications for the position of Director of the Lawrence Berkeley Laboratory of the University of California at Berkeley, California. The appointment will be effective on July 1, 1989, or at such later time as is mutually agreeable to the appointee and the University

The Laboratory was established in 1931, and is adjacent to the University of California, Berkeley campus. It is a multi-program laboratory operated by the University under contract with the Department of Energy. The Laboratory has 12 scientific and engineering divisions, which perform basic and applied science in energy-related fields as well as disciplinary research in the physical, life, and geo-sciences. Some 200 of the staff have joint appointments with the Berkeley campus, and a large component of the research is done by UCB undergraduate and graduate students and by post doctoral appointees. All of the research done at the Lawrence Berkeley Laboratory is classified.

The Director is responsible for the management of the Laboratory and reports to the President of the University. Within University policy, the Director exercises broad delegated powers in the overall administration of the Laboratory, which employs approximately 3,400 staff members, including part-time students, and has a current annual budget of $220 million.

The chief responsibility of the Director is the management of the Laboratory’s programs. This includes defining their technical scope, negotiating their funding level with federal officials in the executive branch, and ensuring that they are executed with the highest quality. In addition to this programmatic role, the Director is responsible for the institutional health of the Laboratory through stewardship of its human and physical resources.

Candidates should have demonstrated administrative experience in the conduct of the affairs of substantial organizations and should have an extensive scientific and technical record. Applications, accompanied by current resume, and nominations may be sent to:

The President
714 University Hall-LBL
University of California
Berkeley, California 94720

and should be received no later than September 5, 1988, to be given full consideration.

AN EQUAL OPPORTUNITY AFFIRMATIVE ACTION EMPLOYER
ASSISTANT PROFESSOR

Assistant Research Professor to initiate or continue independent research program in any area of molecular or cellular physiology. Active well-equipped department will provide space, start-up funds.

Reply to: Harvey R. Weiss, Ph.D., Acting Chairman, Department of Physiology and Biophysics, UMDNJ-Robert Wood Johnson Medical School, (S), 675 Hoes Lane, Piscataway, NJ 08854-5635.

The UMDNJ is an Affirmative Action/Equal Employment Opportunity Employer M/F/DV.

STRATEGIC PLANNING/NEW BUSINESS DEVELOPMENT

Diagnostic Products

Amersham Corporation, a leading international supplier of molecular biology, biomedical and medical diagnostic products to the research and medical communities, has an immediate need for an ASSISTANT MANAGER due to expansion.

As part of our Strategic Planning/New Business Development team, you will be responsible for seeking out and developing new business opportunities in the in vivo and in vitro medical diagnostic market. 25% overnight travel is necessary to identify and develop potential strategic partners throughout the U.S. and to attend professional meetings. The ideal candidate will possess an M.S. or Ph.D degree in a life science, previous experience in the research and development of diagnostics, and marketing experience in the industry. Familiarity with current diagnostic products and technologies is critical; a strong instrumentation background would be an asset.

We are offering a highly professional work environment, an excellent starting salary, and an attractive benefits package, including dental insurance, savings/profit sharing, and tuition reimbursement. For prompt consideration please submit your resume with your salary requirements in confidence to:

Employment Supervisor

AMERSHAM CORPORATION
2636 S. Clearbrook Dr.
Arlington Heights, IL 60005

Equal Opportunity Employer M/F

ImmuLogic is a growing company dedicated to the creation of novel therapeutic products which modulate the human immune system. We are employing state-of-the-art techniques and proprietary knowledge in immunology, biochemistry, and molecular biology to develop products in the vaccine, allergy, and autoimmune disease areas. We have already assembled an outstanding scientific and management team and are presently seeking an individual to act as:

DIRECTOR OF MOLECULAR BIOLOGY

The Director of Molecular Biology will lead a research group, the focus of which will be guided by the goals of ImmuLogic. In addition, he/she will be encouraged to pursue an independent program consistent with his/her research interests. The director will play a vital role in the organization, planning, and development of all of the molecular biological programs within ImmuLogic. The position will be based in our Cambridge, Massachusetts headquarters, but strong interaction with scientific teams in our Palo Alto, California research unit is also envisaged.

