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Albert H. Teich, Stephen D. Nelson, and Celia McEnaney, Editors

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ALBERT H. TEICH, STEPHEN D. NELSON, AND CELIA MCENANEY, EDITORS

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Virginia Commonwealth University’s Department of Pharmacology and Toxicology announces a tenure-track ASSISTANT/ASSOCIATE PROFESSOR position (in the area of molecular pharmacology), with a Ph.D. or equivalent in pharmacology, at least three years of relevant postdoctoral experience, and an outstanding record of research accomplishments in the area of signal transduction mechanisms. Applicants with an active research interest in the biology of growth factors, oncogenes and protooncogenes are encouraged to apply. The candidate must develop an independent research program and contribute to the department’s graduate and professional school teaching. Exceptionally qualified applicants with a proven track record may be considered at the Associate Professor level. Submit a curriculum vitae, research proposal and names and telephone numbers of three references, by December 1, 1995, to: Dr. John Weidemann, Box 980613, Richmond, VA 23298. Position description available upon request. Virginia Commonwealth University is an Equal Opportunity/Affirmative Action Employer and encourages women, minorities and persons with disabilities to apply.

MICROBIOLOGIST

PENDING approval and funding, the Department of Biology at the University of San Francisco invites applications for a tenure-track position in Microbiology at the ASSISTANT PROFESSOR level anticipated to begin in the fall of 1995. Teaching responsibilities may include, inter alia, general microbiology (for majors or nursing students), advanced courses in microbiology with an emphasis in environmental and biotechnology courses, molecular physiology or related fields, participation in the General Biology course for majors, and participation in the non-biology curriculum. An expectation of equivalent non-majors. The candidate will be expected to guide Master's-level graduate students and to develop an independent and ongoing research program. Qualifications: Applicants should have evidence of scholarship, an earned doctorate by fall 1995 and an understanding of and commitment to support the mission of the University. Applicants should submit a letter of application, curriculum vitae, transcripts, brief description of research plans, evidence of teaching ability, and three letters of recommendation to: Microbiology Search Committee, c/o Carol J. Chihara, Professor and Chair, Department of Biology, University of San Francisco, 2130 Fulton Street, San Francisco, CA 94117-0380. Applications must be received by January 2, 1995, to ensure full consideration. We particularly encourage minority and women applicants for all positions. The University of San Francisco is an Equal Opportunity/Affirmative Action Employer, and provides reasonable accommodation to individuals with disabilities upon request. The University is a private Catholic and Jesuit institution, and particularly welcomes candidates who work in such environments.

STAFF ASSOCIATE

Positions available immediately for researchers with extensive experience in molecular biology to study the molecular mechanisms of radiation carcinogenesis and radiation-induced changes in cell cycle progression. The candidate should have a Master's degree in a related biological discipline with at least four to five years of experience. Send curriculum vitae and names of three references to: Dr. Eric J. Hall, Center for Radiological Research, Columbia University, 630 W. 168th Street, New York, NY 10032. An Equal Opportunity/Affirmative Action Employer.

PLANT MOLECULAR GENETICS

The Department of Plant Biology, Louisiana State University, invites applications for a tenure-track, ASSISTANT PROFESSOR position in molecular genetics, anticipated for August 1995. All applicants with research interests in plant molecular genetics will be considered although special consideration will be given to those with interests in mechanisms of gene regulation in developmental systems or signal transduction. Ph.D. or equivalent degree, possession of training in molecular genetics, evident of creative research and a commitment to excellence in teaching are required. Responsibilities include development of an active research program, direction of graduate and undergraduate programs, and undergraduate and graduate courses. Review of applications will begin in November 1994 and continue until the position is filled.

Send curriculum vitae, selected reprints, a brief statement of research goals and have three letters of reference mailed to: Genetics Search Committee, Department of Plant Biology, Louisiana State University, Baton Rouge, P.O. Box 759, Piscataway, NJ 08855-0759.

THE RICHARD STOCKTON COLLEGE OF NEW JERSEY

MARINE SCIENCE, ASSISTANT PROFESSOR OR INSTRUCTOR

Full-time, tenure-track position in coastal, physical and/or chemical oceanography beginning fall semester, September 1, 1995. Remote sensing/GIS a plus. Ph.D. preferred; will consider A.B.D. A strong commitment to undergraduate teaching and research essential. Salary $30,529.42-$38,799.96. Salary may be higher depending on qualifications, experience and increases in the appropriately established compensation plan. Screening begins November 1, 1994. Applications, resume, and three letters of reference and documentation of degree status to: Barbara J. Byrne, Dean of Natural Sciences and Mathematics, The Richard Stockton College of New Jersey, 3017 Grand Road, Pomona, NJ 08240. Stockton is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply. R01184

The Department of Chemistry at the University of Virginia is seeking an outstanding individual for a position in ORGANIC CHEMISTRY. This appointment is expected to be made at the (tenure-track) ASSISTANT PROFESSOR level. All areas of organic chemistry will be considered. Candidates with a commitment to excellence in research and teaching are encouraged to send curriculum vitae containing a list of publications, a concise outline of research plans, and a statement of their teaching philosophy. Three letters of reference are requested. Send application materials to: Chair, Organic Search Committee, Department of Chemistry, University of Virginia, McCormick Road, Charlottesville, VA 22901. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

ASSISTANT PROFESSORSHIP

DEVELOPMENTAL BIOLOGIST

The Waksman Institute at Rutgers University is inviting applications for a TENURE-TRACK POSITION. The position is a joint appointment in the Department of Molecular Biology and Biochemistry and requires teaching at the graduate and undergraduate level. Applicants should submit a curriculum vitae, list of publications, three letters of reference, and a summary of research plans to: Dr. Ruth Steward, Search Committee Chairperson, Division of Biology, University of Delaware, Newark, DE 19716. Rutgers University is an Equal Opportunity/Affirmative Action Employer.
POSITIONS OPEN

VASCULAR PLANT SYSTEMATIST

The Department of Biology at Virginia Commonwealth University invites applications for a tenure-track ASSISTANT PROFESSOR position. The successful candidate should possess the ability to develop an externally funded research program in vascular plant systematics that incorporates molecular techniques and complements existing programs in plant ecology or experimental plant physiology. Teaching responsibilities may include introductory plant biology, taxonomy of vascular plants and, periodically, an advanced course in plant systematics, and must hold a Ph.D. in Botany or a closely related discipline; postdoctoral experience is preferred. Virginia Commonwealth University offers a diverse, vibrant, and growing enrollment of 22,000 students. The Department of Biology has 26 faculty members and offers a Master of Science degree. Submit curriculum vitae, selected reprints, a statement of research and teaching interests, transcripts, and three letters of recommendation by December 5, 1994, to: Dr. Donald R. Young, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2012. Virginia Commonwealth University is an Equal Employment Opportunity/Affirmative Action Employer. Women, minorities and persons with disabilities are encouraged to apply.

DEPARTMENT OF CHEMISTRY and BIOCHEMISTRY

University of Maryland at College Park invites applications for tenure-track or tenured positions in BIOCHEMISTRY. Candidates at all levels will be considered, and applications at the ASSOCIATE or FULL PROFESSOR level are especially encouraged. Research areas of particular interest include, but are not limited to: protein folding and design, structure-function relations pertaining to signal transduction, gene expression, immune systems, and cell-cell communication, and protein secretion. Candidates will also have the opportunity to participate in the campus-wide Program in Molecular and Cellular Biology. Submit a resume, a short description of research plans, and arrange for three letters of reference to be sent to: Prof. Douglas A. Julin, Biochemistry Search Committee, Department of Chemistry and Biochemistry, University of Maryland, College Park, MD 20742-2021. Evaluations begin on November 1, 1994, but new applications will be considered until the positions are filled. The University of Maryland at College Park encourages applications from women and members of minority groups and is an Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST

STATE UNIVERSITY COLLEGE AT BUFFALO

Applications are invited for a tenure-track ASSISTANT/ASSOCIATE PROFESSOR position in the area of PLANT SYSTEMATICS. Candidates should have a Ph.D. and experience in developing and teaching undergraduate and graduate courses. The hoped-for hire is open (but for preference by September 1, 1995), and applications should be sent by April 15, 1995, to: Dr. Paul F. Anderson, Department of Biology, State University College at Buffalo, One de Graw Boulevard, Buffalo, New York 14222. Equal opportunity/affirmative action employer.

Department of Biology, Valdosta State University, invites applications for tenured or tenure-track, nine-month positions (ASSISTANT or ASSOCIATE): (1) POPULATION GENETICIST (preference plants); (2) MAZINE BIOLOGIST (preference invertibrates); (3) PHYSIOLOGIST OR MYCOLOGIST. Primary teaching responsibilities for positions 1 and 3 include survey and upper-level courses in the candidate's specialty; for position 2, experience in plant and animal physiology and specialty. Ph.D. in appropriate biology discipline and commitment to undergraduate teaching required; experience in research required; participation in student advising, service, and research expected. Letter of application, current curriculum vitae, official transcripts, and three letters of reference must be submitted by December 15, 1994, to: Dr. Robert M. Pierce, Department of Biology, Valdosta State University, Valdosta, GA 31698. Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

ANATOMY AND CELL BIOLOGY

UNIVERSITY OF MICHIGAN

The Department of Anatomy and Cell Biology invites applications for a tenure-track ASSISTANT PROFESSOR position in the area of biomedical imaging. Candidates should have a strong background in digital microscopy and its application to problems in cell or tissue biology, and demonstrate expertise in high performance computing; in the storage, retrieval and transmission of digital images; and the use of modern image analysis techniques. Applications from individuals with expertise in drug delivery systems with emphasis on cellular and molecular approaches. Strongly encouraged in all areas related to pharmacometrics will be considered. Rank and salary will be commensurate with experience. The successful candidate will be expected to develop a vigorous, independent, extramurally funded research program, interact with other research groups, and engage in teaching commitment to professional and graduate education. This position affords excellent opportunities for collaborative research with institutions within the Texas Medical Center. Candidates should submit a letter of application, a curriculum vitae and a summary of research objectives to: Dou- las C. Demarest, D.D.S., Chair, Search Committee, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Hous- ton, Houston, TX 77204-5515. Review of applications will begin October 28, 1994, and continue until the positions are filled. The University of Houston is an Equal Opportunity/Affirmative Action Employer; minorities, women, veterans and persons with disabilities are encouraged to apply.

