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ASSISTANT PROFESSOR—BIOLOGY

Tenure-track Assistant Professorship available September 1, 1993. Individuals with demonstrated ability and sincere interest in teaching undergraduate microbiology, as well as general biology to majors and non-majors, are encouraged to apply for the position. Salary is competitive. Starting Date: September 1, 1993. Application Deadline: Review of applications will begin received and continue until the position is filled. Apply to: Send letter of application, résumé and the names and telephone numbers of at least three references to:

Biological Diversity Search Committee
Potsdam College
Potsdam, NY 13676

State University of New York is an Equal Opportunity/Affirmative Action Employer.

MOLECULAR AND CELL BIOLOGY
UNIVERSITY OF CALIFORNIA, BERKELEY

The Department of Molecular and Cell Biology invites applications for a tenure-track ASSISTANT PROFESSOR position, with appointment beginning July 1, 1993. Candidates should have demonstrated excellence, originality, and potential for research in molecular and cellular biology and should have a strong interest in undergraduate and graduate teaching. Preference will be given to candidates carrying out NMR or computational studies of macromolecular interactions and/or protein folding. Applications should include a cover letter, detailed curriculum vitae, an up-to-date list of all publications, and at least three of their most significant papers, a brief statement (1 to 2 pages maximum) of research objectives and teaching interests, and three letters of evaluation from three individuals who are most familiar with the candidate's accomplishments and potential. The closing date for acceptance of applications is January 15, 1993. Send applications to: Structural Biology Research Committee, Department of Molecular Cell Biology, MCB Department, 410 Barker Hall, University of California, Berkeley, CA 94720. EARLY APPLICATIONS ARE ENCOURAGED TO BE RECEIVED. The University of California is an Affirmative Action/Equal Employment Oppor-
tunity Employer. Women and members of underrepresented minorities are especially encouraged to apply.

TWO TENURE-TRACK ASSISTANT PROFESSOR POSITIONS IN DEVELOPMENTAL NEUROSCIENCE
Department of Anatomy
University of Utah School of Medicine

Applicants must have a Ph.D., M.D., or equivalent degree, postdoctoral research experience, and the ability to develop strong student research programs. Applicants with demonstrated research expertise in any aspect of nervous system development will be considered. A strong commitment to both teaching and research is also required. Preference in teaching in a medical school basic science curriculum is preferred. These positions will not require teaching of human (gross) anatomy. Applicants should send curriculum vitae (including a bibliography and list of grant support), a statement of research interests, and the names and addresses of three references.

Send applications to: T. N. Parks, Chair, Department of Anatomy, University of Utah School of Medicine, Salt Lake City, UT 84132. Deadline for applications and nominations is February 1, 1993 or until suitable candidates are identified. The University of Utah is an Affirmative Action/Equal Opportunity Employer.

The Life Science Department at New Mexico Highlands University invites applications for three tenure-track positions in biology. These positions are Tunis-ASSISTANT PROFESSOR in the areas of animal physiology—heath science; microbiology; and electron microscopy—genetics, effective August 16, 1993. Responsible for teaching and development in the undergraduate and graduate life science curricula, including subject area–related courses in biology and environmental science, teaching and/or supervised training of M.S. students expected. Closing date January 12, 1993 or until filled. Submit letter of application indicating which position you are applying, a résumé and official transcripts and a list of three references with telephone numbers to: Biology Search Committee, Department of Science and Engineering, New Mexico Highlands University, Las Vegas, NM 87701. New Mexico Highlands University is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR—Chemistry, Rice University. (Tenure-track.) Imaginative and energetic candidates are sought in any area of "physical" chemistry. Innovative research programs in fields which complement those in the department are particularly emphasized. The position begins Fall 1993. Salary is competitive. Applications are invited from persons who can attract external funding and who plan to develop a strong research program. Applicants should send a letter of application, curriculum vitae, and three letters of reference to: Chemistry Department, Rice University, P.O. Box 1910, Houston, TX 77251-1910. Rice University is an Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST: Molecular Systematics or Molecular Developmental Biology. Western Carolina University (WCU) invites applications for an ASSISTANT PROFESSOR tenure-track position in Biology. Applicants must have a commitment to teaching excellence and be willing to teach introductory biology, botany, and specialty courses at undergraduate and Master's levels. They should be able to develop externally funded research and promote student involvement. Ph.D. required. Send résumé, three letters of reference, transcripts, a statement of teaching philosophy, and research goals by January 20, 1993, to: Dan Pittillo, Department of Biology, Western Carolina University, Cullowhee, NC 28723. WCU is an Equal Opportunity/Affirmative Action Employer.

BIOLOGIST. Wabash College, a private liberal arts college for men, invites applications for a Byron K. Trippe ASSISTANT PROFESSOR position to begin July 1, 1993. Ph.D. required. This position is tenure-track in accordance with College guidelines and review procedures, and carries with it external and research support funds for the first two years of the appointment. Responsibilities include teaching developmental biology, comparative vertebrate anatomy and embryology, participating in a team-taught introductory course and directing undergraduate research projects. Excellent facilities for research are available. Wabash College is committed to a diversity of faculty and excellence in teaching. We are eager to receive applications from a broad spectrum of individuals and especially from women and members of minorities. Applicants should submit curriculum vitae, three letters of recommendation and a statement of teaching and research interests to: Austrian Brooks, Department of Biology, Wabash College, Crawfordsville, IN 47933 by January 15, 1993. Equal Opportunity Employer.

MOLECULAR BIOLOGIST: ASSISTANT PROFESSOR

The Department of Biological Sciences at Wright State University invites applications for a tenure-track Assistant Professor position in molecular biology. Applicants must hold a Ph.D. and postdoctoral research experience in the application of modern recombinant DNA methods to the study of significant problems in either microbial or eukaryotic genetics. Teaching will include an undergraduate molecular-oriented genetics course. The successful candidate will be expected to develop a fundable research program in molecular genetics and to participate in the departmental M.S. degree program and the interdisciplinary Biomedical Sciences Ph.D. program. Applicants should send curriculum vitae, statements of teaching philosophy and research goals, and the names and addresses of at least three referees to: Molecular Biologist Search Committee, Department of Biological Sciences, Wright State University, Dayton, OH 45435. We will begin reviewing applications on January 1, 1993. Wright State University is an Equal Opportunity/Affirmative Action Employer. We encourage women and minorities to apply.

ASSISTANT PROFESSOR

The Department of Biology invites applications for a tenure-track position in molecular biology beginning Fall 1993. A Ph.D. is required. The candidate is expected to teach in the areas of cellular and molecular biology, plant development and/or related areas of competence, and establish an independent research program involving undergraduate and M.S.-level students. Submit a resume by February 15, 1993. Submit a letter of interest by January 31, 1993, to: Dr. Klaus Brach, Chair, Department of Biology, California State University, 5500 University Parkway, San Bernadino, CA 92407. FAX: 909-880-7005. An Equal Opportunity/Affirmative Action/Section 504, Title IX Employer.
ASSISTANT PROFESSOR OF BIOLOGY

The Department of Biology at the State University of New York at Geneseo invites applications for a tenure-track assistant professor position in Animal Physiology with a specialization in, e.g., neurophysiology or endocrinology.

Successful candidates will be expected to:
1) teach a comparative animal physiology course, lecture and laboratory;
2) develop an active research program involving under-graduate and graduate students;
3) advise students and participate in general department administration.

The department has responsibility for nearly 60 majors in Biology, Biochemistry, and Medical Technology. The successful candidate will complement thirteen other faculty members with diverse specialties in zoology, behavioral ecology, physiological plant ecology, developmental biology, cell ultrastructure, systems of parasitic helminthes, aquatic invertebrate biology, algal genetics, molecular biology, immunology, plant biology, forest ecology, and microbial ecology.

All applicants must have a Doctor of Philosophy degree in biology or related field and postdoctoral experience. Applicants must have satisfactory publications, graduate transcripts, and three letters of recommendation should be sent by 18 January 1993 to: Dr. Edwin J. Spicka, Biology Department, 1 College Circle, Geneseo, N. Y. 14454. (716) 245-5007. The State University of New York is an Affirmative Action/Equal Opportunity Employer. Minorities and women are strongly urged to apply.

ASSISTANT PROFESSOR.
The Center for Pharmaceutical Biotechnology invites applications for assistant professor in either protein/genetic engineering or in pharmaceutical biotechnology product formulation, with application to pharmacological design or development, available September, 1993. Ph.D. and postdoctoral experience. Responsibilities include developing a strong, externally funded research program, and teaching in the graduate and professional programs. The Center for Pharmaceutical Biotechnology environment fosters collaboration and cooperation, bringing together campus researchers from the full range of biotechnology-related disciplines. In addition to appointment within the Center, the successful candidate will have a tenure-track appointment within a College of Pharmacy basic science department. For full consideration, curriculum vitae, description of research interests, and three letters of reference should be forwarded by 29 January 1993 to: Dr. Michael E. Johnson, Interim Director, Center for Pharmaceutical Biotechnology (m/c 874), University of Illinois at Urbana-Champaign, 1310 Health Science Drive, Urbana, IL 61801-0080. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

VERTEBRATE FIELD ECOLOGIST, ASSISTANT PROFESSOR.
Tenure-track position begins August 22, 1993. Mammalogist or herpetologist preferred. Teach comparative anatomy, general zoology, science and teaching methods in zoology, ecology, and vertebral biology for non-majors. Doctoral degree and teaching experience in biological sciences required. Send letter of application, curriculum vitae, all graduate undergraduate transcripts, and three letters of recommendation by January 15, 1993, to: Lance Urven, Biology Department, University of Wisconsin-Whitewater, Whitewater, WI 53190. Applications by women and minority candidates are especially encouraged. Non-residents may be made public unless applicant makes written request otherwise. UW-W is an Affirmative Action/Equal Opportunity Employer.

ASSISTANT PROFESSOR.
EASTERN VIRGINIA MEDICAL SCHOOL

The Department of Radiation Oncology & Biophysics invites applications for a tenure-track faculty position from individuals with research interests in the general area of radiation oncology, including cancer biology, molecular and biochemical oncology, and radiation biology. The successful candidate will be expected to extend an existing program relevant to human tumor markers. Applications should have a Ph.D. or equivalent degree. Applications must include a curriculum vitae, description of research interests, and names of three references to: James Shaeffer, Ph.D., Department of Radiation Oncology, Eastern Virginia Medical School, P.O. Box 808, Norfolk, VA 23501. An Equal Opportunity/Affirmative Action Employer.

PLANT BIOLOGIST.
Saint Joseph's University, a four-year liberal arts Jesuit University invites applications for a tenure-track ASSISTANT PROFESSOR position beginning August 1993. Ph.D. Required. The successful candidate will teach a majors course in plant biology. Preference will be given to candidates with expertise in light and electron microscopy, and an interest in field work. A postdoctoral fellowship is expected. Please send curriculum vitae, unclassified copies of all manuscripts, statement on teaching and research interests, three letters of reference, and names of two references to: Dr. James Watrous, Chairman, Biology Department, Saint Joseph's University, 5600 City Avenue, Philadelphia, PA 19131. Review of applications begins December 1, 1992. Equal Opportunity/Affirmative Action Employer.

Two tenure-track ASSISTANT PROFESSORS to begin Fall 1993. (1) ENVIRONMENTAL STUDIES/ECONOMICS. Specialist in environmental economics for joint position in Economics and Environmental Science Departments. Candidate must have a broad interest in economics and a background in a natural science. (2) ENVIRONMENTAL STUDIES/COMPARATIVE POLITICAL SCIENCE. Candidate with an interdisciplinary background to focus on issues of environmental quality and policy. Further information from: Barbara S. Scott, 509-388-2888. Washington State University is an Equal Opportunity/Affirmative Action Teacher and Employer.

ENVIRONMENTAL AND AGRICHEMICAL EDUCATION SPECIALIST, Washington State University, Tri-Cities Campus, Richland, Washington. A 12-month, tenure-track, ASSISTANT PROFESSOR rank position. Responsibilities include developing a joint position in Environmental and Agrochemical Education with agricultural and home economics and teaching courses to undergraduate students. Salary and other benefits are competitive, and a vigorous research program is expected. Send letter of interest, vitae, and three letters of recommendation to: Dr. Robert W. Smith, Chair, Department of Environmental Science, ES Search Committee, Box 140, Pullman, WA 99163. Applications are due by January 1, 1993. Equal Opportunity Employer.

GENETICS/MICROBIOLOGY—ASSISTANT PROFESSOR.
Fall 1993, renewable. Ph.D. in either genetics or microbiology required. Opportunity to work with hands-on laboratory work. Write for job description before February 19, 1993 to: Dr. Frank A. James, Dean, LaGrange College, LaGrange, GA 30240. Equal Opportunity Employer.