We are seeking an individual with an outstanding record of productive research in molecular biology. A minimum of 8-10 years of professional experience and accomplishment combined with strong interaction and management skills within an academic or industrial setting are crucial requirements for the position.

ImmuLogic provides an outstanding working environment with state-of-the-art laboratory facilities in Cambridge, Massachusetts. We have a dedicated team of innovative scientists already in place, a strong and experienced management group, and an outstanding support network of academic advisors and collaborators. An active Post-Doctoral research program has been initiated and the publication of important research findings is positively encouraged and supported.

This position has an attractive remuneration and benefits package including substantial equity participation through stock options.

Please send curriculum vitae and list of publications and/or resume to:

ImmuLogic Pharmaceutical Corporation
One Kendall Square, Building 600
Cambridge, MA 02139
Attn: Human Resources Department
UNIVERSITY OF MICHIGAN-UNIVERSITY MEDICAL CENTER, Department of Pediatrics, Endocrinology: applications are invited for a tenure-track position. Candidates should be certified or eligible for certification in pediatrics and pediatric endocrinology. The appointee will direct the large, active, and successful endocrine research program in the Pediatric Endocrinology Division. Applicants should have an active research program in the areas of metabolic regulation or cellular and molecular biology related to diabetes, obesity, or hypertension. The successful candidate will be expected to develop an independent research program that will receive substantial extramural funding. U.S. citizenship or permanent residency is required. Please provide a curriculum vitae and the names of three references to: Dr. Richard W. Wahl, M.D., Division of Nuclear Medicine, University of Michigan Medical Center, Ann Arbor, MI 48109-0026. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL FELLOWSHIP
POLICY ANALYSIS OF ENVIRONMENTAL STANDARDS

University of Michigan: Unexpected immediate opportunity for a postdoctoral fellow with expertise in environmental policy analysis. U.S. citizenship or permanent residency is required. Please provide a curriculum vitae and the names of three references to: Dr. Richard W. Wahl, M.D., Division of Nuclear Medicine, University of Michigan Medical Center, Ann Arbor, MI 48109-0026. The University of Michigan is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION
Requires Ph.D. with a background in cellular or molecular biology to participate in a project to study the gene regulation in monocytic cells by retinoic acid. Send curriculum vitae and three references to: Dr. Fred H. Shultz, Department of Neurosciences, M-024, University of California, San Diego, La Jolla, CA 92039.

POSTDOCTORAL RESEARCH ASSOCIATE
POSITION AVAILABLE: PhD in molecular biology with experience in recombinant DNA technology desired. Salary negotiable. Send curriculum vitae and three references to: Kapil Mehta, Ph.D., Immunobiology and Drug Discovery, Box 414, M.D. Anderson Cancer Center, Houston, TX 77030. Telephone: 713-792-8140.

POSTDOCTORAL RESEARCH ASSOCIATE
POSITION AVAILABLE: Ph.D. in molecular biology with experience in recombinant DNA technology desired. Salary negotiable. Send resume with names of three references to: Dr. Fred H. Shultz, Department of Neurosciences, M-024, University of California, San Diego, La Jolla, CA 92039.

POSTDOCTORAL RESEARCH ASSOCIATE
POSITION AVAILABLE: PhD in molecular biology with experience in recombinant DNA technology desired. Salary negotiable. Send resume with names of three references to: Dr. Fred H. Shultz, Department of Neurosciences, M-024, University of California, San Diego, La Jolla, CA 92039.
Research Immunologist

Our Spirit of Teamwork Fosters a Winning Attitude

American Cyanamid Company's Agricultural Research Division has a long-standing and highly successful commitment to the discovery and development of products to improve worldwide crop and livestock production. We are growing rapidly and currently have an exciting opportunity for a research immunologist in the Immunology and Parasitology Group, Animal Industry Discovery at our laboratory and experimental farm complex ideally located near Princeton, New Jersey.