INORGIC CHEMISTRY FACULTY POSITION—University of Virginia. The Department of Chemistry invites applications for a tenure-track position at the rank of ASSOCIATE PROFESSOR. Required: Ph.D. in inorganic chemistry including biochemistry, to start in the fall semester 1995. Candidates at higher levels may also be considered. Successful candidates will be expected to be particularly strong in research and teaching and will be expected to develop a vigorous research program. Postdoctoral experience is highly desirable. Applicants should submit a complete resume, a description of current research, and arrange for three letters of recommendation to be sent to: Professor Russell N. Grimes, Chairman, Inorganic Search Committee, Department of Chemistry, University of Virginia, Charlottesville, VA 22901. The University of Virginia is an Equal Opportunity/Affirmative Action Employer.

PHYSICAL ANTHROPOLOGIST

The Department of Anthropology at the University of Pittsburgh seeks a PHYSICAL/BIOLOGICAL ANTHROPOLOGIST with expertise in population biology or demography for a tenure-stream faculty position at the ASSISTANT PROFESSOR level to start fall 1995, subject to budgetary approval. Applicants should have a strong record of research, publication, and teaching. The successful candidate will be expected to develop an active research program involving undergraduates and the master's students. Applicants must have a Ph.D. and postdoctoral experience preferred. Send curriculum vitae with a statement of teaching philosophy, research goals and three letters of recommendation by November 15, 1994, to: Dr. Javier Peñalosa, Chair, Department of Biology, State University College at Buffalo, 123 de Graw Boulevard, Buffalo, New York 14222. Women and minority candidates are especially encouraged to apply.

BUCKNELL UNIVERSITY, Lewisburg, Pennsylva- nia—ANIMAL BEHAVIOR and BIOLOGY. Strong interdisciplinary interest and training in biology. Required to take responsibility for long-standing, group-bred primate colonies and to involve undergraduates in noninvasive research with primates. ASSISTANT PROFESSOR, entry-level preferred. Tenure-track position begins fall of 1995. Salary competitive and commensurate with qualifications. Send curriculum vitae, statement of research interests, and three letters of reference to: Dr. Dorothy Becker, Department of Biology, University of Pittsburgh, 33606-1490. All materials will be kept in confidence.

ECOLOGY—ASSISTANT PROFESSOR

The Department of Biology, The University of Texas at Austin invites applications for a temporary POSITION beginning in August 1995 to teach Ecology, Advanced Ecology, and Introductory Biology for majors and Biological Science for non-majors. The department is interested in applicants with training in a broad range of ecological fields, with some experience in ecological fieldwork or research in the areas of wetlands and/or coastal ecology. The candidate is expected to engage in research activities that involve undergraduates. Ph.D. required, prior teaching and research experience with undergraduates desirable. Send curriculum vitae, statement of teaching philosophy and research interests, and the names, addresses and telephone numbers of three references who are willing to provide letters of recommenda- tion by December 15, 1994, to: Dr. Roger E. Whittaker, Department of Biology, University of Texas, Austin, TX 78712-1086. Review of applications complete by December 15, 1994, and continue until the position is filled. Mail materials to: Ecology Search c/o Hu- man Biology Department, University of Texas, 401 West 23rd Street, Austin, TX 78712-1086. Equal opportunity/affirmative action employer.

The University of Texas at Dallas invites applications for a faculty position at the assistant professor level in pharmacology. The successful candidate will be expected to develop a vigorous, independent, extramurally funded research program, interact with other research groups, and engage in teaching commitment to professional and graduate education. This position affords excellent opportunities for collaborative research with institutions within the Texas Medical Center. Candidates should submit a letter of application, a curriculum vitae and a summary of research objectives to: Dallas C. Demarest, D.D.S., Chair, Search Committee, Department of Pharmacological and Pharmaceutical Sciences, College of Pharmacy, University of Hous- ton, Houston, TX 77204-5515. Review of applications will begin October 28, 1994, and continue until the positions are filled. The University of Houston is an Equal Opportunity/Affirmative Action Employer; minorities, women, veterans and persons with disabilities are encouraged to apply.
Listed below are a few of the outstanding opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Cell Biology, Biochemistry, Enzymology and Molecular Biology**
Seymour Kaufman, PhD

Research on biological functions of the essential biofactor, tetrahydrobiopterin is being conducted with current emphasis on newer roles, e.g. nitric oxide synthesis, neurotransmitter release, cell proliferation and the immune system. Applicants must have a strong background in molecular biology and cell biology with less than five postdoctoral experience. Laboratory of Neurochemistry (OE-56), NIMH, Building 36, Room 3D30, 36 CONVENT DR MSC 4095, BETHESDA MD 20892-4096.

**Genetic Analysis of T Cell Development**
Paul E. Love, MD, PhD

Research is directed at understanding the cellular and genetic events that regulate thymocyte development and selection. Transgenic and gene targeting methods are used to create overexpression, dominant-negative and loss function mutants in mice and molecular techniques are employed to identify novel genes expressed in early thymocytes. Applicants should have prior experience in immunology and less than five postdoctoral experience. Laboratory of Mammalian Genes and Development (OE-56), NICHD, Building 6B, Room 210, 6 CENTER DR MSC 2780, BETHESDA MD 20892-2780.

**Molecular and Cell Biology**
Michael S. Lan, PhD

Genes from pancreatic beta cells are being studied with emphasis on signal transduction and regulation. Molecular biological approaches to protein tyrosine phosphatases have high priority. Applicants should have a strong background in molecular and cellular biology. Experience with in situ hybridization preferred. Laboratory of Oral Medicine (OE-56), NIDR, Building 30, Room 124, 30 CONVENT DR MSC 4322, BETHESDA MD 20892-4322.

**Molecular Biology and Genetics**
Stephen J. Marx, MD

The genes regulating growth and secretion in endocrine-related tissues are being studied. Emphasis is upon processes whose disruption causes acquired or hereditary disease in man. Major interests include the parathyroid glands and the fibroblast growth factor gene family. Another interest is multiple endocrine neoplasia type I, as a model for simultaneous dysfunction in several glands. Applicants must have less than five postdoctoral experience. Genetics and Endocrinology Section (OE-56), NIDDK, Building 10, Room 9C101, 10 CENTER DR MSC 1802, BETHESDA MD 20892-1892.

**Molecular Immunology and HIV**
Abner L. Notkins, MD

The expression of antibody genes and HIV genes in transgenic mice is being studied. Applicants should have a strong background in molecular biology and virology or immunology. Experience in gene targeting is desirable. Laboratory of Oral Medicine (OE-56), NIDR, Building 30, Room 121, 30 CONVENT DR MSC 4322, BETHESDA MD 20892-4322.

**Molecular Neuropharmacology**
David R. Sibley, PhD

The cellular and molecular biological characteristics of dopamine and other neurotransmitter receptors are being investigated. Cell biology projects include studying biochemical mechanisms of receptor-effector coupling, G protein interactions, and receptor regulation in clonal cell lines. Molecular biology projects involve cloning novel receptor subtypes, analysis and characterization of receptor/gene structure and regulation of gene expression in normal and pathophysiological states. Experimental Therapeutics Branch (OE-56), NINDS, Building 10 Room 5C108, 10 CENTER DR MSC 1406, BETHESDA MD 20892-1406.

**Retroviral Pathogenesis**
Sandra K. Russetti, PhD

The molecular basis for the pathogenicity of murine retroviruses and host resistance to their pathogenetic effects is being investigated. Studies are carried out on leukemia-inducing retroviruses, particularly those causing effects on the erythroid pathway, as well as retroviruses that cause neurological disease. Applicants should have experience in molecular biology and virology and less than five postdoctoral experience. Laboratory of Molecular Oncology (OE-56), NCI, Frederick Cancer Research and Development Center, Building 469, Room 140, Frederick, MD 21702-1201.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings, you may access the NIH EDNET Bulletin Board POSTDOC conference via Internet (wylbur.cu.ni.nih.gov) or modem (1,301-402-2221 or 1,800-358-2221) with parameters set at "7", "Evens", 1200. When connected to NIH, type in "GET MD/PhD, MD, DO, DDS, or DVM) accompanied by previous laboratory research experience, and would like to be considered for one of these positions, please send a cover letter, curriculum vitae, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
EVALUATION VERTEBRATE ECLOGIST

Teach evolution, community ecology, and phylogenetics to majors and non-majors.

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Teach animal physiology, human anatomy and physiology, general and biological psychology, and psychology courses for non-majors.

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Teach medical and veterinary science, cell biology, and disease mechanisms to non-majors.

BIOLOGICAL SCIENTIST

Teach general biology and non-majors.

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Teach in preprofessional programs for students interested in pursuing careers in medicine, pharmacy, and veterinary science.

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Teach in the areas of molecular and cell biology, development, genetics, and immunology.

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Teach in the areas of molecular and cell biology, development, genetics, and immunology.

VISITING ASSOCIATE PROFESSOR

Teach in the areas of molecular and cell biology, development, genetics, and immunology.

VISITING PROFESSOR

Teach in the areas of molecular and cell biology, development, genetics, and immunology.

PROFESSOR

Teach in the areas of molecular and cell biology, development, genetics, and immunology.

This position is open to all qualified candidates, including women, minorities, veterans, disability, and non-traditional candidates. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer, and women, minorities, and veterans are encouraged to apply.

The College of Pharmacy and the Department of Animal Science at the University of California, Davis invites applications for full-time, tenure-track positions at the Assistant Professor level in Molecular and Cell Biology. The Department of Animal Science is located within the College of Agricultural and Environmental Sciences and conducts research and education programs in animal genetics, nutrition, and physiology. Successful candidates will be expected to develop an independent research program that addresses fundamental questions in the molecular and cell biology of animal cells.