FACULTY POSITIONS
Department of Biological Chemistry
Penn State University College of Medicine

Applications are invited for two tenure-track positions to begin on or after June 1, 1993. We seek individuals who have a Ph.D. or equivalent degree in biological chemistry, molecular or developmental biochemistry. Preference will be given to applicants at the ASSISTANT PROFESSOR level. Ph.D. candidates at all the COLLEGE PROFESSOR level will be considered. Applicants must hold a Ph.D. and/or M.D. degree and have postdoctoral research experience. Successful applicants are expected to develop, externally funded research program and to participate in the education of graduate and medical students. Applicants should have a record of publication in areas related to research interests. Please send curriculum vitae, a statement of research plans, and the names and addresses of three individuals who will provide letters of reference to: Chair, Search Committee, Department of Biological Chemistry, Box 8505, Penn State University, Hershey, PA 17033. Applications should be submitted by January 31, 1993. Penn State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

ASSISTANT PROFESSORS
The Division of Cardiology in the Department of Medicine is seeking applications to fill a position as an Assistant Professor. Ph.D. and/or M.D. degrees with three years of postdoctoral training are required. Candidates who wish to develop an independent career in cellular, biological or molecular investigation of cardiac function or transmembrane signaling are particularly encouraged to apply. Successful applicants will join an active molecular and cellular cardiology research program in the Department. Opportunities for teaching and/or clinical duties are present. Salary and startup funds are competitive, and excellent facilities are available. Applicants should submit curriculum vitae and a brief statement of research plans, and request that three letters of reference be sent to: James Marsh, Head of Research, Division of Cardiology, Department of Medicine, Wayne State University School of Medicine, 421 East Canfield, 1107 Eillman Research Building, Detroit, MI 48201. Wayne State University is an Affirmative Action/Equal Opportunity Employer.

TWO TENURE-TRACK POSITIONS IN PHYSICAL OCEANOGRAPHY
UNIVERSITY OF WASHINGTON

The School of Oceanography, University of Washington, invites applications for two tenure-track positions in Physical Oceanography at the ASSISTANT PROFESSOR level.

The School is interested in theoreticians, numerical modelers, and seagoing experimentalists. The area of specialization may lie in physical oceanography or geophysical fluid dynamics, and the emphasis is in numerical simulation and global climate change.

Women and minority candidates are particularly encouraged to apply. Applicants should include curriculum vitae, a current research statement, a list of major published research papers, and the names of four people whom we may contact for letters of reference. Preprints and reprints may be included. The deadline for application is 15 January 1993. Apply to:

Professor Arthur Nowell, Director School of Oceanography, WB-10 University of Washington, Seattle, WA 98195 USA

The University of Washington is an Equal Opportunity/Affirmative Action Employer.
Listed below are a few of the excellent opportunities for conducting research that are now available with leading scientists at the National Institutes of Health.

**Mammary Gland Biology**
Richard P. DiAugustine, PhD

The regulation of mammary gland growth and differentiation is being investigated with special emphasis on endocrine and organ factors that may influence breast cancer risk. Studies focus on identification of local growth factor or signalling pathways that mediate the activity of ovarian steroids and the functional properties of the EGF family of polypeptides synthesized by the mammary gland. Experience in biochemistry, molecular biology or endocrinology is preferred. Some technical assistance will be provided. Laboratory of Biochemical Risk Analysis (OE-24), NIEHS, P.O. Box 12233, Building 101, Room D425, Research Triangle Park, NC 27709.

**Mechanisms of Gene Regulation**
Vera M. Nikodem, PhD

Two positions are available to investigate the molecular basis of the mechanisms involved in hormonal and developmental control of gene expression. Transacting factors of the steroid/thyroid hormone receptor gene superfamilies are being characterized and the evolutionary significance and role of this family of receptors is being studied. Future studies will use homologous recombination to target genes of regulatory nuclear proteins. Genetics and Biochemistry Branch (OE-24), NIDDK, Building 10, Room 8N317.

**Molecular Biology**
A.J. Fornace, Jr., MD, PhD

Growth control genes are activated by genotoxic stress, such as DNA damage, and the role of the p53 tumor suppressor and other factors in the activation of cell-cycle checkpoints in mammalian cells, is being studied. Related stress responses in both cellular and viral (HIV-1) genes may be investigated. Experience in molecular biology is required. U.S. applicants must have less than five years and foreign applicants must have less than three years of postdoctoral experience. Laboratory of Molecular Pharmacology (OE-24), NCI, Building 37, Room 5C09.

**Molecular Genetics**
Vilhelm Bohr, MD, PhD

The fine structure of DNA repair is studied with a focus on gene-specific DNA repair, its molecular biology and enzymology, and the biological significance and biological consequences of efficient repair at this level. Studies utilize mammalian cells, cells from cancer and aging prone human diseases, and cells transfected with repair genes and constructs. Laboratory of Molecular Genetics (OE-24), NIA, Gerontology Research Center, 4940 Eastern Avenue, Baltimore, MD 21224.

**Structural Biology**
James H. Hurley, PhD

Positions are available to investigate the structural basis for the regulation of protein kinases involved in calcium- and growth factor-dependent signal transduction. Studies utilize x-ray crystallography to determine and compare the three-dimensional structures of protein kinases in active and inactive states. Previous experience with protein expression, purification, or crystallography is preferred. Laboratory of Molecular Biology (OE-24), NIDDK, Building 2, Room 312.

**Tumor Biology**
Snorri S. Thorgeirsson, MD, PhD

The cellular and molecular biology of a stem cell compartment, and the role of these cells in neoplastic development in murine and non-human primate liver, are being studied. Previous experience in protein and nucleic acid biochemistry, cell biology, and tumor biology is required. Laboratory of Experimental Carcinogenesis (OE-24), NCI, Building 37, Room 3C28.

**Additional Postdoctoral Fellowship Opportunities**

For an on-line listing of additional postdoctoral openings you may access the NIH EDNET Bulletin Board's POSTDOC conference via modem (1,3014922221 or 1,8003582221). The settings for modem access are "7,Even,". When connected to NIH, type in "vr100" at the connect message, "F5E" at initial, and "AJL1" at account.

Those interested in receiving information on other postdoctoral opportunities in NIH research laboratories, as well as information on clinical training opportunities, may contact the Office of Education, Building 10, Room 1C129. Phone: 301-496-2427.

**To Apply**

If you hold a PhD, MD, or equivalent degree and would like to be considered for one of these positions, please send a cover letter, *curriculum vitae*, bibliography, and statement of research interests to the address listed with each position. In addition, please arrange to have letters of recommendation sent from three scientists who can provide an evaluation of your qualifications.
**POSITIONS OPEN**

**AQUATIC ECOLOGIST/TOXICOLOGIST: ASSISTANT PROFESSOR.** The Department of Biological Sciences at Wright State University in Dayton, Ohio invites applications for a tenure-track Assistant Professor position. Candidate's research should address the effects of contaminants (natural or xenobiotic) on molecular, cellular, population, and/or community systems, with a strong emphasis on ecological outcomes and organismal responses. A Ph.D. and postdoctoral experience, and will be expected to establish an externally funded research program. Teaching duties will include an introductory biology course, and an upper-level aquatic biology course. Candidates should have a Ph.D. in marine, ecological, or evolutionary biology, and a strong publication record. Successful candidates will be expected to contribute to graduate and undergraduate education through teaching, research, and student advisement, and to develop externally funded research programs. The positions receive 75% of annual salary support from the State. The appointment will be at the Marine Science Institute in Port Aransas. Send curriculum vitae, statement of research and teaching interests, and names of three references by January 22, 1993, to: Search Committee Chairman, The University of Texas Marine Science Institute, P.O. Box 1267, Port Aransas, TX 78373. The University of Texas at Austin is an Equal Opportunity/Affirmative Action Employer.

**GROSS ANATOMIST.** Department of Surgery, University of California, San Diego (UCSD): Tenure-track ASSISTANT PROFESSOR position open to teach gross anatomy at the UCSD School of Medicine beginning July 1, 1993. This is mainly a teaching and research position, with some administrative responsibilities. It requires interest and ability to teach in the Medical School Core Gross Anatomy course and to offer and participate in elective teaching. A Ph.D. in the other health professions or Ph.D. in the biological sciences is preferred. Salary will be commensurate with experience and rank. The University of California is an Equal Opportunity/Affirmative Action Employer. Closing date February 28, 1993.

**POSITIONS OPEN**

**ASSISTANT PROFESSOR, MOLECULAR BIOLOGY: Tenure-track position, Fall 1993 at John Carroll University, a Catholic and Jesuit comprehensive university, offering B.S., M.S. and M.A. degrees. Candidate should be an accomplished investigator in developmental biology, genetics, molecular genetics, their specialty and have experience in DNA molecular methods. Area of expertise is open, but experimental experience in molecular systematics, developmental biology, gene expression, or plant molecular genetics. Primary responsibility is teaching; academic counseling and research activity are expected. Submit a letter of application, curriculum vitae, statements of teaching and research interests, start-up costs, and three letters of recommendation by January 15, 1993, to: Dr. John E. Skoff, Department of Biology, John Carroll University, University Heights, OH 44118. An Equal Opportunity/Affirmative Action Employer; women and minorities especially encouraged to apply.

**RESEARCH ASSISTANT PROFESSOR OF UROLOGY.** The Department of Urology at the Case Western Reserve University School of Medicine seeks applications for a tenure-track position in urology. Individuals with expertise in prostate-related research are preferred. The successful candidate should have an M.D. or equivalent degree with experience in basic science and fundamental knowledge in cell and molecular biology. Experience in molecular genetics and cell biology is essential. The successful candidate will have access to the Department of Urology's research facilities, including laboratories equipped for use in cell biology, and a highly selective medical student rotation program. This is an opportunity for a candidate with a Ph.D. to establish a research program and to teach and advise medical students. The position is open pending recommendation by the University and subject to administrative approval. Applications should include a curriculum vitae, a statement of research experience, and a description of any ongoing and proposed research. Please submit three letters of recommendation to: Dr. Robert A. Scott, Department of Urology, Case Western Reserve University Medical Center, 2074 Abington Road, Cleveland, OH 44106. The University is an Equal Opportunity/Affirmative Action Employer.

**ASSISTANT PROFESSOR, MOLECULAR BIOLOGY/ANATOMY: Tenure-track position, Fall 1993 at Washington University, St. Louis. The Department of Anatomy and Neurobiology is seeking a candidate with research interests in developmental and structural neurobiology. The successful candidate will have a strong background in molecular biology or developmental biology, with a demonstrated interest in neurobiology. Applications should include a curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. Mark T. Schambelan, Department of Anatomy and Neurobiology, Washington University School of Medicine, 660 South Euclid Avenue, St. Louis, MO 63110. Washington University is an Equal Opportunity/Affirmative Action Employer.

**PHARMACOLOGY FACULTY POSITION.** New York Medical College (NYMC) invites applications for tenure-track ASSISTANT or ASSOCIATE PROFESSOR level. Candidates should have a Ph.D. or M.D. degree and at least two years of postdoctoral experience with strong commitments to molecular pharmacology and neuropharmacology. The successful candidate will be expected to establish an independent research program. Applications should include a letter of application, curriculum vitae, statement of research interests, and three letters of recommendation to: Dr. John C. McGill, Professor and Chairman, Department of Pharmacology, New York Medical College, Valhalla, NY 10595. NYMC is an Equal Opportunity/Affirmative Action Employer.

**POSITIONS OPEN**

**Yale Department of Internal Medicine is seeking a Ph.D. or MD at the ASSISTANT PROFESSOR level to develop an independent research program investigating social and behavioral influences on clinical and biological determinants of disease. The research program should emphasize substantive areas of AIDS, women's health and other general medical problems. Interested applicants should send a letter of application with curriculum vitae and three letters of recommendation to: Ralph Horwitz, M.D., Chief, General Medicine, Yale School of Medicine, P.O. Box 3338, New Haven, CT 06520. Yale is an Affirmative Action/Equal Opportunity Employer. Women and members of minority groups are encouraged to apply.

**TERRESTRIAL ECOLOGIST.** The School of Forestry and Wood Products seeks applications for a nine-month (60% teaching, 40% research), tenure-track faculty position emphasizing ecosystem-based natural resource management. The position will be filled at the ASSISTANT, ASSOCIATE or FULL PROFESSOR level, depending on the qualifications of the individual. We seek those with expertise in ecological processes at the landscape level and in interdisciplinary approaches. The successful candidate will be responsible for developing an applied ecology undergraduate course, teach at least one undergraduate course in applied ecology plus a graduate-level course in her/his specialty. The candidate will work with an interdisciplinary faculty and contribute to the University's mission of preparing M.S./Ph.D. students. Qualifications include Ph.D. in ecology, one degree in natural resource management, experience in applied ecology and accomplishments. Send curriculum vitae, names of five references (with addresses and telephone numbers), and a graduate and undergraduate transcripts to: Applied Ecology Search Committee, School of Forestry and Wood Products, 1400 Townsend Drive, Michigan Technological University, Houghton, MI 49931. Applications will be accepted until January 15, 1993, or until an acceptable candidate is found.

**Women and minority candidates are encouraged to apply.** Michigan Technological University is an Equal Opportunity, Educational Institution/Equal Opportunity/Affirmative Action Employer.

**WHOLE-PLANT PHYSIOLOGIST.** Harvard University The Department of Organismic and Evolutionary Biology at Harvard University invites applications for an ASSISTANT or ASSOCIATE PROFESSORSHIP in the field of plant physiology seeking a candidate who utilizes physiological, cellular and/or molecular techniques in the study of whole plant physiology. The candidate will be expected to work and interact with undergraduate and graduate students.