This individual will join an enthusiastic multi-disciplinary team pursuing novel immunological methods of preventing major disease syndromes and parasite infestations. The successful candidate will have the opportunity for both basic and applied research. Opportunity exists to contribute both to our ongoing efforts to elucidate pathophysiology of host pathogen interactions as well as identify and evaluate immunomodulating agents, and to be the initiator of new related research efforts using state-of-the-art techniques and equipment including flowcytometry, monoclonal antibodies, protein purification, and molecular biology. A PhD in immunology or a DVM with graduate training in immunology is preferred. Individuals with appropriate experience and the desire to broaden their career and be recognized for a diversity of scientific achievement are encouraged to apply.

American Cyanamid offers a competitive compensation and benefits package. For prompt and confidential consideration, forward your resume to the Employment Office.

American Cyanamid Company
Agricultural Research Division
P.O. Box 400, Princeton, NJ 08540
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Manager, Biochemistry Research

Hershey Foods Corporation's Research and Development team has an immediate need for an experienced researcher and manager to fill the newly created position of Manager, Biochemistry Research.

This position reports to the Director of Food Science and Nutrition and will be responsible primarily for managing key research programs in the fields of enzymology, biochemistry and natural products chemistry. Areas of research will include cocoa, milk and other natural food ingredients relating to the Hershey Foods product lines. The Manager, Biochemistry Research will also be responsible for managing the activities of a highly trained and talented research staff.

Candidates must have at minimum a Ph.D. in Biochemistry plus 9-10 years of professional experience which must include research activity in food biochemistry, enzymology and natural products chemistry. Additional requirements include supervisory experience and excellent communication and interpersonal skills.

Hershey Foods offers a modern research facility and challenging work as well as a competitive compensation and benefits package, including relocation assistance. To apply, please forward your resume and salary history to Human Resources Administration, Hershey Foods Corporation, 14 E. CHOCOLATE AVE., HERSHEY, PA. 17033

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Women and Minorities are encouraged to apply.

committed to the future

5 AUGUST 1988
RESEARCH ASSISTANT

Full time day position available in our Hematology/Oncology Laboratory. M.S. (or B.S. with 5+ years of experience) in immunology with a background in molecular biology, cytogenetics, or molecular genetics. Two years+ recent research experience required. Duties to include sample, reagent and culture media preparation, DNA and RNA extraction, and basic laboratory analysis and analysis. Send credentials to: Dr. Charles Poletti, Massachusetts General Hospital, Boston, MA 02114.

The Department of Pharmacology and Toxicology of Virginia Commonwealth University announces the opening of a non-tenure eligible faculty position at the rank of RESEARCH ASSISTANT PROFESSOR. Applicants should have a doctoral degree and at least 3 years of postdoctoral teaching experience in the area of immunopharmacology in a medical school environment. Candidates should have demonstrated expertise in the field of immunology as well as cell signal transduction mechanisms and pharmacologic manipulations of those systems for the purpose of modulating lymphocyte growth and function. The applicant should also be familiar with immunotherapeutic procedures and lymphocyte function in cancer as well as AIDS. Demonstration of skills utilizing statistical procedures for modeling multi-agent interactions is also advantageous. Candidates should have demonstrated skills at instructing graduate students and physicians in research techniques involving pharmacologic manipulation of cell signal transduction systems. Emphasis will be placed on candidates with novel ideas as to the investigation of basic mechanisms regulating cell growth and function as well as for developing immunotherapeutic protocols. Job description and application qualifications will be sent upon request. Please send resume to: Dr. Richard A. Carchman, Department of Pharmacology and Toxicology, Box 613, MCV Station, Richmond, VA 23298–0613 by 13 August 1988.

Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

RESEARCH ASSOCIATE IN NEUROPHYSIOLOGY

Experience in studying nociceptive mechanisms using intracellular and extracellular recording techniques in vertebrates. Potential for independent investigator on Harvard Faculty. Integral role in Pain Program Project. Position available 1 September 1988. Salary commensurate with experience. Send resumes to: Dr. Paola Poltti, Massachusetts General Hospital, Boston, MA 02114.