The University of California, Davis is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.
Howard Hughes Medical Institute

Postdoctoral Research Fellowships for Physicians

1995 Competition

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

Fellowship Terms

- Three years of support
- Full-time fundamental research
- $40,000–$57,500 annual stipend
- $16,000 annual research allowance
- $13,000 annual institutional allowance

Eligibility

- M.D., M.D./Ph.D., M.B.B.S., or D.O., with the first medical degree awarded no earlier than 1985
- At the start of the fellowship
  at least two years of postgraduate clinical training completed
  no more than two years of postdoctoral research training completed
- Applicants (and fellows) may not have faculty appointments
- Fellows may not be enrolled in graduate degree programs
- No citizenship requirements: U.S. citizens may study abroad, but others must study in the United States

Schedule

- Application deadline: January 4, 1995
- Awards announced: July 1995
- Fellowships start: September 1, 1995–September 1, 1996

1995 Program Announcements and Applications

Howard Hughes Medical Institute
Office of Grants and Special Programs
Department CC95
4000 Jones Bridge Road
Chevy Chase, MD 20815-6789, United States of America
Telephone (301)215-8889
Fax: (301) 215-8888
Internet: fellows@hhmi.org

The Howard Hughes Medical Institute, an Equal Opportunity Employer, welcomes applications from all qualified candidates and encourages women and members of minority groups to apply.
ENDOWED CHAIR IN PHYSICAL CHEMISTRY UNIVERSITY OF CALIFORNIA, SAN DIEGO

The Distinguished Chair of Physical Chemistry has been established to attract a senior faculty member to the Department of Physical Chemistry at the University of California, San Diego. This is a full, tenured professorship, salary to be commensurate with senior faculty rank on the University of California, San Diego, and to other fields of science, including atmospheric chemistry, physical, biological and materials sciences, will be considered. All applications received by November 15, 1994, or thereafter, will be given consideration.

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

The Department of Molecular and Human Genetics, and Pediatrics are jointly recruiting a DIRECTOR for the Baylor College of Medicine Mental Retardation Research Center (MRRC). The Baylor MRRC was founded in 1988, and is one of the 14 NICHD-supported Centers dedicated to the study of the prevention, treatment, and amelioration of mental retardation and developmental disabilities. The Baylor MRRC currently supports eight core laboratories, 53 research projects, 48 investigators from 15 departments, and 9 New Project Development Awardees. The successful applicant will be a Physician Scientist with an established research commitment to the molecular biology of mental retardation. Board certification in clinical genetics and developmental disabilities is desirable. Applicants should send a letter describing their commitment to mental retardation research and a current curriculum vitae, and should request that three letters of reference be sent to: C. Thomas Caskey, M.D., Chairman, Department of Molecular and Human Genetics, Baylor College of Medicine, One Baylor Plaza, Houston, TX 77030. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

ACADEMIC COORDINATOR—Introduction Biology. Applications are invited for a position in the Section of Evolution and Ecology, Division of Biological Sciences, University of California, Davis, effective July 1, 1995. Ph.D. in biological sciences and extensive experience in teaching laboratory sections required. Position involves assisting instructors and coordinating teaching assistants and laboratory sections in the Biological Sciences 1B (Introductory Biology), directing a TA training course, and involvement in course improvement in Biological Sciences 1B and the Biological Sciences 1B Learning Center. Position open until filled. Applications should be received by December 15, 1994 to receive full consideration. Applicants should send a letter of application and curriculum vitae, and have two letters of recommendation sent to: Judy Stamps, Vice Chair, Section of Evolution and Ecology, University of California, Davis, CA 95616-8755. The University of California is an Affirmative Action/Equal Opportunity Employer.

VAScULAR BIOLoGY TENURE-TRACK FACULTY POSITIONS Washington University Cardiovascular Division

The Cardiovascular Division at Washington University is inviting applications from M.D. or Ph.D. scientists for TENURE-TRACK FACULTY POSITIONS. These positions will expand a vascular biology group with interest in thrombosis, vascular remodeling, and atherogenesis. The successful candidates will be expected to establish high quality independent laboratories with extramural funding. The research efforts of successful candidates will be facilitated by new laboratories currently being constructed. In addition, Washington University will soon complete an 11,000 square foot laboratory that will be particularly attractive to animal-based research. The level of appointment and salary will be commensurate with experience.

Applications including a complete curriculum vitae, future research plans, three reprints of the most significant publications, other references, and a letter sent to: Dr. Michael E. Cain, Director, Cardiovascular Division, Washington University School of Medicine, 660 South Euclid, Box 8086, St. Louis, MO 63110.

POSITIONS OPEN

POSITION ANNOUNCEMENT

Instructor, University of Colorado, Boulder Department of Human Nutrition, and Organismic Biology

The Department of Environmental, Population, and Organismic Biology seeks applicants for two full-time, 12-month, non-tenure-track INSTRUCTORS (Ph.D. required) to begin September 1, 1995. Both instructors will be assigned a full-time teaching load.

Instructor, Allied Health. The instructor will be responsible for teaching laboratory sections of core Biology courses at the University of Colorado. Demonstration of a strong background in one or more of the following: biological chemistry, physical and biological sciences, and physiology.

Instructor, Physiology and General Biology. The instructor will direct, through supervision of teaching assistants, multiple sections of Human Physiology laboratories and laboratories for a non-majors General Biology course, and assist in other laboratory courses as time permits.

For both positions, salaries are $31,000. Specify position of interest, and submit a resume, three letters of reference, and a statement of interest and experience to: Instructor Search Committee, Department of EPO Biology, University of Colorado, Boulder, CO 80309. The closing date for applications is November 1, 1994.

The University of Colorado at Boulder is an Affirmative Action/Equal Opportunity Employer.

FACULTY POSITION CHEMICAL ENGINEERING

The Department of Chemical Engineering at the University of Delaware invites applications for a TENURE-TRACK POSITION at the level of Assistant Professor. Outstanding candidates in any field of chemical engineering will be considered. Either a Ph.D. degree in chemical engineering or a closely related field is required. Successful applicants will be expected to carry out a vigorous research program, to teach and to advise students at both the undergraduate and graduate levels. The Chemical Engineering Department is developing highly interconnected laboratories and computational facilities for both experimental and theoretical research. Please send a resume, a description of research and teaching interests, and the names, addresses and telephone numbers of three references to: Search Committee Chairman, Department of Chemical Engineering, University of Delaware, Newark, DE 19716-3110. Applications must be postmarked by November 15, 1994.

The University of Delaware is an Equal Opportunity Employer which encourages applications from minority group members and women.

The MAYNARD A. AMERINE PROFESSORSHIP Department of Viticulture and Enology University of California, Davis

Nominations and applications are invited for a distinguished tenured position as the MAYNARD A. AMERINE PROFESSOR OF Enology and Viticulture. The appointee will have teaching and student advising responsibilities and will be expected to initiate a research program pertinent to the California grape and wine industry. The monetary award from the Amerine Chair is to support research in this area. The appointment as Amerine Chair is for five years, subject to reappointment. The position is available July 1, 1995. Qualifications include a Ph.D. or equivalent degree in a discipline relevant to viticulture and/or enology, teaching and research experience in a relevant discipline, and a record of scholarly and academic achievement. Disciplines encompassed by the department include plant and microbial genetics and biochemistry, plant pathology, virology, physiology, chemistry, sensory science, and chemical and biochemical engineering. Applicants should submit a curriculum vitae with a list of publications, a description of research plans, and names and addresses of at least three references to: Ann C. Nohr, Search Committee Chair, Department of Viticulture and Enology, University of California, Davis, CA 95616-8749 USA. Closing date extended to February 1, 1995, pending budget. The final filing date will not be considered unless the position is reopened for recruitment. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

DILECTRIC STUDIES OF CELLS

Two POSTDOCTORAL POSITIONS are available immediately in a multidisciplinary group actively applying dielectrophoresis and dielectrophoretic measurements to the study of interactions between cell types both for phenotypic characterization and cell sorting. Emphasis is also placed on the development of new technology for achieving these aims. Applicants must have a Ph.D. in biology, physics, or engineering, with a strong background in one or more of the following: dielectric measurements of aqueous or biological systems; electronic or optical systems operating in the kHz, MHz, or GHz frequency range; solid state electronics and dielectric analog circuit design; or software development in Fortran or C for electrical field calculations or for image analysis and pattern recognition. Send curriculum vitae and names of three references to: Peter Gascoyne, Ph.D., Department of Molecular Pathology, Box 89, University of Texas M.D. Anderson Cancer Center, 1515 Holcombe Boulevard, Houston, TX 77030. FAX: 713-792-5940. An Equal Opportunity Employer. Smoke-free environment.

BIOENGINEERING FACULTY POSITION

University of Illinois at Chicago invites applications and nominations for a FACULTY POSITION in the Biomedical Engineering Program at either the junior or senior level, with a starting date anytime during the 1995-96 academic year. The Biomedical Engineering Program, one of the first such programs in the United States, offers degrees in Biomedical Engineering at the B.S., M.S. and Ph.D. levels. Although candidates with a recognized area of Biomedical Engineering will be considered, we particularly seek candidates with competence to work at the cellular or molecular level. Postdoctoral experience in biochemistry, molecular biology, or physiology would be helpful, but is not mandatory. The Program currently has areas of concentration in Biotechnology, Biomechanics, Biomedical Imaging, Biomedical Signal Processing and Data Analysis, and is developing new concentrations in Biomaterials, Cardiovascular Biomedical Engineering, and Environmental Pulmonary Medicine. Candidates with experience in research that is translational and must possess the Ph.D. degree in Biomedical Engineering or in a related field. The appointee will hold a faculty position in one of the Departments in the College of Engineering and the appointee’s expertise and interests. Applicants should submit a curriculum vitae and the names of three references to: Irving F. Miller, Director, Biomedical Engineering Program (M/C 063) University of Illinois at Chicago 851 South Morgan Street, Room 1021 Chicago, IL 60607-7052. Closing date for applications is February 1, 1995. The University of Illinois is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITION MICROBIOLOGY AND IMMUNOLOGY BOSTON UNIVERSITY MEDICAL CENTER

The Department of Microbiology is seeking faculty in the areas of Virology and Immunology and Pathogenesis. In the area of virology, we are particularly interested in applications from persons with research interests and experience in the study of retroviruses, although other areas of virology will also be considered. In the area of immunology and pathogenesis, applications from persons studying either viral pathogenesis or bacterial pathogenesis and immune function will be considered. We are seeking candidates with a strong research record, a commitment to developing independent and innovative research programs, and who have interests in graduate and medical education. At least one of the positions is expected to be filled at a senior faculty rank. The Department of Microbiology will expand into newly renovated research space, scheduled for completion in late summer 1995. Interested candidates should send a letter, curriculum vitae, a summary of research accomplishments and future research plans, and the names of three references to: Dr. Ronald B. Corley, Ph.D., Department of Microbiology, Boston University School of Medicine, 80 East Concord Street, Room 406, Boston, MA 02118. The Department of Microbiology and Boston University are committed to Affirmative Action/Equal Employment Opportunities and encourage applications from women and minorities.
Postdoctoral Fellow

The Skin Biology Research Center of Johnson & Johnson, located at The R. W. Johnson Pharmaceutical Research Institute in Raritan, New Jersey, is seeking a postdoctoral fellow to participate in studies on the biology of skin and hair.