Applicants should send curriculum vitae, statement of research interests, representative reprints, and arrange for three letters of recommendation to be sent to: Professor F. A. Bazzaz, Department of Organismic and Evolutionary Biology, The Biological Laboratories, 16 Divinity Avenue, Cambridge, MA 02138. Harvard University is an Equal Opportunity/Affirmative Action Employer. We encourage applications from women and minority groups.

**FACULTY POSITION.** The Department of Anatomy and Cell Biology invites applications for a tenure-track, full-time faculty position at the level of ASSISTANT/ASSOCIATE PROFESSOR. The incumbent's research program should utilize cellular and/or molecular approaches and add to the existing strengths of the Department in the neurosciences, vision sciences and developmental biology. The successful candidate will be expected to establish an independently funded research program. Participation in the medical gross anatomy and graduate student program is expected. Excellent start-up funds and facilities are available. Candidates should submit curriculum vitae, statement of research interests and the names of three references to: Dr. R. Skoff, Professor and Chairman of Search Committee, Department of Anatomy and Cell Biology, Wayne State University, 440 East Canfield, Detroit, MI 48201. Wayne State University is an Equal Opportunity/Affirmative Action Employer.
Pfizer, a U.S.-based multinational pharmaceutical company, has earned its reputation as a leader in the industry through its continuing commitment to keeping its pharmaceutical research at the forefront of biomedical science and therapeutic innovation. Consider these exciting research opportunities in the Molecular Genetics and Protein Chemistry Department, located at our Central Research Laboratories in Groton, Connecticut.

**Molecular Biologists – BS/MS Scientists**

**Gene Discovery**—We are seeking BS or MS level candidates with demonstrated experience in molecular biology and recombinant DNA techniques to participate in all aspects of identifying new targets for drug discovery research. A background in gene cloning, library screening, DNA sequencing and computer sequence analysis, and expression of cDNA sequences is highly desirable.

**Transgenic Technology**—In recognition of the important role transgenic animals play in modeling a variety of human diseases, we are expanding our transgenic animal group. We are seeking individuals with a BS or MS and a minimum of 2 years laboratory expertise in the generation of transgenic animals by pronuclear microinjection and/or embryonic stem cells.

**Protein Structure/Function**—We are seeking BS or MS level candidates with a degree in Biochemistry or a related field to assist in the application of new and emerging technologies in protein chemistry. The successful candidates should have 2+ years experience with molecular biology, assembly of DNA constructs, and site-directed mutagenesis. Familiarity with recovery and purification of recombinant DNA-derived proteins and biophysical methods for protein structural analysis is desirable.

In addition to a stimulating research environment, we offer a competitive compensation and benefits package, including generous relocation assistance to this southeastern Connecticut shoreline community. Qualified applicants may send a resume, description of research experience, and names of three references to: Mr. Kym Goddu, Personnel Associate, Employee Resources Department, Pfizer Inc, Central Research Division, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.
An introduction to the basic concepts and practical applications of light microscopy. Students will have opportunities for extensive hands-on experience with state of the art optical, video and digital image processing and recording equipment guided by experienced academic and commercial staff. Lectures and laboratory exercises will include: Geometrical and wave optics of image formation and microscope alignment, generating image contrast by various optical methods including phase contrast, reflection interference contrast, polarization and differential interference contrast, fluorescence microscopy and fluorescent molecular probes, principles of video imaging and contrast enhancement by analog and digital image processing, introduction to quantitative fluorescent microscopy and applications to digital imaging microscopy to ratio measurements of calcium or other ions in cells, fluorescence in situ hybridization (FISH), and introduction to confocal light microscopy methods. Students are encouraged to bring their own specimens for analysis. Tuition is $850.00. Deadline February 11, 1993.

Instructors:
Edward Salmon, Ph.D., Brian Herman, Ph.D., John Lemasters, M.D./Ph.D., UNC-CH

**IN VITRO MUTAGENESIS**
June 6–June 18, 1993

This course features the use of randomly mutagenized oligonucleotides to produce “complete” mutant libraries. Streamlined DNA sequencing methods necessary for the execution of saturation mutagenesis projects will also be emphasized. Participants interested in bringing materials related to their own research interests should consult the instructors in advance. Tuition is $2,150. Deadline April 5, 1993.

Instructors:
Daniel Loeb, Ph.D., Univ. of Wisconsin, Clyde Hutchison, Ph.D., UNC-CH

**TRANSCRIPTION**
July 18–July 31, 1993

Students will be introduced to mammalian and invertebrate transcription systems. Specific techniques include: nuclear run-on analysis, preparation of transcription extracts, DNA footprinting and mobility shifts, and in vitro RNA processing. Tuition is $2,150. Deadline-May 17, 1993.

Instructors:
William Merzoff, Ph.D., UNC-CH, Jane Azizkhan, Ph.D., UNC-CH, Ryszard Kole, Ph.D., UNC-CH, David H. Price, Ph.D., University of Iowa

**CAROLINA WORKSHOPS** are a series of intensive hands-on laboratory courses designed to teach cutting edge methods. The microscope workshop will cover both basic concepts of light microscopy as well as an introduction to the most recent advanced techniques. The molecular biology workshops will include basic manipulations such as isolation of insert and vector DNA, ligations, electrophoretic analysis and elution from gels, blotting techniques, preparation and labeling of probes, identification of cloned DNA, and protein purification in addition to training in a specialized topic.

Many applicants to the Carolina Workshops already hold the M.D. or Ph.D. degree. Our courses are heavy on hands-on contact with the protocols, light on lectures concerning the basics. Applicants unfamiliar with the theoretical bases of molecular biology may profit from reading a text such as Principles of Gene Manipulation (Fourth Edition) by R.W. Old & S. B. Primrose, Blackwell Scientific Publications, 1983. Experience with running these courses for ten years now indicates that both students with and without hands-on experience with molecular techniques find these courses useful. Experienced students benefit from in-depth interaction with the instructors; novices learn the realities behind the innocent looking protocols.

To apply, send a curriculum vitae and a brief letter describing your research interests and their relevance to the Workshop for which you apply. Applicants should contact the program office as soon as possible. Please indicate your complete mailing address and telephone/fax number. Full consideration will be given to applications received by the indicated deadlines.

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**CELLULAR PHYSIOLOGIST**

Glaxo Inc., one of the largest pharmaceutical companies in the world, has an established record of developing the highest quality prescription medicines for unmet patient needs. Located in Research Triangle Park, NC, the new Glaxo Research Institute is a premier facility which provides a stimulating environment for scientists working in all aspects of discovery and development.

Successful candidate will join our multidisciplinary team of scientists dedicated to the discovery of novel approaches for the treatment of diabetes, with special emphasis on the regulation of insulin secretion. The successful candidate will have made significant contributions to our understanding of key steps in the excitation-secretion coupling pathway, including second messenger or intracellular regulation, as it relates to normal or aberrant islet function.

We seek an energetic investigator who possesses a Ph.D. in Physiology, Biochemistry, Biophysics, or a related discipline, with previous research experience in cellular endocrinology with emphasis on signal transduction.

Join Glaxo and enjoy an excellent salary, flexible benefits, an on-site fitness center, a spirit of enthusiasm and teamwork and outstanding opportunities for career satisfaction. Equally appealing is our world famous scientific, industrial and academic community in Research Triangle Park, NC. Send your resume, WHICH MUST INCLUDE POSITION TITLE and salary history, to: Human Resources Department, Job # 91158009-SC, Glaxo Inc., P.O. Box 13398, Research Triangle Park, NC 27709. (No Phone Calls or Agency Referrals, Please.) An Equal Opportunity Employer M/F/D/V.

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**BIOCHEMISTRY AND MICROBIOLOGY**
**UNIVERSITY OF VICTORIA**
**VICTORIA, BRITISH COLUMBIA**
**CANADA**

The Department of Biochemistry and Microbiology invites applications for a full-time, tenure-track appointment at the Assistant Professor level in an area of Immunology/Virology/Biochemistry/Microbiology. Exceptional candidates in other research areas are invited to apply. The successful candidate will be expected to teach in our broadly based undergraduate program and to establish a vigorous independent research program.

Our Department consists of 12 full-time faculty members with strong research programs in molecular aspects of Biochemistry and Microbiology. Current departmental enrollment is 200 undergraduate majors, 13 M.S. students and 15 Ph.D. students.

The deadline for application is January 31, 1993. Applicants should send their curriculum vitae, together with copies of recent publications, a short description of future research interests, and the names and addresses of three referees to:
Dr. Rozanne Poulson
Faculty Search Committee
Department of Biochemistry and Microbiology
University of Victoria
P.O. Box 9055, Petch Building
Victoria, British Columbia V8W 3P6
Canada

Applicants are advised to ask their referees to send confidential reports directly to the Department without waiting to be contacted.

The appointment will be made in accordance with Canadian Immigration requirements. Priority will be given to Canadian citizens and permanent residents of Canada. The University of Victoria is an employment equity employer and encourages applications from women, persons with disabilities, visible minorities, and aboriginal persons.
Marine Scientist

The Alabama Marine Environmental Sciences Consortium (MESC) announces the availability of a position for a Marine Scientist at the Assistant/Associate Professor level to complement a growing program in estuarine/shelf processes. We are seeking candidates who can interact and collaborate with a diverse faculty of twelve ecologists and oceanographers. Research interests could include organism/sediment interactions, food web structure and trophic dynamics, or invertebrate larval transport and settlement.

Successful applicants are expected to develop a vigorous research program and must have demonstrated potential to attract extramural funding. Teaching responsibilities normally include two courses per year (on the quarter system). Courses are taught year round, with a summer program of nearly 100 undergraduate and graduate students in residence. Graduate student advisement is strongly encouraged and may be facilitated by joint appointment at an MESC member university. Such an appointment is negotiated through the MESC administration. Salary is for 10 months and is competitive.

The MESC is an independent agency of Alabama higher education, with 21 member schools from around the state. It is housed at the Dauphin Island Sea Lab, a 36-acre campus located on Dauphin Island, 35 miles south of Mobile, Alabama. The Sea Lab, located at the confluence of Mobile Bay and the Gulf of Mexico, includes offices, laboratories, library, dormitories and cafeteria facilities. Support facilities include: the 65' R/V A.E. Vernil, the 42' R/V Deborah D. and numerous smaller vessels, and a 15,000 gallon recirculating seawater system and wet lab.

Applications including c.v. and a statement of research and teaching interests, along with names and addresses of three references, should be sent to:

Marine Scientist Search Committee
Marine Environmental Sciences Consortium
P.O. Box 369
Dauphin Island, AL 36528
(205) 861-2141

Applications must be post marked by February 5, 1993, with an anticipated, but negotiable, starting date of September, 1993. The Marine Environmental Sciences Consortium is an equal opportunity/ affirmative action employer. The Marine Environmental Sciences Consortium does not discriminate on the basis of race, religion, color, sex, age, national origin or physical ability.

Wyeth-Ayerst Laboratories is a Division of Fortune 100 American Home Products Corporation, a leading manufacturer and marketer of health care products with multi-billion dollar annual sales and an impressive record of growth and profitability.

As a GLOBAL research-based pharmaceutical company, we are committed to helping people lead healthier lives through innovative pharmaceutical and nutritional products. It is from this commitment and position of strength that we move forward with a major expansion of our research and development activities.

PRINCIPAL SCIENTIST
Clinical Support

Participate in development of new antibacterials. Perform research to define in vitro and in vivo competitive advantages of new antibacterials. Ph.D. in Microbiology with experience in general and clinical microbiology and general and microbial biochemistry required. Background in immunological and molecular biological techniques and models of infectious disease desirable with a minimum of five years related laboratory experience.

Senior Molecular Biologists
Senior Microbiologists
Senior Biologists

Participate in the development of new vaccines/antibacterials against microbial diseases and of new models for such diseases. Ideal candidates will have solid experience in basic techniques used in microbiology/bacteriology, immunology, virology, tissue culture, or molecular biology. These positions require a B.S./M.S. in the appropriate scientific discipline (Molecular Biology, Biology, Immunology, Microbiology, Biochemistry) with 4-5 years related laboratory experience. Experience with monoclonal antibody production or in vivo models of microbial diseases preferred for some positions.

Wyeth-Ayerst offers an attractive salary, comprehensive benefits package and opportunities for advancement for the right candidate. For immediate consideration, forward your resume and salary history/requirements to: Wyeth-Ayerst Research Personnel, Dept. SG, P.O. Box 8299, Philadelphia, PA 19101-0082. Equal Opportunity Employer, M/F/D/V responses encouraged.
BEHAVIORAL PHYSIOLOGIST

Applications are invited for a tenure-track position in behavioral physiology at the ASSOCIATE PROFESSOR level. We are especially interested in candidates who work at the organizational level with vertebrates. The successful candidate will coordinate existing programs in sensory biology, behavior, and evolution. Successful candidates would be expected to contribute to undergraduate and graduate instruction and to establish independent research programs. Competitive salary, facilities, and start-up funds are available. Submit curriculum vitae, statement of research interests, reprints of three to five papers, and at least three letters of reference by January 15, 1993, to: Behavioral Physiology Search Committee, T.H. Morgan School of Biological Sciences 101, Ithaca College, University of Kentucky, Lexington, KY 40506-0225.

An Equal Opportunity/Affirmative Action Employer.