INO/MIT RESEARCH FELLOW—The Institute for Naval Oceanography (INO) and the Massachusetts Institute of Technology (MIT) are commencing a cooperative effort in ocean data assimilation, with an emphasis in mesoscale ocean prediction. Small team of researchers in each institution involved with evaluating, enhancing and utilizing primitive equation model developed recently by Professor Dale Haidvogel, Johns Hopkins University. We seek a recent Ph.D. scientist to work with these teams. Collaborations include those with scientists from Woods Hole Oceanographic Institution (WHOI) as well as those with Professor Haidvogel. INO/MIT Research Fellow will have career-path with INO; either at INO or in the MIT Ocean Engineering Department. Candidate must have experience with either large or small ocean models, and provide a letter of recommendation by 1 October 1988. Send complete resume, names and references to: Mr. Newton J. Spitzfaden, Institute for Naval Oceanography, Stennis Space Center, MS 39529–5005; inquiries can be made by phone: 601–283–2451; or Dr. Christopher N. K. Mooers, Institute for Naval Oceanography, Stennis Space Center, MS 39529–5005, Telephone: 601–688–3525. An Equal Opportunity Employer M/F/H.

NATIONAL CENTER FOR SUPERCOMPUTING APPLICATIONS

University of Illinois at Urbana-Champaign

SENIOR RESEARCH SCIENTIST

The position will pursue research in computational biophysics on our advanced scientific supercomputing facility which includes a CRAY X/MP-48, a CRAY-2, two ALLIANT FX/8's, a Scientific Visualization Facility, and a host of scientific workstations. This position is a part of NCSA's growing Computational Science Program, consisting of twenty-two staff research scientists, faculty researchers, computer scientists, post doctoral fellows and graduate research associates, which will be housed in the Beckman Institute (Fall 1988) of the University of Illinois, Urbana-Champaign. The successful candidate will be expected to interact with NCSA's industrial Partners active in biomedical science and computational biology: Eastman Kodak Co., Amoco Corp., and Eli Lilly & Co.

A Ph.D. is required. Seven years research experience at the post-doctoral level in supercomputer simulations of molecular dynamics, preferably of large molecules. Familiarity with molecular modeling and quantum chemistry applications software is highly desirable, as is an interest in protein analysis and drug design. Starting date will be as soon as possible. Salary commensurate with experience. The position can either be filled as a 12-month 100% research position, or in conjunction with a part-time faculty appointment, to be arranged with an appropriate departmental unit.

To insure full consideration, please send letter of application, curriculum vita, and three letters of reference by August 24, 1988 to: Dr. Michael L. Norman National Center for Supercomputing Applications 152 Computing Applications Building 605 East Springfield Avenue Champaign, Illinois 61820 217/244-2006 The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSISTANT PROFESSOR: MOLECULAR BIOLOGY

The University of Southern California, School of Dentistry is accepting applications for a full-time position involving research and teaching at the graduate/specialist level. Minimum Ph.D. and post-doctoral experience preferred. Ability to maintain active research, attract outside funding, and excellence in teaching. Research experiences in regulation of gene expression and growth factor expression in dental and other epithelial-mesenchymal model systems preferred. Submit applications prior to 28 October 1988 to: Howard M. Landesman, D.D.S., M.Ed. Executive Associate Dean University of Southern California School of Dentistry, Room 218 University Park Los Angeles, CA 90089–0641

RESEARCH PH.D.

Immediate opening for Ph.D. with interest in basic and clinical research work in cardiac physiology, electrophysiology/biochemistry. The successful candidate should have interest and experience in cardiovascular animal research. Experience in handling various biochemical techniques like HPLC, RIA, spectrophotometry desirable. This challenging position offers opportunity for growth in clinical as well as basic cardiovascular research. Winthrop-University Hospital is a 533-bed teaching affiliate of SUNY, Stony Brook School of Medicine, offering competitive salary, comprehensive benefits and a professional working environment. The institution has state-of-the-art animal research, electrophysiology, invasive cardiac and surgical facilities. Send resume or contact: Steven Zeldis, M.D., or Kul D. Chadda, M.D. Winthrop-University Hospital 259 First Street Mineola, Long Island, NY 11501 or call: The Human Resources Department, Telephone: 516-663-2351. Equal Opportunity Employer M/F/H.