Since the project in question addresses the important epithelial-mesenchymal interactions occurring in skin relevant to skin diseases, scarring, and skin aging, we are looking for a scientist trained in molecular and cellular biology with a keen interest in biological inductive phenomena. Because the scientists in this unit are encouraged to publish their work, the successful candidate should show a good publication record. The facility is well-equipped with the most modern investigative tools and houses a full library.

The laboratories are located in a beautiful part of New Jersey, near Princeton and half way between New York City and Philadelphia. Interested individuals should send their c.v., list of publications and three references to: Dept. 75, Johnson & Johnson Recruiting, Employment Management Center, P. O. Box 16597, New Brunswick, NJ 08906-6597.

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

Johnson & Johnson

MOLECULAR GENETICS AND GENE THERAPY
Postdoctoral Research Opportunities at the University of Iowa

Postdoctoral research opportunities in molecular medicine are available in the new Eckstein Medical Research Building at the University of Iowa to study the molecular genetics and gene therapy of human diseases. Applicants should have a Ph.D. and a strong background in either molecular biology, cell biology or genetics. For prompt consideration, send letter of application, curriculum vitae, reprints and names of three references.

Kevin Campbell - Molecular studies of dystroglycan and its role in muscular dystrophy; gene therapy for autosomal recessive muscular dystrophy (kevin-campbell@uiowa.edu FAX: 319-335-6957).

Beverly L. Davidson - Gene therapy for metabolic central nervous system diseases including Lesch-Nyhan disease and lysosomal storage disorders (MPS VII). Molecular studies and pathophysiology of Lesch-Nyhan syndrome (beverly-davidson@blue.west.uiowa.edu FAX: 319-335-7623).

John Donelson - Molecular mechanisms responsible for immune evasion by parasites that cause various tropical diseases such as sleeping sickness, river blindness and Chagas' disease (jedonelson@vaxx.west.uiowa.edu FAX: 319-335-6764).

Gary Koretzky - Signal transduction in human lymphocytes, relationship between protein tyrosine phosphatases and protein tyrosine kinase in receptor signaling (gary-koretzky@uiowa.edu FAX: 319-335-6687).

Jeffrey Murray - Positional cloning and molecular genetic epidemiologic approaches to human craniofacial defects and common trait variation (jeff-murray@uiowa.edu FAX: 319-335-6970).

Val Sheff - Positional cloning and molecular study of human genetic disease loci involved in a variety of disorders including hereditary blindness, obesity and hypertension (val-sheff@uiowa.edu FAX: 319-335-3347).

Michael Welsh - Structure, cell biology, and mechanisms of disease involving CFTR Cl channels and Nt channels (EnaC), gene therapy for cystic fibrosis and other lung diseases (mjwelsh@blue.west.uiowa.edu FAX: 319-335-7623).

Eckstein Medical Research Building
The University of Iowa College of Medicine
Iowa City, IA 52242

Iowa City is a safe and affordable college community with many cultural amenities, and is within easy driving distance of Chicago, St. Louis, and Minneapolis/St. Paul.

The University of Iowa is an Affirmative Action/Equal Opportunity employer. Women and minorities are encouraged to apply.

Massey University is an innovative academic institution with a history of growth since its foundation in 1927. Today, through its nine faculties and three schools it teaches over 11,000 full-time equivalent students in New Zealand and throughout the Pacific Basin. The main campus is situated in beautifully landscaped grounds in a parklike setting surrounded by University farmland. The City of Palmerston North (population 70,200) is centrally located in the southern half of the North Island, and hosts four tertiary education institutions and several major government and private research institutions. The lifestyle is cosmopolitan but relaxed and friendly. A second campus of Massey University was opened at Albany, on the North Shore of Auckland, in 1993.

CHAIR IN ECOLOGY

Applications are invited for the newly established Chair in Ecology and the Head of Department. The successful candidate should be an ecologist with a strong record in quantitative and theoretical research. Experience in conservation and restoration ecology, ecological modelling, and population genetics will be of particular interest to the University. The person appointed to the position will be expected to continue a vigorous programme of research in ecology and to link ecology with related subjects throughout the University. Administrative skills and the ability to enthuse students are also important attributes.

The Department of Ecology has a strong commitment to research. Current programmes span a range of pure and applied ecology topics including population and conservation biology, community ecology, limnology, biogeography, systematics of plants and animals, entomology, plant-animal interactions and environmental ecology. The Department plans to strengthen and expand its activities in these areas.

Enquiries of an academic nature may be made to Professor T J Brown, Head of the School of Biological Sciences within the Faculty of Science, telephone (64) 6 350-4011, facsimile (64) 6 350-5637, email T.J.Brown@massey.ac.nz.

Reference number: Sc 65/94 must be quoted.
Closing date: 15 November 1994.

As a condition of application the University reserves the right to make enquiries of any person regarding any candidate's suitability for appointment, not to make an appointment or to appoint by invitation.

An information package including Conditions of Appointment is obtainable by telephone (64) 6 356-9099 extension 7318.

Applications, including a full curriculum vitae and the names, addresses and fax numbers of three referees should be sent to Mrs V B Bretherton, Personnel Section before the closing date specified.

Equality of opportunity is University policy.
POSTDOCTORAL POSITION available for Ph.D. or M.D. with experience in primary cell culture to establish and characterize cell lines from breast and uterine cancers. Previous experience in DNA/RNA isolation, RT-PCR, or sequencing and an interest in steroid hormone signaling is desirable. Please send curriculum vitae and names, addresses, and telephone numbers of three references to: John R. D. Staley, Ph.D., Department of Biological Sciences, University of Kentucky, Rm. 2130, 301 South Limestone Street, Lexington, KY 40506. Applicants are encouraged to visit the following websites to learn about the diverse training opportunities available in the laboratory: http://www.uky.edu/biochemistryhttp://www.uky.edu/bioinformaticshttp://www.uky.edu/bioinformatics/affiliationhttp://www.uky.edu/bioinformatics/education

POSTDOCTORAL POSITION available immediately to study the neurobiology of Drosophila melanogaster. Candidates will be expected to work closely with animal models of disease that cause defects in movement and cognition. Research will be conducted using state-of-the-art techniques that include genetic manipulation, behavioral analysis, and neurophysiology. Send curriculum vitae and names of three references to: Dr. Morris Freedman, Psychiatry, 53706. Email inquiries: mbfreedr@umich.edu

POSTDOCTORAL POSITION available immediately to study the molecular and cellular biology of malignant melanoma. Applicants should have a Ph.D. in Biochemistry, Cell Biology, or related fields. Please send curriculum vitae and three letters of recommendation to: Dr. Robert M. Levine, Cancer Biology Program, National Cancer Institute, Bethesda, MD 20892. The Program in Molecular Biology at The National Institutes of Health (NIH) invites applications for tenure-track positions; rank and salary will be commensurate with experience. The applicant must possess a doctoral degree, postdoctoral experience, and a strong record of research accomplishments in the field of molecular biology. Kindly forward a complete curriculum vitae, including publications, complete contact information for three referees, and a statement of research interests to: Dr. Robert L. Engler, M.D., Chief Research Service, VAMC (151), 3350 La Jolla Village Drive, San Diego, CA 92161-6002. Email: sylviaj@violet.berkeley.edu

POSTDOCTORAL POSITION available to study the molecular and cellular biology of malignant melanoma. Applicants should have a Ph.D. in Biochemistry, Cell Biology, or related fields. Full range of research positions, including tenure-track positions for those with a strong record of research accomplishments in the field of molecular biology. Kindly forward a complete curriculum vitae, including publications, complete contact information for three referees, and a statement of research interests to: Dr. Robert L. Engler, M.D., Chief Research Service, VAMC (151), 3350 La Jolla Village Drive, San Diego, CA 92161-6002. Email: sylviaj@violet.berkeley.edu

POSTDOCTORAL POSITION available immediately to study the molecular and cellular biology of ovarian cancer. Applicants should have a Ph.D. in Cell Biology, Biochemistry, or related fields. The laboratory is oriented toward the study of ovarian cancer biology, with an emphasis on understanding the role of the tumor suppressor gene PTEN in ovarian cancer. Send curriculum vitae and names of three references to: Dr. Robert M. Levine, Cancer Biology Program, National Cancer Institute, Bethesda, MD 20892.

POSTDOCTORAL POSITION available immediately to study the molecular and cellular biology of ovarian cancer. Applicants should have a Ph.D. in Cell Biology, Biochemistry, or related fields. The laboratory is oriented toward the study of ovarian cancer biology, with an emphasis on understanding the role of the tumor suppressor gene PTEN in ovarian cancer. Send curriculum vitae and names of three references to: Dr. Robert M. Levine, Cancer Biology Program, National Cancer Institute, Bethesda, MD 20892.

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The Department of Genetics plans to hire several new faculty members over the next three years. Applications for junior level, tenure track faculty positions are invited. Applicants utilizing genetic model systems to address biological problems will be considered. Responsibilities include establishment of a strong and interactive research program and a commitment to graduate and/or medical student education.

Applicants should send a curriculum vitae and a statement of current and future research plans and arrange for the submission of three letters of reference by December 1 to:

Search Committee
Attention: Norma Brown
Department of Genetics
Box 8232
Washington University School of Medicine
4566 Scott Avenue
St. Louis, MO 63110

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**POSTDOCTORAL FELLOWSHIPS**

**at the**

**WOODS HOLE OCEANOGRAPHIC INSTITUTION**

**Applied Ocean Physics & Engineering**

**Biology, Marine Chemistry & Geochemistry**

**Marine Geology & Geophysics**

**Physical Oceanography**

Applications are invited from new or recent doctorates in the fields of biology, molecular biology, microbiology, chemistry, engineering, geology, geophysics, mathematics, meteorology and physics, as well as oceanography. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise. Fellowships are awarded for 12-18 month appointments with a stipend of $36,000 per year, plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interest in association with resident staff. Completed applications must be received by January 15, 1995 for the 1995-96 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box S, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. Or call (508) 457-0100, ext 2200 or Email bederemer@whoi.edu.