MOLECULAR BIOLOGIST

The Department of Otolaryngology at the University of Pittsburgh School of Medicine is accepting applications for a full-time molecular biologist at the ASSOCIATE PROFESSOR level to begin on July 1, 1993. This appointment is on a tenure track with secondary appointment in the Department of Molecular Genetics and Biochemistry. The salary range is $55,000 to $75,000 per year plus fringe benefits. This faculty appointment is aimed at establishing a leader in scientific investigation aimed at establishing the genetic basis for the development of head and neck carcinoma. The candidate will participate in faculty teaching obligations and interact with other scientists in the Pittsburgh Cancer Institute community while establishing a solid base of research. The minimal objective qualifications include a Doctorate of Science degree with significant experience in molecular biology. It is desirable that the candidate have some extramural funding. Qualified applicants should send current curriculum vitae with a letter of interest to: Jonas T. Johnson, M.D., Department of Otolaryngology, University of Pittsburgh School of Medicine, Eye & Ear Institute, 203 Lothrop Street, Suite 500, Pittsburgh, PA 15213; Telephone: (412) 647-2130. In order to ensure full consideration, application materials must be received by February 1, 1993. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK POSITIONS
ASSOCIATE OR ASSOCIATE PROFESSOR OF PHYSIOLOGY

The University of Tennessee, Memphis, Department of Physiology and Biophysics has tenure-track positions at the rank of Associate Professor. Candidates should have a Ph.D. or M.D. degree, a good track record in publications, and postdoctoral research experience with a background in cellular and/or molecular biology. The successful candidate is expected to develop a research program in the areas of cardiovascular, gastrointestinal, developmental, endocrine or epithelial physiology and to engage in teaching activities of the department. Interested applicants are encouraged to send curriculum vitae, copies of at least three representative publications and the names of three to five references to: Dr. Leonard R. Johnson, The Thomas A. Gerwin Professor and Chairman, Department of Physiology and Biophysics, 894 Union Avenue, Memphis, TN 38163.

ANIMAL DEVELOPMENTAL BIOLOGIST

Ph.D. ASSISTANT/ASSOCIATE PROFESSOR. Teach and direct undergraduate research in developmental biology, have education to teach cell biology and contribute to curriculum development. Competitive salary and start-up facilities available. Submit curriculum vitae and three letters of reference by January 18, 1993 to: R. Weksler, University of Minnesota, Institute for Molecular Biology, 953 Denny Road, Ithaca, NY 14850-7728. Ithaca College is an Affirmative Action/Equal Opportunity Employer.

ANIMAL ECOLOGY/BEHAVIOR

Harvard University

The Department of Organismic and Evolutionary Biology at Harvard University invites applications for an ASSISTANT or ASSOCIATE PROFESSORSHIP in the general fields of animal ecology or behavioral biology. We encourage applications from a broad range of subdisciplines, including empirical and theoretical approaches to behavior, behavioral ecology, population biology, and applied ecology. Applicants should have a strong background in molecular, genetic, and population biology. Include a C.V., statement of research interests, and three letters of recommendation. Submit applications before February 15, 1993 to: M. Mohler, 22 Divinity Avenue, Cambridge, MA 02138.

An Equal Opportunity/Affirmative Action Employer.

AMERICAN MUSEUM OF NATURAL HISTORY

CURATORIAL POSITION IN MAMMALOGY

AMERICAN MUSEUM OF NATURAL HISTORY

The Department of Mammalogy invites applications for a tenure-track curatorial position to be available 1 September 1993. Rank and salary shall be determined based on the candidate's experience. The successful applicant will be expected to pursue independent research in systematic mammalogy based on active field-work, use of the Museum's collections, resources, and on such other laboratory and analytic approaches in which he or she may be competent. (These approaches may include, but are not restricted to, cytological, biochemical, or morphological analyses.) The candidate will be expected to teach and interact with undergraduate and graduate students. Applications must be received by January 15, 1993, curriculum vitae, statement of research interests, and the names, addresses, and telephone numbers of at least three referees. Applications and nominations should be submitted by 2 February 1993 to: Dr. G. Musser, Chairman of Department of Mammalogy, American Museum of Natural History, Central Park West at 79th Street, New York, NY 10024, U.S.A. An Equal Opportunity Employer.

BIOREMEDIATION MICROBIOLOGIST

Applications for a TENURE-TRACK FACULTY position to begin in Fall 1993 are invited. A Ph.D. degree and continuing research experience in any area of microbiology is required. The successful candidate will be expected to teach in the department's developing biotechnology program and continue independent research in a sub-discipline of bioremediation. A commitment to excellence in teaching is essential. Funding for this position is contingent on expected budgetary approval. Applications, including curriculum vitae, statement of research interests, and three letters of recommendation by January 15, 1993 to: Dr. Baller, Chairman, Bioremediation Search Committee, Department of Biology, George Mason University, Fairfax, VA 22033-4444 ARE ENCOURAGED.

The University of South Dakota School of Medicine is an Equal Opportunity/Affirmative Action Institution.

DIRECTOR BIOENGINEERING

UNIVERSITY OF ARIZONA

CONTINUATION OF SEARCH

The University of Arizona invites applications and nominations for the position of Director of the Biotechnology Division. Researchers from the Colleges of Agriculture, Arts and Sciences, Engineering and Mines, Medical Sciences, and the College of Medicine in Arizona have combined their efforts to develop a University-wide Biotechnology program. The program has nine support facilities staffed by 20 professional and technical personnel with an annual operating budget of more than $1.5 million. The program is intended to provide interdisciplinary support and training to researchers at the state's universities, the state's industry, and the state's National Laboratories.

We seek an individual with an outstanding record of accomplishment in Biotechnology in her/his research program who also possesses the orientation to provide service and support for researchers in the broad field of biotechnology, as well as the skills, vision, and scientific and educational accomplishments and interests necessary to provide scientific and academic leadership in the field. It is expected that the selected candidate will possess the outstanding academic credentials consistent with an appointment in an appropriate academic department. Qualified candidates are expected to demonstrate a current and comprehensive curriculum vitae (including list of publications); a statement of their views, recommendations, and future goals for the University; and the names, addresses, and telephone numbers of at least three references to: Biotechnology Search Committee, 225 Life Sciences, University of Arizona, Tucson, AZ 85721. All applicants must be received by January 15, 1993 or until the position is filled.

The national search which is not limited to candidates at the University of Arizona. BALLER IS AN Equal Opportunity/Affirmative Action Employer. Minorities and women are especially encouraged to apply.

CHAIR, DEPARTMENT OF MICROBIOLOGY

The University of South Dakota School of Medicine invites nominations and applications for the position of Chair of the Department of Microbiology. Candidates with a Ph.D. or M.D. degree and research experience in any area of microbiology or immunology are encouraged to apply. The successful candidate must have demonstrated leadership capabilities, a distinguished research record, and a genuine commitment to excellence in medical and graduate education. Initial review of applications will begin January 15, 1993, and will continue until the position is filled. Applications from qualified women and minorities are particularly encouraged. Candidates must submit a letter of application, curriculum vitae, statement of research interests, and names of at least three references. Interested candidates may apply to: Dr. D. Chair, Department of Microbiology Search Committee, 4000 South Dakota School of Medicine, Vermillion, SD 57069. The University of South Dakota is an Affirmative Action/Equal Opportunity Employer.
FACULTY POSITIONS IN MOLECULAR GENETICS
COLLEGE OF MEDICINE - UNIVERSITY OF FLORIDA

The Center for Mammalian Genetics in the College of Medicine at the University of Florida invites applications for tenure track positions at the level of Assistant Professor. The Center will fill 5 faculty positions in the general field of mammalian molecular genetics over the next 4 years. Successful applicants will join a group of 17 faculty with interests in the areas of human, mouse and yeast genetics. Applicants with interests in the areas of human genetics, developmental genetics, gene therapy, neurogenetics, and immunogenetics are especially sought, although outstanding candidates with research interests in any area of molecular genetics are urged to apply. The Center is housed in the recently opened Academic Research Building and offers excellent laboratory facilities, competitive salaries, and attractive start-up packages for highly qualified candidates. Extensive interactions with faculty in various departments within the College of Medicine are available and the Center provides outstanding core facilities for supporting states of the art research in molecular genetics. Faculty appointments will be in a department appropriate to the candidates' expertise and interests.

Candidates should have received a Ph.D. and/or M.D. degree and should have strong research training including postdoctoral experience in the field of molecular and mammalian genetics. Applicants should provide a curriculum vitae, a description of research experience and interests, and three letters of reference sent to Dr. Edward K. Wakefield, Director, Center for Mammalian Genetics, Office of the Dean, College of Medicine, University of Florida, Gainesville, FL 32610-0215. Deadline for completed applications is February 1, 1989.

The University of Florida is an Equal Opportunity/ Affirmative Action Employer and specifically invites and encourages applications from qualified women and minorities.

RESEARCH OPPORTUNITIES
MINERALS R&D

RESEARCH MICROBIOLOGIST: Senior technical scientist on research team investigating fundamental and applied aspects of minerals bioprocessing. Plans and implements laboratory studies on bioleaching of ores and bioflocculation of fine mineral suspensions; leads and coordinates activities of subrante staff; publishes results in peer reviewed journals; formulates research proposals. The ideal candidate will have demonstrated significant scientific accomplishment in minerals or metals biotechnology, or related disciplines such as environmental or soils microbiology, Ph.D. preferred. Starting salary range $32,423 to $46,210. Duties and salary commensurate with qualifications and experience.

RESEARCH CHEMIST/BIOCHEMIST: Project chemist on minerals bioprocessing research team. Ideal candidate will have knowledge of biological processes and inorganic chemistry. HPLC experience helpful. Minimum requirements: B.S./B.A. degree plus two years professional experience or graduate education. Starting salary range $26,798 to $32,423. Duties and salary commensurate with qualifications and experience.

INORGANIC CHEMISTS, CHEMICAL/METALLURGICAL ENGINEERS: Both entry and advanced positions are available to conduct research on a variety of minerals processing and environmentally related problems.


UNITED STATES BUREAU OF MINES

CHALLENGING RESEARCH OPPORTUNITIES

LIGAND Pharmaceuticals is a rapidly expanding drug discovery company which seeks to identify, develop and commercialize novel drugs which modulate the action of hormones and related regulatory molecules within the body. You can be part of a team which discovers drugs for treatment of cancer and a variety of dermatological, cardiovascular and inflammatory diseases. Ligand employs state-of-the-art drug design techniques, classical pharmacology, and cutting-edge molecular biology in an integrated approach to drug discovery. Currently, we are seeking the following individuals.

New Leads Discovery: Senior Research Manager with Ph.D in Biochemical Pharmacology or Cell Biology and 2-8 years of postdoctoral experience. Successful candidate will be responsible for developing new assays, as well as supervising 4-8 BS/MS-level staff members. Experience in in high throughput drug screening/assay development and cell biology is strongly preferred. Dept. 760/AN.

Molecular Modeler with Ph.D in Chemistry or related discipline and 1-3 years' experience in correlating molecular structure and function of small organic molecules. Knowledge of the full range of molecular modeling techniques is essential, industrial experience is desired. The successful candidate will work closely with interdisciplinary scientific teams to aid in the design of novel drug candidates. Dept. 760/AN.

PhD Chemists with 1-3 years' industrial experience in organic synthesis, bio-organic or medicinal chemistry and an aptitude for the design and synthesis of biologically active molecules. Creativity, a commitment to excellence and the desire to work in a multidisciplinary environment are essential qualities for these positions. Dept. 760/AN.

BS and MS Chemists with 1-2 years' industrial experience in organic synthesis, natural products isolation, or related areas, and experience in chromatographic and spectroscopic techniques (HPLC, NMR). The successful candidate will work with a team of Chemists and will be responsible for the synthesis, isolation, and structure elucidation of novel organic compounds for biological evaluation. Dept. 760/AN.

Senior Research Pharmacologists with Ph.Ds in either Pharmacology or Toxicology, with 2-4 years of experience studying the absorption, distribution, metabolism, and excretion of xenobiotics. The successful candidate will become part of a multidisciplinary research team, dedicated to the discovery of novel therapeutic agents. A knowledge of the toxicology and regulatory requirements necessary to characterize novel agents for clinical evaluation is necessary. Dept. 740/EU.

Research Associates with BS and/or MS degrees in Pharmacology, Biochemistry, Physiology, or Biology with 1-2 years' experience in a laboratory setting. Research Associates will work with a Senior Scientist and be involved in conducting pharmacology and/or drug metabolism studies. The successful candidates will have a desire to work as a member of a research team, and to provide intellectual input into experimental design and data interpretation. Dept. 740/EU.

Ligand provides an exciting intellectual environment with modern research facilities. We offer competitive salaries commensurate with your experience and education, a comprehensive benefits package, equity participation, and ample opportunities to have scientific impact. For confidential consideration, please submit your resume or CV referencing the department number to: LIGAND Pharmaceuticals, Director of Human Resources, 9393 Towne Centre Drive, San Diego, CA 92121. EOE.
ENIRONMENTAL SCIENCE

The Environmental Science Group at the University of San Francisco invites applications for a tenure-track position in Environmental Science at the Associate or Full Professor level anticipated to begin in the Fall of 1993. The appointment will be in the Biology, Chemistry, or Physics Departments with primary teaching responsibilities in Environmental Science.