THE SCIENCE RECRUITMENT "FOUR DAY CLOSE"

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MOLECULAR BIOLOGISTS

Regeneron, a newly formed molecular neurobiology corporation, has openings for highly qualified, innovative scientists to serve as group leaders, staff scientists, and postdoctoral fellows in the Divisions of Molecular and Cell Biology and of Neurobiology. Regeneron was organized by a team of world renowned scientists and physicians with the goal of applying recent advances in the understanding of control of neuronal growth and regeneration to the development of novel therapeutic products for degenerative and traumatic neurological diseases.

Positions in Molecular and Cell Biology require skills in any of the following areas:

- Molecular Cloning
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- Antibody Development

Experience with neuronal systems is advantageous but in no way essential for these positions.

Positions in Neurobiology require expertise in:

- Neuronal Cell Culture
- Neurochemistry
- Animal Models

Regeneron's modern, well-equipped laboratory facility is located on a 200-acre wooded campus in Westchester County, about 20 miles north of New York City, near a number of major universities and medical centers. Close interactions with the Company's Scientific Advisors and other colleagues at academic institutions foster an exceptionally productive intellectual environment.

Regeneron offers excellent compensation packages, including generous stock options. Suburban Westchester features attractive and affordable housing, outstanding public schools and recreational facilities, and ready access to the cultural and business centers of New York.

Please send your resume, in confidence, to: Ms. Carol Deaken, Regeneron, Suite 12 M, 1320 York Avenue, New York, NY 10021.

Regeneron is an equal opportunity employer.

RESEARCH ASSISTANTS

Crop Genetics International, a growing agricultural biotechnology company in suburban Baltimore/Washington, has openings for research assistants in the molecular biology group. The scientists will join a multi-disciplinary team developing novel microbial technologies for in planta production of agricultural biochemicals.

RESEARCH ASSISTANTS requirements are a BS or MS in the biological or biochemical sciences. Individuals with research experience in the following areas are encouraged to apply:

Molecular Biology—Vector/plasmid constructions, analysis of gene expression in prokaryotic systems, gene regulation, heterologous gene expression;

Protein Biochemistry—Protein chromatography, HPLC and/or FPLC purification of proteins/peptides, 2-D gel electrophoresis, western blot analysis.

To apply forward a curriculum vitae in confidence and the names of three professional references to:

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**POSITIONS OPEN**

**RESEARCH ASSOCIATE**

The position involves multidisciplinary approaches to study the cellular and molecular mechanisms of the host immune response to HIV. The successful candidate will develop new approaches to the characterization of HIV in AIDS. The applicant should have a Ph.D. in the fields of immunology, molecular biology and virology.

**RESEARCH ASSOCIATE**

Monell Chemical Senses Center has a full-time position for a research associate to design and perform experiments to determine the role of specific taste receptor molecules on signal transduction in taste/tactile organs with emphasis on role of lipids; determine properties of the enzyme that generates these signal transduction molecules; determine the effects of taste/oral stimuli, lipids, guanine nucleotides and calcium; and determine incorporation of radioactive precursors into lipids of taste/tactile organs; communicate results in oral and written forms. Should have Ph.D. in lipid biochemistry and knowledge and experience in chemical senses (taste and olfaction) with 2 years of experience. Salary: $29,000 to $34,000. Send resume to: Joseph G. Bränd, Ph.D., Monell Chemical Senses Center, 3500 Market Street, Philadelphia, PA 19104.

The Department of Biochemistry and Biophysics in the School of Medicine of the University of Pennsylvania is searching for a SCIENTIST in the area of the molecular genetics of extracellular matrix proteins with particular emphasis on pulmonary fibrosis. The position to be filled is on the tenure-track and at the associate professor level. The applicant should have a proven track record in research and teaching in the area. Send curriculum vitae and list of references to: James M. Reuben, Ph.D., Division of Laboratory Medicine, 73 University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030.

Louisiana State University (LSU) is seeking a RESEARCH ASSOCIATE IV for the NMR Facility in the College of Basic Sciences. The position requires a B.S. degree and experience in maintenance of high-field FT-NMR spectrometers or a Ph.D. in chemistry or biochemistry. Duties include scheduling, supervising, maintaining and operating the NMR instruments in 2D and 3D techniques and knowledge of RF electronics is required.