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**BROWN UNIVERSITY**

**Division of Biology and Medicine**

**Molecular Pharmacologist**

**Assistant or Associate Professor**

A position is open at the rank of Assistant Professor (tenure track) or Associate Professor (tenured) for an innovative individual with research interests in the structure-function relationships of drug targets, such as cell surface receptors, ion channels, enzymes, or other signal transduction elements. Individuals with particular expertise in the application of molecular biological techniques and modern methods of structure-function analysis are encouraged to apply. Applicants should have at least two years of postdoctoral training and the potential or demonstrated ability to develop an independent, externally-funded research program. General teaching responsibilities include pharmacology instruction for medical students, as well as participation in undergraduate and graduate education. Opportunities exist for interactions with a wide range of excellent faculty throughout the University. The appointment will begin on or after 7/1/95. Applications received by 11/30/94 will receive full consideration. Applicants should submit a resume including research and teaching experience, future research plans, and a list of publications; enclose representative reprints; and have at least three letters of reference (five for Associate) sent to: Edward Hawrot, Chairman, Department of Molecular Pharmacology & Biotechnology, Box G-B487, Brown University, Providence, RI 02912.

**Molecular Neurobiologist**

**Assistant Professor**

Tenure track faculty position for individual with expertise in molecular neurobiology with research that will complement the department’s interest in sensory and motor systems, learning and memory, synaptic plasticity, and neuronal function. Candidates must have a Ph.D. or M.D. and postdoctoral experience, show evidence of ability to establish an independent, externally funded research program, and demonstrate the potential for excellence in teaching. Brown has active graduate programs in Neuroscience and Molecular & Cell Biology. Applications received by 11/30/94 will receive full consideration. Submit a curriculum vitae, set of representative reprints, and description of research interests and goals, and arrange for three letters of reference to be sent to: John Donoghue, Search Committee, Department of Neuroscience, Box 1953, Brown University, Providence, RI 02912.

Women and minority candidates are encouraged.

Brown University is an Equal Opportunity/Affirmative Action Employer.
POSTDOCTORAL or RESEARCH ASSOCIATE position available immediately for studies of ion channels in osteoclasts. Applicants should have Ph.D. or equivalent research training in biophysics, physiology or cell biology with expertise in calcium signaling. We utilize patch clamp and fluorescence methods to study the cellular basis of bone resorption (e.g., J. Physiol., 458:633, 1992 and 475:377, 1994). Send curriculum vitae, summary of research interests, and list of publications to: John F. Sheridan, Ph.D., Box 192 Postle Hall, 305 West 12th Avenue, The Ohio State University, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer. Qualified women, minorities, Vietnam-era veterans, disabled persons and individuals with disabilities are encouraged to apply.

POSTDOCTORAL FELLOWSHIP IN PSYCHO-NEUROIMMUNOLOGY & INFECTIOUS DISEASES

A POSTDOCTORAL position for an M.D. or Ph.D. is available immediately in the Division of Infectious Diseases in the Department of Internal Medicine at the Ohio State University College of Medicine and is the Department of Immunology of Infectious Diseases at the Research Institute of the Ohio State University Medical Center. This opportunity provides the candidate with an active and productive environment and is designed to facilitate young investigators' training in the field of infectious diseases and infectious immunology. The candidate is expected to collaborate with other investigators in the Division of Infectious Diseases and other departments at the Ohio State University. The candidate will be supervised by an infectious immunologist or infectious disease specialist and will have the opportunity to conduct research in one of several areas including: (1) Immunological mechanisms in immune regulation and immune responses to infectious agents; (2) Molecular and cellular mechanisms of viral and bacterial pathogenesis; (3) Host factors in infectious disease; (4) Immunomodulation of immune responses; (5) Immunopathogenesis of infectious diseases. Applicants should have a Ph.D. or M.D. and should have completed postdoctoral or equivalent research training. Send application letter and curriculum vitae to: David B. Rosenfeld, M.D., H.J. Heinz III Laboratories, Research Institute, Ohio State University Medical Center, 451 W. 10th Avenue, Columbus, OH 43210. The Ohio State University is an Equal Opportunity/Affirmative Action Employer.

AVIAN FIBROBLAST/ANATOMIST/MOTOR CONTROL

The Department of Neurology, Baylor College of Medicine seeks application for a tenure-track position at the level of POSTDOCTORATE FELLOW, RESEARCH ASSOCIATE, or INSTRUCTOR. The successful candidate will have demonstrated expertise in techniques of neuroanatomy in avians and will focus on neuroanatomy as well as physiology of speech-related motor output in pittacines and related birds. The successful candidate will have access to facilities related to animal research and is expected to develop an active laboratory in the domain of speech-motor output in pittacines, focusing on anatomy and motor control. Interested candidates should submit a curriculum vitae as well as four letters of recommendation sent directly to: Dr. David B. Rosenfeld, M.D., H.J. Heinz III Laboratories, Research Institute, Department of Neurology, Baylor College of Medicine, Houston, TX 77030. Review of applications begins October 17, 1994, and will continue until a suitable candidate is found. Baylor College of Medicine is an Equal Opportunity/Affirmative Action Employer.

Center for Synchrotron Radiation Research and Instrumentation

Is Seeking a STRUCTURAL BIOCHEMIST

A position in the Department of Chemical and Biological Sciences at Illinois Institute of Technology is currently open. It is anticipated that the initial appointment will be at the RESEARCH ASSOCIATE/ASOCIATE PHYSICIST level, with promotion to tenure-track after two years. We are seeking an experienced macromolecular crystallographer with interest in the development and use of synchrotron facilities for diffraction studies.

Illinois Institute of Technology, through its Center for Synchrotron Radiation Research and Instrumentation, will be responsible for the development of several synchrotron beam lines at the Advanced Photon Source currently being constructed at Argonne National Laboratory near Chicago. The successful candidate will work closely with the Center staff on the development of two beam lines for the Industrial Macromolecular Crystallography Access Line (IMCA), a consortium of 12 chemical and pharmaceutical companies. Upon commissioning of the beam lines, it is anticipated that this faculty member will become Director of IMCA operations at the Advanced Photon Source.

To apply, please send a curriculum vitae and publication list to:

Professor T. J. Morrison, Chair
Department of Chemical and Biological Sciences
Illinois Institute of Technology
Chicago, IL 60616 USA

Illinois Institute of Technology is an Equal Employment/Affirmative Action Employer/Male/Female/Disabled/Veteran.

RESEARCH ASSOCIATE

Ross Products Division of Abbott Laboratories is seeking applicants for the position of RESEARCH ASSOCIATE. Responsibilities will include conducting infectious disease clinical research, developing new study methods, and receiving and monitoring study sites, writing research final reports for internal use and publication, and providing conceptual analysis and study management. Candidates must have a Ph.D. in Microbiology, Virology, Immunology, Molecular Biology or related field. Ideal candidate will have completed postdoctoral training and/or have practical experience and interest in medical application of their basic science training. For consideration, send resume and names of three references to: Milo Hilty, M.D., Ross Products Division, 625 Cleveland Avenue, Columbus, OH 43215.

Molecular Biology of Arteriosclerosis

BOSTON HEART FOUNDATION/MIT ARTERIOSCLEROSIS CENTER

A STAFF SCIENTIST position is available immediately for a molecular biologist with at least two years of experience with expression cloning. Research involves arterial matrix synthesis and its relation to atherogenesis. Qualified individuals are eligible for appointment to the Harvard/MIT Division of Health Sciences and Technology. The Boston Heart Foundation is a non-profit research and clinical center located between MIT and Massachusetts General Hospital whose staff is shared with one or both institutions. To apply, please send curriculum vitae and three letters of reference to: Dr. Robert S. Lees, Professor, Harvard School of Health Sciences and Technology, Boston Heart Foundation, 139 Main Street, Cambridge, MA 02142.

TUFTS/NEW ENGLAND MEDICAL CENTER RESEARCH ASSOCIATE IN RHEUMATOLOGY/IMMUNOLOGY

Position available for T-cell epitope mapping studies of Lynwood disease. The candidate should have experience in mouse and rat immunology and be familiar with enzyme-linked immunosorbent assays (ELISA). Minimum requirements: Ph.D. in Chemistry and three years of experience as a research scientist or three years of postdoctoral experience in infection or immunology. Send resume and letters of reference to: Brian W. Wynn, Ph.D., 230 Washington Street, Box 406, Boston, MA 02111. Fax: 617-956-4825. New England Medical Center is an Equal Opportunity Employer.

RESEARCH CORE FACILITY MANAGER, FLOW CYTOMETRY

The Arthritis and Musculoskeletal Diseases Center at The University of Alabama at Birmingham, Birmingham, Alabama, is currently seeking an experienced FLOW CYTOMETRY OPERATOR. The successful candidate will possess experience in the daily operation of a large multi user core facility. The candidate must have experience necessary to analyze and isolate cell subpopulations based on six (6) parameter flow techniques. Additional experience should include simultaneous DNA/RNA analysis, calcium studies, immunoperoxidase and sorting or DNA of living cells. Experience with FACStar™ or FACScan™ flow cytometers is preferred. This position requires a college degree, five to seven years of experience and certified flow cytometry training. Additional experience may substitute for degree requirement. Competitive salary and generous benefit package. Interested applicants should send a letter of introduction and curriculum vitae to: William J. Franklin, M.D., Department of Pathology, The University of Alabama at Birmingham, Tinsley Harrison Tower, Room 413, Birmingham, AL 35294. FAX: 205-934-1564. The University of Alabama at Birmingham is an Affirmative Action Equal Opportunity Employer.

EXPERIMENTAL ASTROPHYSICIST

The National Solar Observatory (NSO) has a position available for an ASTRONOMER or PHYSICIST to participate in the NSO program to develop adaptive optics systems for solar telescopes. Applicants should have a Ph.D. or equivalent, in astrophysics or physics and should have demonstrated hands-on experience in the planning, construction, testing and commissioning of sophisticated electro-optical systems. The National Solar Observatory has presently under development at its New Mexico Sacramento Peak site an adaptive optics system for the 76 cm aperture Vacuum Tower Telescope. Especially challenging for the solar application of adaptive optics systems is the development of a high speed wavefront sensor capable of being used on relatively low contrast, extraneous objects. The successful applicant will be expected to foster cooperative programs with university-based astronomical adaptive optics programs. The position is a tenure-track position at the Assistant or Associate Professor level with an opportunity for experience and professional background. For more information potential applicants can contact Jacques M. Becker at 602-325-9328 (NSO Kitt Peak site) or 505-434-7001 (NSO Sacramento Peak site); by Email at jbecker@noao.edu. Applications should be received by December 15, 1994, and should include a curriculum vitae and the names of three professional references. Send to: Ms. Revell Rayne, NOAO Human Resources Manager, P.O. Box 26732, Tucson, AZ 85726. An Equal Opportunity/Affirmative Action Employer.