Program. The interdisciplinary Environmental Science Group includes full-time faculty from several different departments, and part-time faculty from federal, state, and local agencies as well as private industry. The Group administers programs leading to a bachelor of science degree in Environmental Science, and a master's degree in Environmental Management.

Teaching Responsibilities include undergraduate courses in Environmental Science as well as one or more of the following graduate level courses in the Environmental Management program: Environmental engineering, toxicology, risk assessment, pollution ecology, air resource monitoring, hazardous waste management, and other areas of professional interest.

Qualifications. University teaching experience, evidence of scholarship, an earned doctorate, experience in environmental management (preferably in industry or government), and an understanding of and commitment to support the mission of the University are required. The successful candidate is expected to play a major role in coordinating, as well as teaching in the master's program in Environmental Management. The faculty member will be expected to develop an independent and ongoing research program.

We particularly encourage minority women applicants for all positions. The University of San Francisco is an Equal Opportunity and Affirmative Action Employer.

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:

Environmental Science Search Committee
c/o R. James Brown
Chair, Environmental Science Group
University of San Francisco
2130 Fulton Street
San Francisco, CA 94117-1080

Consideration of applications will begin on November 30, 1992 and will continue until the position has been filled.

Established as San Francisco's first institution of higher learning in 1855, the University of San Francisco is a private, Church and Jesuit institution with an enrollment of 7,300 students. The University's principal mission is the liberal education of students in the arts and sciences, as well as the preparation of professionals for education, nursing, business, and law.

Department of Biochemistry
Faculty of Science
Kuwait University

The Department of Biochemistry invites applicants to fill posts in the following specialties:

Molecular Biochemistry
Physical Biochemistry
Clinical Biochemistry

Applicants should currently hold the rank of Associate Professor (Senior Lecturer). Applications and Conditions of Service may be obtained from:

Kuwait University Office
3500 International Drive NW
Washington, DC 20008
Tel: 202-363-8055

Completed applications must be returned directly to:

Head of the Department
Biochemistry Department
Faculty of Science
Kuwait University
P.O. Box 5969
13060 Safat
KUWAIT

BE A SCIENCE JOURNALIST FOR A SUMMER!

The American Association for the Advancement of Science (AAAS) invites students in the natural and social sciences and engineering to apply for the 1993 Mass Media Science and Engineering Fellows Program.

Fellows work as reporters, researchers and production assistants for 10 weeks during the summer at newspapers, magazines, and radio and television stations nationwide. A weekly $400 stipend is awarded plus travel expenses paid. For information and application write:

Mass Media Science and Engineering Fellows Program
AAAS
1333 H Street, NW
Room 1134
Washington, DC 20005

Application deadline: January 15, 1993

Chair, Department of Immunology

Research Institute of The Cleveland Clinic Foundation

We are seeking a Chair for the newly reconstituted Department of Immunology. The Research Institute has a long standing commitment to excellence in basic and applied biomedical research with an annual budget in excess of $50 million. The establishment and expansion of this department recognizes the Clinic's traditional excellence in transplantation, tumor immunology and rheumatology, and its commitment to the study of immunologically based diseases and basic immune mechanisms. The present department consists of nine scientists with active research programs in regulation of T-cell function, or monocyte/macrophage mediated inflammation. We are seeking candidates with outstanding national reputations as molecular or cellular immunologists with the vision and energy to recruit other talented scientists to build a world class program. The Chair will be provided with generous space and start-up support including substantial endowment funds.

Salary and fringe benefits are highly competitive. A curriculum vitae and names and addresses of three references should be sent to Dr. Bryan R.G. Williams, Search Committee for the Chair of Immunology, Cleveland Clinic Research Institute, NN1-06, 9500 Euclid Avenue, Cleveland, Ohio 44195.

THE CLEVELAND CLINIC FOUNDATION
An Equal Opportunity Employer M/F/D/V
Smoke Free Environment
**PRE- AND POSTDOCTORAL POSITIONS IN CELLULAR AND MOLECULAR ASPECTS OF ENVIRONMENTAL PATHOLOGY**

The Environmental Pathology Training Program at the University of Vermont is an NIH-funded, multidisciplinary program focused on the molecular biology, biochemistry and cell biology of environmental pathology. Pre- and postdoctoral positions are available to U.S. citizens. In addition to a basic research experience, trainees have numerous educational opportunities through course work and a seminar series. Faculty include:


Postdoctoral candidates should have an MD, DVM or PhD degree and a desire to develop a career integrating molecular and cellular studies while exploring the challenge the environment places on living systems. The University of Vermont invites and encourages applications from women and members of minority groups. Send curriculum vitae and references to: Joanne Teel, MD, University of Vermont, Department of Pathology, Burlington, Vermont 05405. The University of Vermont is an Affirmative Action/Equal Opportunity Employer.

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"People come here seeking challenge. We don't disappoint them."

Ciba Corning is a young company with a history of achievement. Today, as a wholly-owned subsidiary of CIBA, we have become a world leader in the development and manufacture of medical diagnostic instrumentation for the healthcare industry. A customer-driven technologically strong, quality-conscious organization, our growth has been the result of our ability to see beyond what is, to what is possible. And at Ciba Corning, the possibilities are unlimited.

### Suburban Boston Opportunities

These positions are located at our expanding, state-of-the-art Research and Product Development facility in Walpole, MA, a Boston suburb. Here, you will work with the most advanced tools and technologies and interact with a world class team of technical peers.

#### Immunoassay Development Scientists

**Endocrinology, Therapeutic Drugs and Infectious Disease**

Functioning as a project leader, your background must reflect strong technical knowledge in immunoassay development. Excellent experimental design, statistical analysis and computer skills are required. Supervisory experience is desired. Requirements include: a Ph.D. and 0-2 years, an M.S. and 4-7 years, or a B.S. and 8-11 years of relevant experience. Please respond to Job Code LM026.

#### Immunoassay Development Associate Scientist

**Endocrinology**

To succeed in this position, you will need strong technical knowledge in immunoassay development combined with experimental design, statistical analysis and computer skills. Supervisory experience desired. Requirements include an M.S. and 2-4 years, or a B.S. and 5-8 years of relevant experience. Please respond to Job Code LW045.

#### Ciba Corning offers a competitive salary and benefits package which reflects our corporate commitment to the quality of life as well as work. For confidential consideration, please send resume to the appropriate Job Code, Human Resources Department, Ciba Corning Diagnostics Corp., 63 North Street, Medfield, MA 02052.

No telephone calls, please. Principals.

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**BIOELECTRONICS**

**TECHNOCHEM**

Consorzio di Ricerca Industriale Avanzata Via Roma, 28 I-57030 MARCINC (LI) ITALIA

Tel +39(565)591062 - Fax +39(565)901283

The industrial consortium on bioelectronics research Technobiochip has several openings in its laboratories in Marciana, Italy, on the Island of Elba. Scientists are sought for in the following fields:

- Thin films of biopolimers (deposition and characterization)
- Biosensors
- Atomic microscopy of biopolimers

The ideal candidate holds a PhD and/or has experience in the relevant fields. He/She should send his/her detailed resume and a statement on his/her research interests.
SULTAN QABOS UNIVERSITY
SULTANATE OF OMAN

College of Agriculture

Sultan Qaboos University, the National University of the Sultanate of Oman, has a vacancy for HEAD, DEPARTMENT OF FISHERIES SCIENCE AND TECHNOLOGY (FSTG).

The right candidate should have an earned Doctorate and a distinguished record of teaching and research, communicate with the rank of Professor and must be fluent in English with a proven ability in the language of instruction. Experience in fishery science or technology (preferably in the tropics) is especially desired to complement the interests of existing faculty in the Department of Fisheries Science. This is a senior-level position and the starting date is January 1993, with possibility of earlier appointment.

Sultan Qaboos University offers, apart from a very attractive tax-free salary, suitable housing, utility allowance, health care, 60 days of paid vacation per year with round trip air tickets, education allowance for children, etc.

Interested candidates are requested to address inquiries and letters of application, including names and addresses of at least three references to:

Professor Francis J. Maroussy, Dean, College of Agriculture, Sultan Qaboos University, P.O. Box 32484, Al-Khod, Sultanate of Oman

MCGAW CHAIR IN SCIENCE

St. Andrews College is seeking applications for an endowed Chair in Science. Disciplinary competence in either Molecular Genetics/Biochemistry or Analytical/Bioinorganic Chemistry is preferred. St. Andrews is an innovative liberal arts college with a nationally recognized interdisciplinary core curriculum and a lab science program structured around a "no-walls," integrated laboratory facility where science students have their own personal spaces available for both course work and independent research. We are seeking a dedicated teacher/scholar, with interdisciplinary interests, who is committed to excellence in science education; has designed and implemented successful programs involving undergraduates; is familiar with the appropriate use of microcomputers in science education; can enthusiastically communicate scientific concepts to non-scientists (student, colleague, and general public); and can join in science colleagues in articulating the role of science, both historically and in current public policy choices, to students in our core curriculum. Appointment may be at the Associate or Full Professor level. Inquiries should be directed to: Dr. Dennis McCracken, 277-8211. Applicants should submit curriculum vitae, statement of teaching and research interests, and names of three references to: McGaw Science Center, St. Andrews, Presbytferian College, 1700 Dogwood Mile, Laurinburg, NC 28352-5598 no later than January 11, 1993. St. Andrews is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities, including individuals with disabilities, are especially encouraged to apply.

CHAIRPERSON
DEPARTMENT OF MICROBIOLOGY,
MOLLUCAL GENETICS AND IMMUNOLOGY

The University of Kansas School of Medicine invites applications and nominations for the Chair of the Department of Microbiology, Molecular Genetics, and Immunology. Candidates must have a Ph.D. or M.D., with an outstanding record of research accomplishments, commitment to excellence in graduate and medical student teaching, the capability to offer scientific leadership to a diverse department covering the broad discipline of Microbiology and the commitment to lead the department to further prominence. This recruitment is occurring simultaneously with the construction of a new research facility.

Curriculum vitae of applicants and four names of references should be forwarded to: S. K. Day, Ph.D., Chair, Search Committee; c/o Executive Dean's Office; University of Kansas School of Medicine; 3901 Rainbow Boulevard, Room 121, Boulder, Colorado 80303. Review of applications will begin January 15, 1993, and will continue until the position is filled. The University of Kansas Medical Center is an Equal Opportunity/Affirmative Action Employer.

EXECUTIVE OFFICER. The Barnett Institute of Chemical Analysis at Northeastern University (NU) has an immediate opening for a scientist with strong administrative skills to participate in the development of rapidly growing graduate research and education programs in日后al Analytical and Instrumental Spectroscopy. The successful candidate will oversee the development, and serve as executive director, of the Institute's Center for Analytical Sciences. The Center is planned to be a forum for interactions between academic molecular scientists and their counterparts in industry. Candidates should have a Ph.D. in chemistry or a closely related biomedical science and at least two years of postdoctoral or industrial experience. Applications and three letters of reference should be sent to: Professor Thomas R. Gilbert, Barnett Institute of Chemical Analysis and Material Science, 341 Mugar Hall, Northeastern University, Boston, MA 02115. NU is an Equal Opportunity/Affirmative Action Employer.

ANNOUNCEMENT OF SEARCH FOR COMPREHENSIVE SICKLE CELL CENTER DIRECTOR

University of South Alabama, College of Medicine

The University of South Alabama, College of Medicine, in Mobile, Alabama announces a search for the DIRECTOR of the University's Comprehensive Sickle Cell Center. The position was funded in 1988 with a budget of $4.8 million by the National Institutes of Health (NIH) for an additional five years extending to 1998. Candidates must hold an M.D. or Ph.D. degree and have the training and experience to provide stability and direction for the Center. The Director must be an established leader, with at least three years experience in directing, a faculty member with relevant interests, a strong record of research experience in sickle cell disease, and a strong record of accomplishment in the area of sickle cell disease. Candidates must have held a leadership position in sickle cell disease research for at least five years, in an academic or US government setting, and have the demonstrated ability to lead and manage the research and related activities of the Center. The successful candidate should have a demonstrated ability to foster excellence in both medical and graduate education. The successful candidate must have held a leadership position in sickle cell disease research for at least five years. The University of Alabama is an Equal Opportunity/Affirmative Action Employer.

ENVIROMENTAL PROJECT DIRECTOR.

McNeese State University invites applications for the position of Project Director for the Spill Remediation Research and Technology (SPERRAT) Contract conducted jointly with McNeese State University and St. Andrews Presbyterian College, 1700 Dogwood Mile, Laurinburg, NC 28352-5598 no later than January 11, 1993. St. Andrews is an Equal Opportunity/Affirmative Action Employer. Women and underrepresented minorities, including individuals with disabilities, are especially encouraged to apply.

EXECUTIVE DIRECTOR
WILLAPA ALLIANCE

Position available immediately for senior staff person of Willapa Alliance. Willapa Alliance is an environmental organization dedicated to restoring Willapa Bay, a World Heritage Site.

Qualifications: Significant experience in effective management, community organization and communication skills. Good listener and sensitive to needs of community and have demonstrated organizational leadership capability.