**SCOTLAND**

**UNIVERSITY OF EDINBURGH**

**MRC BRAIN METABOLISM UNIT—DEPARTMENT OF PHARMACOLOGY**

**RESEARCH FELLOW**

Applications are invited for the above post to work with intracellular recording techniques on embryonic cells transplanted into adult brain. The post is funded for 3 years by the Parkinson's Disease Society and salary will be on the RAIA scale from £9,665 to £12,760 (with placement according to qualifications and experience). The grant is held jointly by Dr. G. W. Arnbomst of Edinburgh and Dr. S. B. Dunnett of Cambridge from either of whom further details may be obtained. Letters of application including curriculum vitae and names and addresses of two referees should be sent to: Dr. G. W. Arnbomst, MRC Brain Metabolism Unit, University Department of Pharmacology, 1 George Square, Edinburgh EH9 9RH, prior to 20 October 1988, with a starting date as soon as possible thereafter. Please quote reference no. 5569.

**SCOTLAND**

**UNITED STATES**

**SOUTH CAROLINA**

**STAFF SKEP FELLOW POSITION IN HEPATITIS VIRUS RESEARCH**

DHHS, PHS, Food and Drug Administration, Center for Biologics Evaluation and Research, Division of Viral Diseases, has a senior staff fellowship position available for an outstanding candidate with a Medical or Doctor of Philosophy/Science Degree. The purpose of the position is to conduct and report researches and review of hepatitis viruses. This is a tenure-track position with potential for conversion in 2 to 4 years.

To qualify as a senior staff fellow candidate must have a minimum of 3 years of graduate work experience. A strong background in hepatitis virus research is required.

Salary range for candidates with a Doctor of Philosophy/Science Degree is $43,452. Salary range for candidates with a Medical Degree is from $28,000 to $50,744. Salary, research support and level of experience will be commensurate with education and experience. Applicants must be U.S. citizens or resident aliens eligible for citizenship within 4 years.

Interested candidates should send current curriculum vitae and bibliography to: FDA/Centre for Biologics Evaluation and Research, Building 29, Room 114N, 8800 Rockville Pike, Bethesda, MD 20892. For further information, call Mr. Boyer or Ms. Hutchinson on 301-496-5394. FDA is an Equal Opportunity Employer.

**STAFF POSITION**

**SENIOR CARBOHYDRATE CHEMIST**

Performs research regarding changes in food ingredients, products, in complex carbohydrates during food processing in order to improve product quality and processing system itself. Works involves new product development and formulation research with respect to existing products. Requirements: Ph.D. in food science with major in grain science; must have background and experience in carbohydrate and polysaccharide research for food industry, 40 hours per week, $36,500 per year. Respond to: Box 127, SCIENCE.

**SENIOR SCIENTIST**

Organogenesis, a biotechnology company dedicated to the production of living tissue and organ equivalents for clinical and test uses seeks a senior scientist to join a team investigating the development of tissue equivalents for orthopedic applications.

The successful candidate will have a Ph.D. in biochemistry, and 3 to 5 years postdoctoral experience specifically in the field of hormonal control of osteogenesis.

**SENSORY NEUROPHYSIOLOGIST**

Tenure-track possibility for position available at assistant professor level. Serious commitment to collaborative work required. Duties: research to characterize electrophysiologically the properties of central axons which have regenerated along nerve implants. Experience requisite to applicants experienced in spinal cord neurophysiology and tract-tracing and histological techniques. Please send curriculum vitae with three letters of recommendation to: Dr. Julia K. Teresi, Assistant Professor, Eastern Virginia Medical School, P.O. Box 1980, Norfolk, VA 23501.

**SPACE LIFE SCIENCES PROJECT AND CURRICULUM ASSISTANTS**

The NASA Space Life Sciences Training Program at the Kennedy Space Center is recruiting applications for temporary staff positions (January through August 1989) supporting development and implementation of life science laboratory projects to be included in an intensive summer educational program for undergraduates. These staff positions offer on-the-job exposure to NASA's life science operations and research under the supervision of resident and visiting scientists. Graduate student-level persons with background in human physiology (vestibular, cardiovascular, or muscle), plant physiology, animal nutrition, microbiology, or combinations of the above are especially encouraged to apply. For more information contact: Dr. Ronald G. Spalding at 328-2521. Applicants should send a letter of interest, curriculum vitae, and three letters of reference by 1 November 1988 to:

John R. Puleo
The Biomedical Simulation
Mail Code BID-1
Kennedy Space Center, FL 32899
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**STAFF MEMBER, ASSISTANT PROFESSOR—**

The Helene W. Tootin Institute is recruiting two positions in the area of tumor biology, cell, and/or molecular biology. These individuals will have a joint appointment, assistant professor, in the Basic Science Program at the Albany Medical Center. Applicants will be expected to have established a peer recognition. Send applications and three references to: The Helene W. Tootin Institute for Medical Research, 110 Hospital Drive, Bennington, VT 05201.

**STAFF SCIENTIST**

Ph.D. in biological science with experience in cloning and expression in heterologous microbial and mammalian systems; and experience in exciting new technology development. Should have broad interests in genetic engineering applications. Excellent communication skills and problem solving capabilities are essential. This position offers ample opportunity for growth, travel, and interaction with other biotechnology laboratories.

GROUP LEADER

Isotope Geochemistry

Los Alamos National Laboratory’s Isotope and Nuclear Chemistry Division is seeking a well qualified scientist to lead its Isotope Geochemistry Group. The Isotope Geochemistry Group is a multidisciplinary chemistry/geochemistry group with a wide range of research efforts including isotope geochemistry, element migration and fixation in the earth’s crust, atmospheric chemistry and transport processes, chemistry of volcanic emissions, radiochemical diagnostics of nuclear weapons tests, “clean” analytical chemistry, and mass spectrometry. Successful applicant will provide scientific leadership, coordinate a research staff of approximately 40 scientists and support personnel, and play a lead role in working with staff and sponsoring organizations to identify and promote future research areas consistent with the Group’s mission.

Successful applicant must demonstrate excellence in chemical or geochemical research and ability to lead a multidisciplinary research group. Experience with technical management of research efforts, initiating new research programs and interacting with various levels of management is required. Applicant must have demonstrated abilities in both oral and written communication. PhD in Chemistry, Geochemistry, Atmospheric Chemistry or equivalent combination of education and relevant work experience is required.

Send detailed resume to: Richard O. Garcia (MS P280), Personnel Services Division 80407-BD, Los Alamos National Laboratory, Los Alamos, NM 87545.

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DIRECTOR OF APPLIED CELLULAR BIOLOGY

Central to Baxter Healthcare Corporation’s aggressive R&D efforts is our Applied Cellular Biology Center. Working with numerous divisions throughout the corporation, we make strong advancements in strategic research and development projects. We now seek an accomplished scientist to direct our efforts in leading edge technology and manage extensive coordination of our collaborative efforts.

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Baxter
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TECHNICAL MARKETING MANAGER

Promega Corporation, headquartered in Madison, Wisconsin and a leading manufacturer of molecular biological products for research and industrial scientists, is seeking a talented individual for the position of Technical Marketing Manager.

Responsibilities will include technical writing and product applications support. The position will also involve the presentation and delivery of technical data, sales training, and the evaluation of new product ideas and markets. Travel is required. The right candidate will be a self-motivator, have strong people skills, a solid understanding of technical writing, an all around writing ability, and a challenging, high-growth environment in which to apply your professional skills. All information will be kept in strict confidence. To apply, forward a resume and technical writing samples to:

Promega Corporation
Personnel Department
2800 South Research Road
Madison, WI 53711-5305

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DEPARTMENT OF PHARMACOLOGY
THE HEBREW UNIVERSITY—HADASSAH FACULTY OF MEDICINE

Two TENURE-TRACK POSITIONS available in cardiovascular pharmacology and general pharmacology. Applications, including curriculum vitae and names of two or more referees, should be sent until 30 September 1988 to: Dr. S. Silberfarb, Chairman, Department of Pharmacology and Experimental Therapeutics, School of Pharmacy, P.O.B. 12065, Jerusalem, Israel.

TOXICOLOGIST

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Deadline for applications is 30 November 1988. Further information is available on request from: Academic Secretary's Office, Weizmann Institute, Rehovot 76100, Israel (Bitnet: RSMARJOR at Weizmann, Telex: 381300).