MEDICAL RESEARCH ASSOCIATE

The University of Arizona

Full-time opportunity to join our nationally renowned Harvard-affiliated Research and Training Institute. You will be responsible for managing clinical research studies in cardiovascular disease, specifically including signal processing, data management and analysis, and performance of various cardiovascular laboratory procedures. Will also prepare manuscripts, abstracts, and grant applications. D.O. or M.D., training in research, computer experience, and a strong interest in nonlinear dynamics and aging required. Excellent opportunity for academic advancement.

We are a 725-bed chronic care hospital offering a competitive salary and benefits package. Please send resume to: Alice Divungu, M.D., Rehabilitation, c/o Rehabilitation Center for Aged, 1200 Centre Street, Boston, MA 02131. An Affirmative Action/Equal Opportunity Employer.
POSTDOCTORAL POSITION
MOLECULAR BIOLOGY

Fisons Pharmaceuticals has an immediate opening for a Postdoctoral Fellow in the Department of Biology at its research facility in Rochester, New York. Applicants with an interest in central nervous system, disorders or pathologies involving free radicals are encouraged to apply. Research will focus on the regulation of genes associated with free radical-mediated neuroinflammation and neurodegeneration and will be highly multidisciplinary and collaborative in nature.

The ideal candidate will possess a strong background in molecular biology/protein biochemistry, and knowledge of eucaryotic gene expression will be considered an asset. Excellent oral and written communication skills and the ability to work independently are required. The appointment is for one year, renewable for a second year upon mutual agreement. Excellent salary, relocation, and benefits will be offered to the successful candidate.

For consideration, please send curriculum vitae, relevant reprints, and three letters of recommendation to: Employment Office, REF AD # BEW903, Fisons Pharmaceuticals, P.O. Box 1710, Rochester, NY 14603.

Fisons Corporation
An Equal Opportunity Employer M/F/D/V

DEPARTMENT OF THE ARMY OPPORTUNITIES

Become a member of the Army's research and development community involved in basic and applied scientific research and advanced technological development.

Listed below are career opportunities at various Army laboratories and research, development and engineering centers for senior research scientists and engineers.

Senior Research Scientist (Environmental), Vicksburg, Mississippi (DA-ST-01-94)
Senior Research Scientist (Burn Infections), San Antonio, Texas (DA-ST-02-94)
Senior Research Scientist (Medical Chemical Defense), Aberdeen, Maryland (DA-ST-03-94)
Senior Research Scientist (Biotechnology), Natick, Massachusetts (DA-ST-04-94)
Senior Research Scientist (Low Observable Technology), Warren, Michigan (DA-ST-05-94)
Senior Research Scientist (Theoretical Physics), Research Triangle Park, North Carolina (DA-ST-06-94)
Senior Research Engineer (Aeromechanics), Moffett Field, California (DA-ST-07-94)
Senior Research Scientist (Sensors), Adelphi, Maryland (DA-ST-08-94)
Senior Research Engineer (Information Science & Technology), Adelphi, Maryland (DA-ST-09-94)
Senior Research Engineer (Ceramic Materials), Watertown, Massachusetts (DA-ST-10-94)
Senior Research Scientist (Electromagnetics), Fort Monmouth, New Jersey (DA-ST-11-94)
Senior Research Scientist (Soldier Performance), Aberdeen, Maryland (DA-ST-12-94)

Apply To:
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5001 Eisenhower Avenue
ATTN: AMCPE-CS
Alexandria, VA 22333-0001
(703) 274-9415

Applicants should be recognized as national/international authorities in their research specialties. Salaries range from $79,931 to $115,700 (plus locality pay) per year. Interested individuals should call (703) 274-9415 for application materials. Applications must be postmarked by October 28, 1994.

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Myriad Genetics is a biotechnology company focused on the isolation of human genes that predispose to cancer and coronary heart disease. Myriad is expanding its molecular biology and diagnostic groups. Company facilities are located in Research Park adjacent to the University of Utah. Myriad offers a competitive compensation package, stock option package, and highly stimulating, interactive environment. Positions are available immediately for applicants with strong backgrounds in molecular biology, informatics, genomic research, and/or molecular diagnostics. We are especially interested in postdoctoral fellows and technicians, but highly qualified Ph.D. scientists should also apply. Please send a C.V. and letter of interest outlining your area of expertise to: Dr. Dennis Ballinger, Myriad Genetics, Inc., 421 Wakara Way, Salt Lake City, Utah 84108.
RESEARCH SCIENTIST
Molecular Biologist/Geneticist
(Job No 49)

The Australian Institute of Marine Science (AIMS) is a Commonwealth Statutory Authority which is responsible for conducting marine research for the sustainable development, conservation and management of the nation's marine resources. The Institute also seeks to create opportunities, in conjunction with industry, for technological and commercial development, and to foster collaboration in marine science. Located at Cape Ferguson, 50 km south of Townsville, the Institute is housed in a well equipped laboratory and office complex with extensive support facilities.

AIMS invites applications from suitably qualified persons for appointment as a Research Scientist in the Institute's Environmental Studies and Biotechnology Program. A major focus of the program is marine biology, focussed on the reproductive biology and genetic improvement of cultured marine species, particularly penaeid prawns. We require an innovative molecular biologist/geneticist to define, design, establish and conduct research projects within the broad objectives of existing marine research at AIMS. These are to investigate the molecular and physiological controls of reproduction and growth, and develop means to genetically improve, penaeid prawns. They will have a PhD or equivalent experience in molecular research on gene regulation of key physiological processes in eucaryotes. Postdoctoral experience is desirable.

The appointment is initially for a 3 year fixed term with extension subject to performance and funding availability. A salary within the range of AUD $44,005 to $48,841 is offered depending on qualifications and experience.

Applications, including a resume and the names of three professional referees, should be addressed to:

General Manager Support Services
Australian Institute of Marine Science
PMB No 3
Townsville MC Qld 4810

Applications close 16 November 1994

For further information about this position contact Dr John Benzie on (077) 78 9314
Fax (077) 72 5852. Duty Statement and Selection Criteria are available from (077) 78 9210
(24 hour answering machine). Please quote the applicable Job No.

AIMS is an Equal Opportunity Employer and promotes a smoke free work environment.

AUSTRALIAN INSTITUTE OF MARINE SCIENCE

THE UNIVERSITY OF HONG KONG

Readership in Botany

Applications are invited for a Readership in the Department of Botany (Ref. 94/05-20) tenable from July 1995. The appointment will be made initially on a three-year fixed-term basis.

Applicants should have a PhD with a strong record of research activity and publications as well as some administrative experience and qualities of leadership. The appointee should be able to teach courses in Biology, Plant Biochemistry, Plant Biotechnology and Food Chemistry.

The University reserves the right not to fill the Readership and/or to fill the Readership by invitation.

Annual salary (non-superannuable but attracting 15% (taxable) terminal gratuity) is on a 9-point scale, with starting salary depending on qualifications and experience: HK$66,900 - HK$88,920 (approx. US$86,930 - US$115,488; US Dollar equivalents as at 31 August 1994).

At current rates salaries tax will not exceed 15% of gross income.

Housing at a charge of 7.5% of salary, children's education allowances, leave, and medical benefits are provided.

Further particulars and application forms may be obtained from the Appointments Unit, Registry, The University of Hong Kong, Hong Kong (fax: (852) 559 2098; E-mail: APPTUNIT@HKUVM1.HKU.HK).

Applications are also available on the University's listserv accessed by E-mail as "listserv@hkum1.hku.hk" (specify "get apptmnt filelist" for list of vacant posts, and "help" for details of listserv commands).


RESEARCH BIOCHEMIST AND MOLECULAR BIOLOGIST

General Atomic's Biosciences Division is seeking two energetic and versatile individuals. A biochemist and a molecular biologist to establish new research projects in protein engineering, macromolecule synthesis, and biosensor development. You will work in a multidisciplinary environment and be challenged to develop innovative bioprocesses, bioreagents, DNA sequencing methods, and biosensors. Specific projects will be tailored to the interests and strengths of the successful candidates. Presentation of results at national meetings and publication in peer-reviewed journals is encouraged. JOB Nos: 689-6505 (Biochemist) and 689-9404 (Molecular Biologist)

Candidates should have a Ph.D., strong background in biochemistry or molecular biology, and be capable of carrying out independent research. Expertise in recombinant DNA techniques, yeast genetics, protein biochemistry, and DNA synthesis is preferred along with good communication skills.

General Atomics has been engaged in a wide range of high technology R&D for over 30 years and is currently developing mapping and sequencing technologies for the Human Genome program and studying the regulation of collagenases for wound healing. These positions offer a unique opportunity with the company's exploratory research group which is committed to providing the resources and environment necessary to stimulate scientific creativity. Recent Ph.D. graduates with a strong record of accomplishment are encouraged to apply.

GA offers excellent compensation/benefits and an outstanding work environment including a complete fitness center. We are located on a campus-like setting on Torrey Pines Mesa, one of the most beautiful areas of San Diego.

For prompt consideration, please REFERECE A JOB NUM-BER and forward a CV and brief statement of research interests to: Human Relations Dept. 94-57, General Atomics, P.O. Box 85608, San Diego, CA 92186-9784.
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SR. SCIENTISTS/ CHEMICAL ENGINEERS

As a member of a team of respected professionals in our Biotechnology Development group, you will play a key role in the timely advancement of clinical candidates toward approval via process development and clinical material production in one of the following areas:

Fermentation Process Development

You will be involved in the development of fermentation (E. coli and Cell Culture) of recombinant proteins and viruses in our Union, NJ Development facility prior to the transfer of clinical product. Responsibilities will also include facilitating the transfer of processes to our facility in Switzerland, requiring extensive travel during the clinical production of newly developed materials.

To qualify, you will need a PhD in Biochemistry or Microbiology and 0-3 years of related experience; or a PhD in Chemical or Biochemical Engineering and 0-2 years of related experience. Background must include experience with E. coli and/or cell culture fermentation. For consideration, please respond to: Dept. PL-BD94-09/SC.

Bioisolation Process Development

You will be involved in the development of purification and characterization of recombinant proteins and viruses in our Union, NJ Development facility. Responsibilities will also include facilitating the transfer of processes to our facility in Switzerland, requiring extensive travel during the clinical production of newly developed materials.