Send resume to:
Spencer B. Beebe, President
Ecortrust, 1200 NW Front, #470
Portland, OR 97209

and
Ellio Marks
The Nature Conservancy
217 Pine Street, Suite 1101
Seattle, WA 98101

CHAIRPERSON
DEPARTMENT OF PHYSIOLOGY

The University of Kansas Medical Center seeks an outstanding scientist to provide leadership and direction for the Department of Physiology and to direct an innovative program in physiological sciences. Successful applicants will be expected to develop a strong program of research along with the training and development of graduate students and junior scientists; then the chair of the newly combined department. Candidates must have a Ph.D. in the pharmacological/biomedical sciences, acquisition of graduate and professional programs, and a proven record of research, demonstration of administrative skills and an ability to lead. The department offers M.S. degrees in all disciplines and Ph.D. in Pharmacology and Pharmacetics with research emphasis in drug delivery systems, pharmacokinetics, cardiovascular and neuropharmacology, and molecular mechanisms of aging and disease. The position is available June 1, 1993. Application screening will begin in early 1993 and continue until the individual is identified. Send applications containing curriculum vitae and three references to: T. L. Lenks, Chair Search Committee, College of Pharmacy, University of Houston, Houston, TX 77204-8511. Equal Opportunity/Affirmative Action Employer.

FACULTY FOR EUROPE AND ASIA

The University of Maryland anticipates openings for faculty to teach undergraduate science courses on U.S. military bases overseas. Requirements include the Ph.D. or two master's degrees, recent college teaching experience, U.S. citizenship, and competence to teach in two of the following fields: astronomy, chemistry, computer studies, geology, mathematics, and physics. Renewable annual appointments begin August 1993. Interested applicants should send curriculum vitae and three references to: Dr. R. E. Miller, University of Maryland College Park, MD 20742-1642. Affirmative Action/Equal Opportunity Employer.

1890

SCIENCE * VOL. 258 * 4 DECEMBER 1992
The National Institute of Dental Research (NIDR) invites nominations and applications for the position of Director, Intramural Research Program (IRP), National Institute of Dental Research. The incumbent of this position will direct a program of laboratory and clinical research through eight laboratories and branches with 226 employees and approximately 100 non-ceiling personnel, and an annual budget of approximately $22 million dollars. She serves as principal advisor to the Institute Director on scientific affairs involving all Institute direct research programs; develops and recommends policies for the execution of research programs; determines effectiveness of current programs; and recommends and develops new and revised programs to meet national oral and dental health needs.

This is a Civil Service position in the Senior Executive Service. The salary range is ES-1 to ES-6, currently $90,000 to $112,000 per annum. The person selected may be eligible for Physicians Comparability pay up to $20,000 per year. A recruitment bonus of up to 25% of base pay may be available to a non-Federal selected for this position, subject to individual approval. A relocation bonus of up to 25% of base pay may be available to a permanent Federal employee who must relocate to accept this position, subject to individual approval. A one-year probationary period must be served by the individual selected if not currently in the Senior Executive Service.

Applicants must meet the minimum educational requirements (or possess equivalent combination of experience and training) for Dental Officer, GS-680: Medical Officer, GS-602; other biomedical sciences (GS-400 group, GS-1300 group), as defined by the U.S. Office of Personnel Management Handbook X-118, Qualification Standards for Positions Under the General Schedule, which is available in Federal Personnel Offices and Federal Job Information Centers.

Further information about the position and qualification requirements may be obtained by contacting Ms. Judith T. Dulovich, (301)486-6971. An Application for Federal Employment (SF-171), accompanied by a current curriculum vitae and bibliography, should be submitted to:

Ms. Judith T. Dulovich
Personnel Management Specialist
National Institute of Dental Research
National Institutes of Health
9000 Rockville Pike
Bldg. 31, Room 2C-23
Bethesda, MD 20892

APPLICATIONS MUST BE RECEIVED BY JANUARY 15, 1993.

SELECTION FOR THIS POSITION WILL BE BASED SOLELY ON MERIT, WITH NO DISCRIMINATION FOR NON-MERIT REASONS SUCH AS RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN, POLITICS, MARITAL STATUS, PHYSICAL OR MENTAL HANDICAP AGE, OR MEMBERSHIP OR NON-Membership IN AN EMPLOYEE ORGANIZATION.

NIH is an Equal Opportunity Employer.
MARSHALL UNIVERSITY

POSTDOCTORAL POSITION

Postdoctoral position is available to elucidate the structure of a DNA binding protein involved in DNA transcription. Applicant should have experience in high-field NMR, preferably with proteins. Please send resume, brief description of research experience, and names of referees to: Dr. Laurence H. Hurley, The Drug Dynamics Institute, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712.

TWO POSTDOCTORAL POSITIONS—HUMAN MOLECULAR GENETICS


Molecular Biology/Developmental Biology

A postdoctoral position is available to study regulation of expression of calcium channels. We are exploring this using molecular, immunological and patch-clamping approaches. The position requires strong experience in immunohistochemistry and is required in immunohistochemistry. Excellent research experience is a major consideration. A statement of research interest, curriculum vitae, and three letters of reference to: Dr. D. Marsh, Division of Cancer Research, University of California, San Francisco, CA 94143. A competitive salary is available.

Marshall University School of Medicine is seeking applications and nominations for the position of CHAIRPERSON, DEPARTMENT OF MICROBIOLOGY. Position available July 1, 1993. Candidates should have leadership skills, a strong track record of teaching and research experience in medical student and biomedical graduate student education (M.S. and Ph.D.). Candidates must be able to demonstrate a background of research and teaching in molecular and cellular biology including mechanisms of cell membrane structure and function. Candidates should have a Ph.D. degree and must have demonstrated the ability to serve in the capacities of Associate Professor or Professor. Completed application packet should include letter of interest, explanation of research goals and interests, current curriculum vitae and names and addresses of three references. Applications should be sent to: Carl Gruetter, Ph.D., Microbiology Search Committee, Marshall University School of Medicine, 1542 Spring Valley Drive, Huntington, WV 25704.

Molecular Biology/Director of Cancer Research

The Department of Pharmacology of the University of Connecticut School of Medicine has available a state-funded tenure-track faculty position. We seek an individual with the required knowledge and skills to be the Associate Director for Research of the Connecticut Cancer Institute. The Cancer Institute's mission encompasses the prevention, early detection, and treatment of cancer. The research activities of the Institute will be closely linked to the expanding programs in genetics and developmental biology. Areas include cancer, molecular biology, and the John Dempsey Hospital's bone marrow transplant unit. Candidates must have a Ph.D. and/or M.D. degree with extramurally supported independent research in some area of cancer research, or in some closely related area of molecular biology. Applicants should send curriculum vitae, a statement of research interest, reprints of three to five of their most representative papers, and names of at least three references to: Dr. Maurice B. Feinstein, Department of Pharmacology, School of Medicine, University of Connecticut Health Center, Farmington, CT 06030. The University of Connecticut is an Equal Opportunity/Affirmative Action Employer. Closing date is January 31, 1993.

Tenure-Track Appointment, Vascular Biology

The Department of Radiology at the University of Pennsylvania School of Medicine has a tenure-track position effective March 1993. Candidates with a Ph.D. and an interest in the biology of vascular cells will be considered. The position will involve interaction with clinicians concerned with restenosis after angioplasty, permanent and temporary vascular stenting, vascular growth and remodeling. The candidate will join a large research department with areas of interest in cardiovascular imaging, magnetic resonance imaging, and interventional radiology. Successful candidates will be expected to establish an extramurally funded research program. Academic rank and salary will be commensurate with experience. Interested parties should forward curriculum vitae and summary of research interests to: Michael J. Pentecont, M.D., Department of Radiology, Hospital of the University of Pennsylvania, 3400 Spruce Street, Philadelphia, PA 19104. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.
STANFORD UNIVERSITY
CENTER FOR MATERIALS RESEARCH (CMR)
RESEARCH ASSOCIATE

Stanford University is seeking a person with the following qualifications to manage the Chemical Analysis Facilities in the Center for Materials Research, which administers Stanford's National Science Foundation Materials Research Laboratory (NSF-MRL) Program:

Minimum of three years experience beyond Ph.D. degree in a relevant area of science or engineering, such as, but not limited to, chemistry, physics, geology, geophysics, materials science, ceramic engineering, and electrical engineering. Must have an understanding of both surface analytical and electron microprobe equipment and techniques. Expertise in one of these areas is required; expertise in both areas is preferred. Must have knowledge of relevant software and the ability to do programming. Must have excellent interpersonal skills, with the ability to interact successfully with faculty, staff and students. It is required that this person be self-motivated and have excellent organizational skills, as well as a strong commitment to do research, preferably with members of the Stanford community.

It is expected that the manager carry out independent or collaborative research, preferably with the members of the Stanford Community. It is also expected that the manager interact with faculty and users at Stanford, and supervisors of other surface analytical labs to ensure that the Chemical Characterization Facilities at Stanford remain competitive with other U.S. facilities. Training responsibilities, which include teaching one formal graduate level class, as well as service and consultation work, will be required. The manager must be able to analyze samples that are very complex in nature.

This position reports directly to the Technical Director and will be responsible for providing the users of the laboratories with a state-of-the-art chemical characterization facility. Technical support will be provided to assist the manager in providing the level of maintenance, service, training and performance expected of this facility. (EOE/AA)

Application deadline is December 18, 1992.

Send cover letter and resume to:
K. Sands
CMR, McCullough Building 111
Stanford University
Stanford, CA 94305-4045

WOMEN IN SCIENCE
March 13 Reprint

This first-time special section, reprinted from the March 13 issue of Science, takes an in-depth look at women in science.

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At Gilead Sciences, we have a novel approach to the discovery of human therapeutics through our pioneering work in nucleotide-based technology. We are developing a broad new class of potential pharmaceutical products—disease-fighting drugs that target cancer, cardiovascular disease, and viral infections. For Scientists, our exciting R&D environment and current drug discovery programs represent the opportunity to make a significant contribution.

RESEARCH SCIENTISTS

CHEMISTRY

The successful candidates should possess a Ph.D. in organic or medicinal chemistry and 0-5 years of postdoctoral training or industrial experience. This challenging position will require expertise in the design, synthesis, purification and characterization of potential therapeutic agents. Excellent oral and written communication skills and ability to work in a team environment are required.

RESEARCH SCIENTIST

DRUG DELIVERY/METABOLISM

In this position, you'll conduct research in the area of drug delivery and metabolism of nucleotide-based therapeutics to aid in the selection of drug molecules for development. Responsibilities will include development and application of analytical methods in support of in vitro and in vivo models designed to characterize transport and degradation of novel drug molecules. The candidate should have a Ph.D. in analytical chemistry, biochemistry or a related area and 2-4 years' experience in bioanalytical method development in the pharmaceutical industry. The successful candidate will have a strong background in creative troubleshooting and HPLC method development, and excellent communication skills. Experience in the determination of drugs in biological fluids is essential.

As an emerging force in the pharmaceutical industry, Gilead provides a comprehensive compensation and benefits package, which reflects our leadership and commitment to our science. If you enjoy a team-oriented environment and would like to make an impact in the development of a new class of human therapeutics, please send your CV to: Human Resources, Gilead Sciences, 346 Lakeside Drive, Foster City, CA 94404. An equal opportunity employer.

GILEAD SCIENCES

ACCEPTING APPLICATIONS FOR...

BIOSPHERIAN CANDIDATES

Space Biospheres Ventures (SBV) is accepting applications for Biospherian Candidates for a one year Mission in Biosphere 2.

Biosphere 2 is the world’s largest closed ecological life system capable of sustaining eight humans with all air, water, waste, and food recycled. Six months of training will be required and about three months debriefing after the Mission.

SBV is especially interested in receiving applications from professionals established in their fields or individuals working on graduate and postgraduate degrees in any of these or related research areas. Experience in field research projects is highly desirable. Applicants need to have both theoretical and practical expertise in at least one of the following areas:

- Ecology/Botany
- Agriculture
- Communications
- Marine Biology
- Medical
- Mechanical/Technical Operations
- Computer/Instrumentation
- Analytics

Please submit your C.V., photo, essay, outline of past and future research interests, plus two recommendations to:

SPACE BIOSPHERES VENTURES
Mission Control • P.O. Box 689 • Oracle, AZ 85623

Implementation Director

Project 2061 is the American Association for the Advancement of Science's (AAAS) comprehensive, long-term initiative to transform science, mathematics, and technology education for the 21st century. Project 2061 is currently seeking a Implementation Director to organize and direct Project 2061 implementation activities.

Responsibilities will include developing and pursuing strategies and plans for Project 2061 implementation, especially the preparation of implementation leaders, building community consensus on the need for proposed reform efforts, and selection and preparation of initial implementation sites; reinforcing relationships and planning and coordinating liaison activities with key organizations such as federal and state agencies; participating with Project 2061 staff in planning other aspects of Project phases; providing advice in areas of expertise and representing the Project to external audiences. This is a full-time position for an initial period of two years.

Qualifications: Doctorate in science or science education; 10 to 15 years related work experience (extensive experience in developing and implementing science education innovations and working with high-level education decision-makers); excellent writing ability and interpersonal skills; one to two years supervisory experience; budget experience helpful.