RESEARCH AWARDS

Benign Essential Blepharospasm Research Foundation, Inc. (BERBF, Inc.) announces two $30,000 each awards for basic/clinical research projects and possible fellowship to determine cause/treatment/cure. Closing date for applications is 15 April 1989. For information write: BERBF, Inc., P.O. Box 12468, Beaumont, TX 77726-2468.

REQUEST FOR PROPOSALS

PRE-PROPOSALS—Deadline 1 September 1988. International Foundation for Ethical Research (IFER) has grants available for research into alternatives to the use of live animals in research, testing, and teaching. Projects must be submitted for the three R's: Refinement, Reduction, and Replacement plus a fourth R: Responsibility. For information and format write: IFER, 53 West Jackson, Suite 1542, Chicago, IL 60604 or call: 312-427-0025. Fellowships are also available.

TRAINING PROGRAM

POSTDOCTORAL FELLOWSHIP
MOLECULAR CARRIERS DIAGONOSIS

The Institute for Molecular Genetics, Baylor College of Medicine, is seeking applicants for a new program to provide training in stage of the art molecular genetic techniques for clinical diagnosis. The 2-year fellowships begin early as October 1988. The candidate must have an M.D. and/or Ph.D. and must be a U.S. citizen or permanent resident. Please send curriculum vitae, one-page narrative of research and career goals, three letters of reference, and graduate or medical school transcripts. For further information contact: Edward R. B. McCabe, M.D., Ph.D., Director, Baylor Laboratory Training Program, Baylor College of Medicine, One Baylor Plaza, T-526, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity Employer.

FELLOWSHIPS

University of Michigan: POSTDOCTORAL FELLOWSHIP available for recent Ph.D. or M.D., Ph.D. in immunology or related field with expertise in immunoglobulin genetics and protein expression. Specific project involves cloning, modifying, and expressing DNA for a murine monoclonal antibody with high-level reactivity with many mammalian species, for eventual target chemotherapy. Multidisciplinary laboratory with support available at various levels for the proposed work. For M.D. applicants, program may be tailored to allow for eventual board certification in nuclear medicine. Opportunity greatest for the venturesome. Please send curriculum vitae and names of two references to: Richard A. Wahl, M.D., Division of Nuclear Medicine, University of Michigan Medical Center, Ann Arbor, MI 48109-0028. Applicants must be U.S. citizen or permanent resident. The University of Michigan is a nondiscriminatory, Affirmative Action Employer.

FELLOWSHIPS

JOINT INSTITUTE FOR LABORATORY ASTROPHYSICS (JILA)

JILA (operated jointly by the U.S. National Bureau of Standards and the University of Colorado) is devoted to research study and teaching in atomic and molecular physics, chemical physics, laser physics, astrophysics, precision measurements, geophysical measurement, and related areas. Applications are invited for two programs:

1. Research Associateships for advanced research by recent Ph.D.'s. Applications are accepted and considered anytime throughout the year.

2. Visiting Fellowships for advanced research by senior scientists. Deadline for completed applications is 1 November 1988. (Please note: the deadline date is changed from that of previous years)

Further information can be obtained from: The Secretary, Visiting Scientists Program, JILA, Box 440, University of Colorado, Boulder, CO 80309-9440.

The University of Colorado at Boulder has a strong institutional commitment to the principle of diversity. In that spirit, we are particularly interested in receiving applications from a broad spectrum of people, including women, members of ethnic minorities and disabled individuals.

FELLOWSHIPS IN EYE-IMMUNOLOGY, VISU-IMMUNOLOGY Center, University of Connecticut Health Center, Farmington, Connecticut. Research in ocular aspects of inflammation and repair with emphasis on the molecular biology and/or immunology of cell mediated immunity, plasminogen activator regulation and transplantation. Ph.D., M.D. or equivalent: experience in cell or molecular aspects of inflammation, immunology or cell biology preferred. Available January 1989. Applicants must be eligible for NIH Training Grant salary support. Send curriculum vitae and research information to: Dr. Donald L. Keutzer, Vision-Immunology Center, University of Connecticut Health Center, Farmington, CT 06030. An Affirmative Action/Equal Opportunity Employer M/F/H.

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