To qualify, you will need a PhD in Biochemistry or Microbiology and 0-3 years of related experience; or a PhD in Chemical or Biochemical Engineering and 0-2 years of related experience. Background must include experience in the purification and characterization of proteins. For consideration, please respond to: Dept. PL-BD94-08/SC.

SUPERVISOR CELL CULTURE PLANT

You will have overall responsibility for the process development, scale up and clinical production of cell culture products in addition to the development of fermentation and recovery processes. This will include the day-to-day operations of the cell culture pilot plant and the maintenance of GMP status of the plant and its equipment. You will also coordinate research activities and implement new technologies in mammalian cell culture while supervising technical and non-technical personnel.

To qualify, you will need a PhD in Chemical/Biochemical Engineering, Microbiology or Cell Biology and a minimum of 2 years of related experience; or an MS in the above disciplines and a minimum of 5 years of related experience. Background must include experience with Microbial and Cellular Physiology plus demonstrated ability to plan, develop and direct R&D activities as well as implement new and improved mammalian and bacterial fermentation processes. Expertise in cell culture techniques and excellent supervisory skills essential. For consideration, please respond to: Dept. PL-BD94-10/SC.

We offer an excellent compensation package which includes a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume indicating the Dept. Code for your position of interest and salary requirements to: Human Resources Manager, Schering-Plough Research Institute, 1011 Morris Avenue, Union, NJ 07083. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

Using Science For Human Advantage
Postdoctoral research positions
in steroid/thyroid hormone receptor
biochemistry & molecular biology

A couple of postdoctoral positions for work on the structure and function of steroid/thyroid hormone receptors as well as orphan receptors belonging to the same superfamily are available at the Center for Biotechnology, Novum, Karolinska Institute. The project involves state-of-the-art biochemical, molecular biological and cell biological approaches to understand the structure and function of these transcription factors.

The Center for Biotechnology (CBT) is situated at the South Campus of the Karolinska Institute, encompassing the Novum Research Center and Huddinge University Hospital. CBT has a staff of some 100 persons. Other research areas represented at CBT include molecular immunology and membrane biology. Novum Research Center also contains the Center for Nutrition and Toxicology as well as the Center for Structural Biochemistry (with facilities for X-ray crystallography, NMR-spectroscopy, EM and molecular modelling).

The positions as postdocs/research associates are initially for two years with possibilities for extension for up to four years. Preference is given to applicants with experience in molecular biology. Adequate laboratory resources will be provided.

Applications should be sent to Professor Jan-Ake Gustafsson, Center for Biotechnology, Karolinska Institute, Huddinge University Hospital, Novum, S-141 57 Huddinge, Sweden, together with CV, relevant publications and two recommendation letters.

Senior Scientist
Molecular Biology

Alcon Laboratories has a position immediately available in our Biotechnology Division for a Senior Scientist in Molecular Biology. The selected candidate must be willing to actively collaborate within a multidisciplinary team of biochemists, pharmacologists, and medicinal chemists in identifying and developing drugs for the treatment of ocular disease.

Requirements include a Ph.D. in Biochemistry, Cell Biology or Molecular Biology with at least three years of postdoctoral training in Molecular Biology and a history of productive research, preferably in a pharmaceutical research environment. Experience in gene transfection in vivo is required. Candidates must have a strong background in recombinant DNA techniques, cDNA library construction and screening, plasmid construction, expression systems, and protein production. Preference will be given to applicants with either or strong interests in the genetics of ocular disease.

Interested qualified candidates should send their curriculum vitae, addresses and phone numbers of three references in confidence to: Alcon Laboratories, Inc., Placement and Development, T1-3 (SSMB), P.O. Box 6600, Fort Worth, TX 76115. Equal Opportunity Employer. M/F/D/V. Principals Only. Please.

Dean of the College of Liberal Arts and Sciences
University of Illinois at Chicago

The University of Illinois at Chicago (UIC) invites applications and nominations for the position of Dean of the College of Liberal Arts and Sciences. The appointment will become effective August 1, 1995.

UIC, a Research 1 institution, has 14 colleges, with 17,000 undergraduate and 8,000 professional and graduate students. It is the largest university in northern Illinois. The College of Liberal Arts and Sciences has 22 departments, with approximately 475 faculty. The College serves nearly 11,000 undergraduate and graduate students, and offers 66 undergraduate and 41 master's and doctoral programs. As the largest college at UIC, Liberal Arts and Sciences plays a key role in providing the undergraduate core curriculum and pre-professional programs.

Candidates for the position must have achieved national stature in their field; have a demonstrated commitment to academic excellence and diversity; and be able to provide leadership in advancing the College's research, education, and service missions. The ability to work collegially and effectively with faculty and multidisciplinary constituencies within UIC, and to continue to develop and enhance relationships with external constituencies is essential. The position requires administrative experience that demonstrates a capability to lead a diverse academic unit. A candidate's scholarly accomplishments should qualify him/her to be appointed as full professor.

For fullest consideration, nominations and applications should be received by December 15, 1994. Applications, accompanied by a complete curriculum vitae, should be sent to:

Dr. Ellen Baird, Chairperson
Search Committee for the Dean of the College of Liberal Arts and Sciences
Office of Academic Affairs (M/C 105)
University of Illinois at Chicago
601 South Morgan Street
Chicago, Illinois 60607-7128

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SCIENTISTS
PROTEIN EXPRESSION / PROTEIN PURIFICATION
■ You will be a member of a multi-disciplinary team studying proteins arising from our disease gene discovery programs. Recombinant proteins will be produced and purified to characterize their biological properties and therapeutic potential. You will need to establish efficient protein expression methods including bacterial, mammalian and insect systems. You will also be involved in the development of appropriate purification methods. Ph.D. in Molecular Biology, Biochemistry or Cell Biology, with 2 plus years of experience in protein expression work required.

VECTOR BIOLOGIST
EXPERIMENTAL AND CLINICAL GENE THERAPY
■ Utilizing your understanding of in vitro and in vivo systems, you’ll use viral-based systems to discover novel disease-associated genes for the characterization of their therapeutic potential. Initial focus will be on the development of experimental (cell-based and animal) research models, but human gene therapy applications may be explored in the future. Requires a Ph.D. and/or M.D. with experience in Molecular Biology, as well as 2-3 years’ using viral-based systems, including vector construction and cell infection. Experience with in vivo viral infections in murine (or other animal models) is desirable.

RESEARCH ASSOCIATES
BIOLOGY
■ Independent researcher with extensive experience in establishing and maintaining tissue culture cell lines. Solid molecular biology skills, including experience in sub-cloning, PCR, RNA and DNA isolation, gene expression studies (using stable and transient transfection assays). Proficiency in FACS analysis. BS/MS with 3-5 years of experience.

■ BS/MS researcher with 3-5 years of experience in embryonic stem (ES) cell culture, pro-nuclear injection, transgenic mouse breeding and characterization, mouse embryo micro manipulation. Experience in general molecular biology techniques and tissue culture of other mammalian cell types is a plus.

■ BS/MS in biological sciences with 5+ years of experience in immunohistochemistry, in situ hybridization techniques, along with strong molecular skills.

■ BS/MS in Biochemistry or Molecular Biology with 5+ years of experience in protein expression/protein purification. You will assist in establishing protein expression methods in various systems.

■ In the cDNA core group, you will use your extensive knowledge of both construction and screening of cDNA libraries for the purpose of new gene discovery. BS/MS with 5+ years’ relevant experience.

DIRECTOR OF BUSINESS DEVELOPMENT
■ The Director of Business Development will help lead our strategic planning, licensing and market analyses programs. You will work with our outstanding research groups to develop both short and long term product opportunities and new technologies, determine optimal business development strategies and propose deal structures.

Primary responsibilities will include negotiating technology licenses and collaborations with universities, identifying and analyzing potential partners for alliances, participating in, conceiving, structuring and negotiating corporate partnerships and joint ventures, representing the company in a variety of corporate development conferences.

Your professional background should include a BS or a more advanced degree in a life science field. An MBA or equivalent experience with 5+ years of business development experience in a biotech company is preferred.

MILLENNIUM PHARMACEUTICALS
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ASSOCIATE VICE PRESIDENT for RESEARCH
LOYOLA UNIVERSITY OF CHICAGO

Loyola University of Chicago invites applications or nominations for the position of Associate Vice President for Research. The Associate Vice President for Research will also serve as the Director of University Research Services. We seek candidates with an earned doctorate (M.D., Ph.D., etc.), outstanding academic credentials commensurate with senior faculty member in a university department, previous experience in research administration, and a strong commitment to facilitating research and its development in a university setting.

The Associate Vice President for Research will be responsible for 1) the development, implementation, and supervision of policies governing the conduct of research and research programs throughout the University, 2) the coordination and management of research services offices and activities provided at Loyola’s Lake Shore, Water Tower, and Medical Center Campuses, 3) serving as the representative and advocate for the research community by providing advice and consultation to the University administration, Deans, Academic Chairs, and Faculty that will enhance the University’s research mission, 4) representing the University research community in matters pertinent to local, state, and federal research related issues, 5) working with Faculty and the University Development office to identify and facilitate opportunities for research funding, 6) overseeing the University Research Committee, safety committees, and all technology transfer activities. The Associate Vice President for Research reports jointly to the Senior Vice President and Dean of Faculties, and to the Executive Vice President for the Medical Center.

Loyola University of Chicago, a private Jesuit institution, is composed of the College of Arts & Sciences, Mundelein College, and the Schools of Business, Education, Law, Medicine, Nursing, Social Work, and the Graduate School.

Please address all questions and nominations/applications with a current Curriculum Vitae by October 30, 1994.

Associate Vice President for Research Search Committee
Loyola University Chicago
Room 0742
2160 South First Avenue
Maywood, Illinois 60153
TX: 708-216-5840
FAX: 708-216-9433

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Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, Tennessee 37831-0117
(615) 576-9975

Tenure/Track Faculty Position
University of Minnesota Medical School

Applications are invited for the position of Assistant Professor (Tenure-Track) in the Department of Pharmacology, Medical School. Successful candidates are expected to establish an outstanding independent research program, in addition to teaching, in the area of molecular pharmacology. Requirements include a Ph.D. in Biochemistry, Cell Biology, Molecular Biology, Pharmacology or related field, or an M.D., and 2 years of postdoctoral research experience. Candidates with a strong research background and experience using recombinant DNA technology for studying pharmacological problems and/or molecular biological problems are preferred. Applicants for Assistant Professor must have demonstrated involvement in quality research published in peer reviewed journals.