AAAS offers a competitive salary and excellent benefits, a professional environment, and pleasant surroundings convenient to Metro. Please submit cover letter, resume & salary requirement to:

AAAS
Human Resources Department
1333 H St., N.W., Suite #125
Washington, DC 20005

AAAS is an Equal Opportunity Employer and has a non-smoking work environment.
Research Associates

Amgen is an innovative leader in the discovery, development and marketing of human therapeutics. Our advanced research in biotechnology has resulted in such breakthrough products as EPOGEN® (recombinant human Erythropoietin) and NEUPOGEN® (recombinant human G-CSF). The success of these products has opened the way to new and expanded projects, resulting in a thriving environment for Research Associates.

Neurobiology

We're seeking a Research Associate who is interested in working in the field of neural development and regeneration. The successful candidate will have at least two years of lab experience or equivalent, a BS degree and the ability to interact well with co-workers. Must have skills in animal surgery, animal models for neuronal degenerative diseases, neuroanatomy and general histology. Basic biochemical skills and some tissue culture experience are helpful. Candidate should be meticulous, motivated and eager to learn new things. Job Code #S-506

Amgen offers a very competitive compensation and benefits package. In addition to a stimulating work environment. If you have the necessary qualifications and would like to be part of an organization that places its highest value on the contributions of its people, send your resume to: Amgen Inc., Staffing Dept. (Mail Code 10-1-A-411), (indicate Job Code number), Amgen Center, Thousand Oaks, CA 91320-1789. Amgen is an equal opportunity employer.

CONSULTING TOXICOLOGIST—MAMMALIAN

Exxon Biomedical Sciences, Inc., has immediate openings for qualified Toxicologists in our chemical and petroleum groups. Ideally, the successful candidates will possess a Ph.D. in Toxicology or an M.S. degree with 3+ years of experience and demonstrated ability to identify, develop, market, and manage the delivery of major human health/product toxicology studies.

The successful candidate will provide extensive consulting assistance to Exxon's worldwide affiliates. The work, as well as the organization, is multidisciplinary, and client interactions are a very important aspect of the work. We are seeking an applications-oriented individual with excellent communications and project management skills.

We offer a competitive salary, attractive benefits, and a chance to join a dynamic organization in a position with opportunities for career growth. Please send resume to Frances T. Cohen, Human Resources.

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Metliers Road, CN2350
East Millstone, NJ 08875-2350
Equal Opportunity Employer M/F/H/V

OCCUPANCY IN NOAA ASSISTANT ADMINISTRATOR FOR SATELLITE AND INFORMATION SERVICES

THE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION (NOAA) seeks to fill the position of Assistant Administrator for Satellite and Information Services. This position is to be filled in the SENIOR EXECUTIVE SERVICE (SALARY RANGE: $80,000-$112,100, based on qualifications).

The incumbent is responsible for NOAA's environmental satellite and information management programs and directs the National Environmental Satellite, Data, and Information Service (NESDIS). NESDIS programs provide satellite as well as retrospective in situ data, information, and services needed to support environmental studies and predictions. NESDIS operates civilian satellite systems that provide observations to atmospheric, oceanic and solar programs. NESDIS also operates three data centers that assemble and distribute environmental data sets required by national environmental programs. NESDIS supports satellite sensor and technology development as appropriate for NOAA's polar and geostationary operational satellite systems.

Candidates must have at least five years experience in knowledge of operations and information services and scientific program planning and policy development at a senior level within the satellite and information arena. Interagency and international experience in environmental data policy formulation, environmental data requirements setting and satellite sensor requirements development is also required.

The Department of Commerce Vacancy Announcement number for this position is NOAA 492-1508. The position opens on 18 November 1992 and closes on 12 January 1993. For further information and to receive the position description, supplemental qualifications questionnaire and other instructions, contact Debbie Scholl or Heidi Smith at the NOAA Personnel Office, (301) 713-0530.

National Oceanic and Atmospheric Administration
Personnel Division - OA/SSMC/Room 3102
1335 East West Highway
Silver Spring, MD 20910

AN EQUAL OPPORTUNITY EMPLOYER
**Carolina Conference on**  
**INTEGRINS AND CELL SIGNALING**  
To be held April 30–May 2, 1993  
at the University of North Carolina at Chapel Hill  
The cost of registration and meals is $220 (does not include lodging). Please apply by February 1 by writing a brief letter describing your research interests and their relevance to this meeting. For further information contact Jo Ann McPherson, The Program in Molecular Biology & Biotechnology, CB# 7100-S, 130 MBBRL, The University of North Carolina at Chapel Hill, Chapel Hill, NC 27599–7100. Ph. # (919) 966-6800 or Fax (919) 966-6821.  
Co-sponsored by the North Carolina Biotechnology Center, the Program in Molecular Biology & Biotechnology, the Society for Leukocyte Biology, Hoechst-Roussel Pharmaceuticals, the UNC-CH Center for Thrombosis and Hemostasis, and the Department of Pharmacology, UNC-CH.

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**POSTDOCTORAL POSITION**  
**BIOCHEMISTRY OF DIFFERENTIATION**  
A postdoctoral position is available immediately to join a group investigating the role of retinoid metabolism during keratinocyte differentiation. The laboratory has recently reported the status of retinoid metabolites in differentiated keratinocytes. We will now focus on the access of these metabolites, the regulation of their synthesis, and their role in keratinocyte maturation. Techniques presently utilized include HPLC analysis and immunohistochemistry. As the project proceeds techniques of molecular biology and protein biochemistry will be employed. The successful candidate should possess a background in biochemical or molecular biologic studies involving regulatory or signal transduction pathways, and an interest in epithelial cell biology. Interested candidates should send a letter describing current and past research training, and the names of 3 references to:  
Dr. Marcia Simon, Living Skin Bank, Department of Oral Biology and Pathology, School of Dental Medicine, SUNY at Stony Brook, Stony Brook, NY 11794-8702  
The University at Stony Brook is an affirmative action/equal opportunity educator and employer.

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**WORLD AIDS FOUNDATION**  
The World AIDS Foundation (WAF) announces its intent to support research and education relating to AIDS in the developing world. The goal of the WAF is to facilitate information exchange and to assist developing countries to respond to the AIDS pandemic.  
The Foundation is particularly interested in projects that are catalytic, and once in place could have a multiplicative effect. The WAF also is particularly interested in supporting applications that originate from developing countries and which emphasize collaboration between and among scientists from developed and developing countries. The main area of interest of the WAF is education for health professionals in developing countries especially in-country training. This includes highly focused workshops which enhance the scientific process and transfer knowledge needed in the effort against HIV infection and AIDS.  
The limit of any single funding request to the Foundation is $200,000.  

**Application Procedures:**  
Concept letter and applications may be prepared in either English or French. Applicants should submit concept letters for initial consideration. Following review of concept letters, applicants may be invited to submit complete proposals. The annual deadline for receipt of concept letters is February 1.  

Concept letters and inquiries concerning the programs of the World AIDS Foundation should be directed by mail or by fax to either:  
**World AIDS Foundation**  
**Assistant Secretary for Health**  
c/o Director, Fogarty International Center  
National Institutes of Health  
Building 31, Room B2C02  
9000 Rockville Pike  
Bethesda, Maryland 20892 U.S.A.  
Fax: (301) 402-2056  
or  
**Fondation Mondiale SIDA**  
c/o Directeur de l’Institut Pasteur  
28 rue du Docteur Roux  
75724 Paris, Cedex 15 FRANCE  
Fax: 0033-1-45689938  

NIH is an Equal Opportunity Employer.
RESEARCH ASSOCIATE

We seek an individual with a Ph.D. or M.D. degree for participation in research on eicosanoids and other vasoactive hormonal systems. Experience in lipid biochemistry, cell biology or molecular biology desirable. Send curriculum vitae and three letters of reference to: Dr. Alberto Naslett, Department of Pathology, University of Texas Health Science Center San Antonio, 765 Floyd Curl Drive, San Antonio, TX 78284-7750.

NATIONAL RESEARCH COUNCIL ASSOCIATE

An opportunity is available at the National Research Council (NRC) Research Associateship program for postdoctoral candidates currently enrolled in a Ph.D. or M.D. program in the field of pharmacology or a related field. Candidates should send curriculum vitae and a brief statement of research interests to: Dr. Stanley Goldstein, Director of the National Research Council, 2101 Constitution Ave., NW, Washington, DC 20418.

HORTICULTURAL TAXONOMIST

The University of New Mexico College of Engineering is seeking a Director of the Center for Radioactive Waste Management. The Center, which is now formally organized, has over twenty faculty from across the university conducting research programs in various topics in radioactive waste management, with annual funding of over $2 million. UNM has a degree and certificate program with emphases in radioactive waste issues and an extensive series of non-credit videoconferences and short courses. The Director will assume a significant role in the New Mexico Waste Management Education and Research Consortium (WREC), a consortium of New Mexico State University, New Mexico Institute of Mining and Technology, The University of New Mexico, Navajo Community College, Sandia National Laboratories and Los Alamos National Laboratory, which is funded primarily by the U.S. Department of Energy.

Candidates for Director should have an international reputation in radioactive waste management, managerial skills in an interdisciplinary setting, ability to generate and supervise externally funded research, and ability to work effectively with both the technical community and non-technical public.

Candidates must have a doctorate in engineering or science and be qualified for the position of tenured professor in one of the departments of the College of Engineering. Joint appointment with another department in the University may also be considered.

Interested persons should send a complete resume and a list of four references to:

Dr. David Kenkel, Associate Dean
College of Engineering
The University of New Mexico
Albuquerque, NM 87131

Applications must be received by January 29, 1993, for primary consideration. Salary will be commensurate with qualifications and experience.

The University of New Mexico is an equal opportunity/affirmative action employer.

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**DIRECTOR CENTER FOR RADIOACTIVE WASTE MANAGEMENT**

**THE UNIVERSITY OF NEW MEXICO**

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**STAFF SCIENTIST**

**PURIFICATION DEVELOPMENT**

**Delivering on the Promise of Biotechnology...**

Immunex Corporation, a leading biopharmaceutical company focused on the discovery, development, manufacture and marketing of products to treat cancer and autoimmune disease, is seeking a qualified candidate to join our Purification Development group. The successful candidate will be involved in developing purification processes for the clinical production of recombinant proteins. Projects will include designing and directing experiments utilizing conventional and novel purification methods that allow for scale up and implementation of purification process into clinical manufacturing. Scientists with a Ph.D. in chemistry, biology or chemical engineering and experience with protein purification and protein characterization are encouraged to apply. Extensive experience with various chromatography processes is desired as well as familiarity with membrane filtration and systems.

Immunex Corporation offers a fast paced, stimulating environment and a competitive compensation package. For consideration, please submit C.V., names of three references and a list of publications to the following address and specify job #7215347: IMMUNEX CORPORATION, Attn.: Human Resources Dept., 51 University St., Seattle, WA 98101. Fax: (206) 625-4572.

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**STUDY DIRECTOR GLP Toxicology**

We now seek a top professional to oversee in-house toxicology and contract laboratory studies. Responsibilities include protocol development, study monitoring, and report preparation. You will also conduct literature evaluations and interact with drug discovery, drug metabolism, and other drug development personnel. We require a Ph.D in Pharmacology/Toxicology and 1-2+ years of pharmaceutical and/or postdoctoral toxicology experience.

Abbott provides an excellent salary and benefits package including profit sharing and a stock retirement plan. We are located in an attractive suburban area approximately 30 miles north of Chicago. For confidential consideration, please send a resume with salary history to: Patricia Handy, Corporate Staffing, Job #37379, Abbott Laboratories, One Abbott Park Rd., Abbott Park, IL 60064. Abbott is an Affirmative Action Employer/Smoke-Free Environment.

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**PHARMACEUTICAL DISCOVERY**

Corvas International, Inc., an emerging biopharmaceutical company based in La Jolla, California, is expending to address product opportunities for the treatment of thrombosis and vascular disease. Our focus is the development of pharmaceuticals targeted at enzymes and receptors involved in the processes of thrombosis and inflammation. To approach these important therapeutic targets, we have assembled a highly talented multidisciplinary team.

Our beautiful Torrey Pines location places us in the midst of academic and institutional research excellence, as well as the area's expanding biotech industry. We offer attractive compensation packages, equity participation, and a highly interactive and stimulating scientific environment. For consideration, please send a CV and a letter of interest referencing the job code number above to: Corvas International, Inc., Human Resources, 3030 Science Park Road, San Diego, CA 92121. Equal Opportunity Employer.
**POSITION ANNOUNCEMENT**
AGRONOMIST/PROGRAM LEADER
of the
UPLAND RICE ECOSYSTEM RESEARCH PROGRAM

IRRI is one of 18 international centers supported by the Consultative Group on International Agricultural Research (CGIAR). Its basic goal is to improve the well being of rice growers and consumers worldwide. Institute scientists work in an interdisciplinary, creative and scientifically modern environment and in collaboration with colleagues and scientists in National Agricultural Research Systems (NARS). The Institute located in Los Baños, Philippines, about 70 km south of Manila provides a supportive, multi-cultural living environment for families and children. The Upland Rice Ecosystem Research Program, one of 5 IRRI research programs, conducts research to help rehabilitate and increase the stability and sustainability of upland rice systems. The program helps strengthen the research capability of NARS through research collaboration and training thereby improving the livelihood of poor farmers, many of whom are women.