Appointment as Associate Professor (tenured) or Full Professor (tenured) may be considered for applicants who meet the qualifications established by the University of Minnesota. Associate Professor qualifications: Professional distinction in published research and demonstrated effectiveness in teaching and advising. Full Professor qualifications: National reputation in research and evidence of leadership in candidate’s professional field. Evidence of consistently attracting extramural funding for research is required for appointment at the level of Associate or Full Professor.

Applicants should indicate level of position they are applying for and send a curriculum vitae, significant reprints, a statement of research plans, and three names for reference purposes to: Dr. S. A. Thayer, Chairperson of Search Committee, Department of Pharmacology, 3-249 Millard Hall, University of Minnesota, 435 Delaware Street S.E., Minneapolis, Minnesota 55455. Deadline for receipt of applications is October 14, 1994. Approximate start date January 1, 1995.

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TECHNICAL SALES REPRESENTATIVE

Stratagene, an innovative supplier of molecular biology research products, is in search of a qualified and experienced Technical Sales Representative. This position represents a unique opportunity for qualified individuals to participate in a growing technical sales organization. The position is available immediately in the Los Angeles territory.

Candidates should have strong practical experience in Molecular Biology or related field. Prior sales experience is beneficial. Sales Representative will attend an extensive training program at our beautiful coastal location in La Jolla, California. Stratagene offers an excellent company benefits package, including a 401(k) plan, and a competitive salary and incentive program. All qualified candidates forward resume of qualifications to:

Stratagene, Attn: Professional Staffing, 11099 N. Torrey Pines Rd., La Jolla, CA 92037. AA/EOE.

CETACEAN BIOLIGIST

The Biology Department invites applications for entry-level, tenure-track faculty position in cetacean biology. We are particularly interested in an individual with interests in feeding ecology, life history, population biology, and conservation biology of cetaceans. Candidate's research program should complement existing strengths in cetacean biology at WHOI, particularly those in behavior and bioacoustics. Successful candidate will be expected to have a vigorous research program, with demonstrated ability to obtain external funding, and will be encouraged to participate in the joint MIT/WHOI graduate education program. Ph.D. and postdoctoral experience required.

To apply, send curriculum vitae, statement of research interest, and names of three references by November 30, 1994 to: Biology Department Chair, Box 5443, Woods Hole Oceanographic Institution, Woods Hole, MA 02543. WHOI is a smoke free workplace.

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RESEARCH SCIENTIST

COMPUTATIONAL BIOLOGY

We seek a Research Scientist to work with a scientific programmer and provide general support for a high-throughput sequence analysis project. Research functions will include the establishment of new analyses and refining existing analyses with a goal of maximizing the signal-to-noise ratio. Candidate must have a Ph.D. in Molecular Biology or related field. Also requires knowledge of diverse gene families and genetic diseases, four years' experience with DNA and protein sequence analysis and comparison, familiarity with the concepts of relational databases, and at least 3 years' programming experience. Excellent communication skills with non-experts is essential. Familiarity with 4th Dimension for the Macintosh is desired. (Job Code: OA-SC-SC-005)

NEUROSCIENCE PROGRAM

The following positions require a Ph.D. in Biology or related discipline:

MOLECULAR BIOLOGISTS

We currently seek Molecular Biologists to clone, express, and study novel neurotrophic agents or G-protein-coupled receptors for neuropeptide ligands. Preference will be given to the applicants with at least 3 years of post-doctoral experience, excellent training in a broad range of molecular methods, and demonstrated success in cloning novel genes using homology screening, PCR, and expression. (Job Code: OA-SC-FC-002)

PHARMACOLOGISTS

Pharmacologists are needed to establish and validate in vivo models of CNS degenerative disease and nerve damage. The position will involve close interaction with a variety of discovery groups at Amgen with novel genes whose potential therapeutic value in the nervous system needs to be evaluated. Preference will be given to applicants with at least 3 years of post-doctoral experience and a strong record of publication in a variety of neurological models. (Job Code: OA-SC-FC-003)

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FACULTY POSITION
Molecular Cardiovascular Biology

The Division of Molecular Cardiovascular Biology housed within the Department of Pediatrics, Children's Hospital Medical Center is seeking applications for a tenure track position to be filled at the Assistant Professor level. The successful candidates will have the Ph.D., M.D. or M.D.-Ph.D. degree and at least two years of postdoctoral research experience. Holders of the M.D. degree will have the opportunity to assume some clinical duties within the Department of Pediatrics, Division of Cardiology, but will be expected to devote at least 80% of their time to building a research program. Division faculty are encouraged to participate in the multidisciplinary graduate programs in Developmental Biology and/or Cell Biology and can participate in the graduate teaching programs of the University of Cincinnati College of Medicine. Areas of research emphasis include but are not limited to: mammalian development, basic studies in cardiovascular structure, and molecular and genetic analyses of normal and abnormal heart function. However, research excellence is more important than a particular category. Individuals able to take advantage of the significant investments in the transgenic and gene targeting technologies made by the Children's Hospital Research Foundation and the University of Cincinnati, College of Medicine are particularly encouraged to apply. Applications should include a comprehensive curriculum vitae and the names of three references. A summary of past research and future plans for an independent research program should be included. Applications should be sent to: Jeff Robbins, Children's Hospital Medical Center, Children's Hospital Research Foundation, Division of Molecular Cardiovascular Biology, TCHRF, Room 3057, 3333 Burnet Avenue, Cincinnati, OH 45229-3039.

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POSTDOCTORAL RESEARCH
Molecular and Structural Biology
Pacific Northwest Laboratory

Several opportunities are available for postdoctoral research within the Molecular and Structural Biology Section of the Pacific Northwest Laboratory (PNL). PNL is one of the Department of Energy's multidisciplinary National Laboratories and is expanding programs in molecular and structural biology. Staff and research interests include:

Michael Bowman - metalloenzyme structure and function; biological free radical processes; pulsed electron spin resonance
Charles Edmunds - cell cycle changes in chromatin structure; protein modifications in response to environmental insults
Ralph Elston - marine biomedicine, marine microbiology, aquatic health management
Alfred Fueckrell - electron transfer during radiation-induced damage to DNA; proteins recognizing damaged DNA
Michael Kennedy - influence of DNA damage on DNA-protein interactions; protein structure-function relationships
Jeffrey Saffer - microbial genome research; alteration of mammalian gene expression by environmental agents
Richard Schneider - identification and use of industrially important microbial genes
David Springer - DNA damage and repair; DNA/protein interactions in chromatin
Brian Thrall - structure/function relationships in nucleotide excision repair

Fellowship stipends range from $30,000 - $45,000. Inquiries or applications (curriculum vitae and the names of three references) should be addressed to Dr. Jeffrey Saffer, Manager, Molecular and Structural Biology, Pacific Northwest Laboratory, P.O. Box 999, Richland, WA 99352 (E-mail: jd_saffer@pnl.gov).

JPL/NASA VISITING SENIOR SCIENTIST
Space Biomedical Research

The Jet Propulsion Laboratory invites applications to the Visiting Senior Scientist Program in the area of Space Biomedical Research. The position requires a PhD or equivalent degree, along with research experience and a record of research publications. Although any qualified person may apply, tenured faculty members with experience in NASA's Biomedical Research Program are the preferred choice. Responsibilities include aiding in the planning and implementation of the Biomedical Research Program within the Life Sciences Division at NASA Headquarters. Duties include extensive contacts with the research community, conducting peer reviews of research proposals, recommending selection of investigations as well as assisting in the maintenance of a balanced and productive program within budgetary resources. The appointee is expected to work closely with managers at several NASA centers and to advise potential investigators from the university community as to how their plans relate to the NASA Biomedical Program. Frequent travel and residence near NASA Headquarters (in the Washington, D.C. area) will be required. For more information about the scope of the program and position responsibilities, contact Dr. James Schrom at the NASA Space Flight Division, (202) 358-1461.

Tenured faculty members are the preferred choice, although qualified individuals from non-profit research institutions may also be considered. This position is open for immediate filling. Normal assignments in the Visiting Senior Scientist Program does not exceed two years. Appointees must be U.S. citizens or Permanent Residents, and are expected to return to their home institution following their NASA assignment. Please provide curriculum vitae, bibliography and the names of four references to:

Dr. Frederick H. Shair, 183-900, Jet Propulsion Laboratory, 4800 Oak Grove Drive, Pasadena, CA 91109, (818) 354-8251. An Equal Opportunity Employer M/F

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SENIOR PRINCIPAL SCIENTIST

Drug Metabolism

You will have overall responsibility for providing analytical support for clinical drug metabolism studies as well as ensuring the rapid development and validation of analytical methods in the Department of Drug Metabolism and Pharmacokinetics and at contract research organizations. Methods will include GLC, HPLC, GCMS and LC-MS.

To qualify, you will need a PhD and a minimum of 8 years of laboratory and managerial experience in drug metabolism and biochemical research. A thorough knowledge of modern analytical instrumentation, proven supervisory ability and strong oral/written communication skills are essential; a solid background in drug metabolism research, especially as it pertains to the support of clinical programs, is important.

We offer an excellent compensation package including a competitive salary and comprehensive benefits. For prompt, confidential consideration, we invite you to forward a resume with salary requirements to: Human Resources Manager-KB, Box DS-94-07, Schering-Plough Research Institute, 2015 Galloping Hill Road, Kenilworth, NJ 07033-0539. We are an equal opportunity employer. We regret we are unable to respond to each resume. Only those selected for an interview will be contacted.

Using Science For Human Advantage

ZymoGenetics

is dedicated to the treatment and prevention of human illness through discovery, development, production and clinical evaluation of novel therapeutic agents. ZymoGenetics is a subsidiary of NOVO NORDISK A/S, the world's largest manufacturer of insulin. ZymoGenetics offers an exciting environment characteristic of a small research and development company, along with the scope and stability of a large pharmaceutical corporation.

Currently, ZymoGenetics is seeking candidates for the following positions in development:

Senior Scientist/Scientist

(2 Positions)

Process Development/Cell Biology - We are seeking Ph.D. Scientists to become members of the team developing processes for the production of biological therapeutics from mammalian cells. At least 3 years' experience with mammalian cell production of biological therapeutics in a GMP environment is required. Level of position will be based on experience. REF#31N494

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