Responsibilities

- Lead research on nutrient cycling processes, with the objective of maintaining or enhancing soil fertility to increase productivity, stability and sustainability of upland systems.
- Collaborate with weed scientists and crop physiologists to develop a quantitative understanding of the interactions among soil fertility management, nutrient cycling, weed competition/succession and water use efficiency of upland systems.
- Provide visionary leadership in developing a program of research for the upland rice ecosystems and provide participatory team leadership for program members.
- Prioritize, monitor, review and evaluate research project progress and resource requirements; take corrective action when necessary.
- Coordinate program reporting through annual reports, reviews and other mechanisms including presentation to IRRI’s Board Program Committee.

Qualifications

- Ph.D. in agronomy, soil science or agroecology, with a proven record of scientific contribution.
- At least 10 years post PhD research experience.
- Demonstrated management skills, including the ability to function in participatory, multi-disciplinary and multi-cultural environment.
- Experience with rice and acid soil ecologies in the tropics is desirable.
- IRRI provides a gender sensitive work environment and particularly welcomes women applicants.

Benefits

Salary and prerequisites are competitive with those of similar international organizations. These include support for education, car, housing and favorable annual leave, medical and retirement benefits. The appointee will be assigned at IRRI headquarters in Los Baños and should be prepared to travel to rice growing countries in Asia.

Applications

Send applications with full documentation, including CV and names of 3 referees (with telephone and fax numbers, if possible) to:

Dr. Klaus J. Lampe, Director General
IRRI, P.O. Box 833, 1088 Manila, Philippines
Tel: 63-2-8181959  FAX: 63-2-8182097, 8179470
Toll free: 4080 RICE PM or 22468 IRRI PH

Applications are due on or before February 28, 1993, or until a suitable candidate has been identified.

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**DIRECTOR OF THE CENTER**
FOR BASIC AND APPLIED MEDICAL RESEARCH
LOVELACE MEDICAL FOUNDATION

Loveland Medical Foundation, Albuquerque, New Mexico is seeking a Director of the Center of Basic and Applied Medical Research (CBAMR). Under the direction of the CEO, the Director is responsible for planning, staffing, operating, monitoring and control of CBAMR which will promote the Foundation's mission of the creation, application, and dissemination of knowledge for the improvement of human health. The Director will devote sixty percent of his/her time to personal research and forty percent to management activities.

Successful candidates must possess a doctoral level degree in medicine or science; credentialing, certification, and licensure appropriate to the individual’s professional field; a senior level scientist with at least seven years of experience in biomedical research; a background of research interests relating to environmental health; evidence of professional recognition and accomplishment; experience in managing research scientists, programs and operations; excellent oral and written communication skills; a thorough understanding of research funding and the ability to lead and supervise an accomplished technical/professional staff.

Resumes will be accepted until February 15, 1993. Qualified candidates should send letter of interest, curriculum vitae and names and telephone numbers of three references to Judy Coalson, Manager of Human Resources, Loveland Medical Foundation, 2441 Ridgecrest Dr. SE, Albuquerque, New Mexico 87108, 505/262-7938.

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**Field Services Coordinator**

Project 2061 is the American Association for the Advancement of Science’s (AAAS) comprehensive, long-term initiative to transform science, mathematics, and technology education for the 21st century. Project 2061 is currently seeking a Field Services Coordinator to work with cooperating school districts and other similar groups.

Responsibilities include developing and implementing an operational plan to guide Project 2061’s continued interaction with six cooperating teams of educators and other similar groups; coordinating activities of the Project 2061 office and the six teams; coordinating communications and serving as primary liaison between Project 2061 staff and the leaders of the six teams; managing the development of formal agreements with teams and other groups and monitoring progress; managing collection, analysis, and synthesis of information from teams and other groups in preparation for development of a publication on implementation of Project 2061 reforms; participating with other staff in planning Project 2061 activities and representing the Project to external audiences. This is a full-time position for an initial period of two years.

Qualifications: Master's degree (science education or related field); five to ten years related work experience (K-12 teaching, curriculum development, and teacher supervision in science related field); experience in state-level advisory groups or task forces; successful experience with curriculum-based reform at state and local education levels; excellent writing, verbal, and interpersonal skills.

AAAS offers a competitive salary and excellent benefits, a professional environment, and pleasant surroundings convenient to Metro. Please submit cover letter, resume & salary requirement to:

AAAS
Human Resources Department
1333 H St., N.W., Suite #125
Washington, DC 20005

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**National Institute of Allergy and Infectious Diseases**
National Institutes of Health

**MOLECULAR VIROLOGIST**

Postdoctoral position is available in the Laboratory of Infectious Diseases, (1) to conduct studies on dengue viruses and other medically important, insect-borne flaviviruses at the molecular level, (2) to elucidate mechanisms of gene expression, polypeptide processing and viral replication, (3) to analyze genetic determinants of virulence using chimeric viruses derived from cloned DNA, and (4) to develop live virus and subunit vaccine strategies for prevention of viral infections. Applications are invited from individuals having a doctoral degree in Medicine, Microbiology, Virology or Pathobiology. Previous experience with molecular techniques is preferred. Salary will be commensurate with experience.

Qualified and interested candidates should send curriculum vitae and names and addresses of three (3) references to:

Ching-Juh Lai, Ph.D.
Head, Molecular Viral Biology Section
NIH, NIAID
Laboratory of Infectious Diseases, NIAID
National Institutes of Health
9000 Rockville Pike
Building 7, Room 234
Bethesda, MD 20892
Fax: (301) 402-0524

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**National Institutes of Health**
Postdoctoral Research Fellows

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**IMMUNOLOGY R&D**

- Ph.D in Hematology and knowledge of hematopoietic progenitors and means of identifying required. Background in biochemistry, molecular biology and flow cytometry preferred.
- Ph.D in Cellular Immunology and familiarity with production and maintenance of human T-cell clones required. Background in biochemistry, molecular biology and flow cytometry preferred.

**HEMOSTASIS AND TECHNOLOGY R&D**

- Ph.D in Biochemistry/Chemistry or a related field required. Background in Platelet Biology, Mechanism of Cellular Receptor Function, Antibody Development and Fibrinolysis preferred.
- Ph.D in Biochemistry/Chemistry or a related field required. Background in Enzyme Kinetics, Fluorescence/Chemiluminescence and Protein Chemistry preferred.

**HEMOSTASIS AND TECHNOLOGY R&D**

- Ph.D in Biochemistry/Chemistry or a related field required. Background in Platelet Biology, Mechanism of Cellular Receptor Function, Antibody Development and Fibrinolysis preferred.
- Ph.D in Biochemistry/Chemistry or a related field required. Background in Enzyme Kinetics, Fluorescence/Chemiluminescence and Protein Chemistry preferred.

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**The Hong Kong University of Science and Technology**

**Department of Biology**

The Department of Biology invites applications for several faculty positions beginning July, 1993. Appointments will be made at the levels of Lecturers, Senior Lecturers, Readers and Professors. Research areas of particular interest include, but are not restricted to, molecular genetics/epigenetics, plant molecular biology and biochemistry, environmental biology, developmental biology, neurobiology and microbiology. Clear evidence of research excellence and teaching potential is essential. Review of applications will commence after January 1, 1993 and positions will remain open until filled.

Hong Kong University of Science and Technology is a publicly-funded research university established in April 1998. The Department of Biology is well equipped and has post-graduate programme to offer M.Phil. and Ph.D. degrees. Salary range for these positions is from US$44,100 p.a. (Lecturer minimum) to US$97,700 p.a. (Professor minimum). Generous fringe benefits including medical and dental benefits, annual leave and children's education allowances are provided. Air passages and housing are also provided where applicable. Initial appointments are generally on a three-year contract; a gratuity of 25% of the total basic salary drawn will be payable upon successful completion of contracts.

Applications/nominations should be sent with C.V. and the names of 3 referees to: Prof. Madeline Wu, Acting Head, Department of Biology, Hong Kong University of Science and Technology, Clear Water Bay, Kowloon, Hong Kong, Fax No.: (852) 358 1559.

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**Leadership in Natural Products Research**

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The Research Triangle Institute offers a scientifically stimulating environment in a multidisciplinary research organization. Ongoing programs in organic, bioorganic and medicinal chemistry, life sciences and toxicology offer opportunities for collaborative research. The Research Triangle Park is noted for both its science and its quality of life.

Please address applications to Natural products Search Committee, Research Triangle Institute, PO Box 12194, RTP, NC 27709. Include your CV, a statement of your research and career goals, and the names of 3 references.

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Research Triangle Institute
PHARMACEUTICAL DESIGN USING EPITOPE SELECTION TECHNOLOGIES
February 1–2, 1993; Hyatt Rickeys, Palo Alto, CA.

ANNOUNCEMENTS

VISITING AFRICAN-AMERICAN SCHOLARS PROGRAM

Butler University

Butler University seeks outstanding African-American scholars (rank open) to participate in a visiting scholars program co-funded by Lilly Endowment, Inc. Positions available for Fall 1993 and Spring 1994 are for one semester and involve a strong commitment to interaction with faculty, students and the community; an opportunity to pursue research interests; and a minimal teaching load. Field of expertise is open. Butler University offers degree programs in biological sciences, social sciences, humanities, music, dance, theater, radio/TV, pharmacy, education and administration.

Butler is a selective university in an exciting period of growth and is committed to increasing its African-American student body and faculty. Enrollment is 2600 full-time undergraduate and 2000 part-time graduate and undergraduate students. The wooded 300-acre campus is located in a residential area near downtown Indianapolis. Send nominations or letter of interest, curriculum vitae, and the names of two references by February 1, 1993, to: Dr. Kenneth Colburn, Visiting African-American Scholars Program, Butler University, 4600 Sunset Avenue, Indianapolis, IN 46208. For more information call (317) 283-9974. Butler University is an Equal Opportunity/Affirmative Action Employer.

University of California, San Francisco

Announces the Formation of a New Graduate Program in BIO MEDICAL SCIENCES

We believe that the next frontier in modern biology is the investigation of normal and pathological function in vertebrates using a combined molecular and integrative approach. To train investigators for research on cells, tissues, organs and organ systems, cellular and whole animal techniques, we have formed a new program for doctoral training in Biomedical Sciences. The program will emphasize an integrated approach to vertebrate biology and the importance of disease in biological research. A faculty of over sixty members, drawn from basic science and clinical departments, represents a broad range of research interests. Students entering the program will take a specially designed curriculum of courses combined with laboratory rotations, and will then enter a laboratory for research training. We invite applications from domestic and international students.

New Graduate Program in Biomedical Sciences:

University of California, San Francisco

For information, please contact: Pamela Humphrey, Program Coordinator, Box 0444, University of California, San Francisco, CA 94143.

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ANNOUNCEMENTS

REQUEST FOR PROPOSALS

MOLECULAR GENETIC STUDIES INHERITED RETINAL DEGENERATIONS

Proposals are invited for molecular genetic analysis of inherited retinal degenerations such as retinitis pigmentosa and allied disorders, Usher syndrome, and inherited macular degeneration. Proposals must focus on mapping, isolation, and characterization of genes causing a (s) of retinal degeneration. Proposals to define and/or correct gene defects in animal models, including transgenics, are also invited.

New and renewal applications will be reviewed by a special committee for evaluation. The RP Foundation Scientific Advisory Board, solely on the basis of scientific merit and direct relevance. Awards will average $100,000 annually for three years.

Interested individuals should submit a letter of intent which briefly summarizes the proposed research approach, describes background of the laboratory, and gives an approximate budget and curricula vitae of the principal investigators. Following a preliminary review, complete applications will be invited from a limited number of applicants. Deadline for letter of intent is January 22, 1993, for applications due April 1, 1993, and funding is expected to begin September 1, 1993.

Address letters of intent to: Jeanette S. Felix, Ph.D., Director of Science, RP Foundation Fighting Blindness.

Short Course on Time-Resolved Fluorescence Spectroscopy

1993, Baltimore, Maryland Center for Fluorescence Spectroscopy

University of Maryland School of Medicine

Topics include: time- and frequency-domain methods, instrumentation, data analysis, anisotropy, quenching, lifetime-based sensing, fiber optics, fluorescence lifetime imaging. For outline/registration form, contact: Susan Rhinehart (coordinator) or Prof. J. B. Lakowicz, Department of Chemistry, University of Maryland School of Medicine, 108 North Greene Street, Baltimore, MD 21201; Telephone: 410-706-8409; FAX: 410-706-8408.

NASA PLANETARY BIOLOGY INTERNSHIPS

The Marine Biological Laboratory, Woods Hole, Massachusetts, invites applications from graduate students and seniors accepted to graduate programs for awards of $2200 plus travel to participate in research at NASA facilities. Interested students are expected to spend 8 weeks. Typical intern programs include: global ecology, remote sensing, microbial ecology, biomineralization, and origin and early evolution of life. Application deadline is March 1993. For information/applications, contact: Lorraine Olendzenski, Planetary Biology Internship, Department of Biology, University of Massachusetts, Amherst, MA 01003. email: PR@botany.umass.edu. An Equal Opportunity/Affirmative Action Institution.

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**Dilution of Supernate**

Antibody production was measured via sandwich ELISA with alkaline phosphatase conjugate. Cells were maintained for 3 days, the supernates were collected, diluted and assays were performed. Optical densities (405nm) were plotted versus dilution of supernate.

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