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1993-94 Congressional Science and Engineering Fellowships

PROGRAM: Fellows spend one year working as special assistants on the staffs of members of Congress or congressional committees, working in legislative areas requiring scientific and technical expertise. The program includes an orientation on congressional and executive branch operations and a year-long seminar program on issues involving science and public policy. Fellows receive stipends from their sponsoring societies.

PURPOSE: To provide a unique public policy learning experience, to demonstrate the value of science-government interaction, and to make practical contributions to the more effective use of scientific and technical knowledge in government.

CRITERIA: A prospective Fellow must be a postdoctoral to midcareer scientist or engineer; demonstrate exceptional competence in some area of science or engineering; be cognizant of many matters in nonscientific areas; demonstrate sensitivity toward political and social issues; and perhaps most important, have a strong interest and some experience in applying personal knowledge toward the solution of societal problems.

SPONSORS: Approximately twenty national professional scientific and engineering societies will sponsor or cosponsor Congressional Science and Engineering Fellows in 1993-94:

| Acoustical Society of America | American Society for Horticultural Science |
| American Association for the Advancement of Science | American Society for Microbiology |
| American Chemical Society | American Society of Mechanical Engineers |
| American Geophysical Union | American Society of Plant Physiologists |
| American Institute of Biological Sciences | American Society of Zoologists |
| American Institute of Physics | American Veterinary Medical Association |
| American Physical Society | Biophysical Society |
| American Psychological Association | Federation of American Societies of Food |
| American Society for Agronomy/Crop Science | Animal Sciences |
| Society of America/Soil Science Society of America and regional affiliates | Geological Society of America |
| of America/Weed Science Society of America | Institute of Electrical and Electronics Engineers |

Applicants should apply directly to the appropriate professional society. It is acceptable to apply to more than one society. Stipends, application procedures, timetables, and deadlines vary by society. Further information about the program and a list of the participating societies, with mailing addresses and contact people, is available from:

Congressional Science and Engineering Fellowship Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005

Minorities and persons with disabilities are encouraged to apply.
POSITIONS OPEN

The Biology Department at Troy State University (TSU) in Troy, Alabama, is seeking an ASSISTANT PROFESSOR OF BIOLOGY. This is a tenure-track position beginning January 1993. Earned doctorate and a strong commitment to undergraduate teaching is required. The successful candidate must have the ability to teach parasitology, embryology, comparative invertebrate zoology, comparative vertebrate zoology, principles of animal behavior. The review of applications will begin on October 23, 1992 and will continue until the position is filled. Send letter stating teaching philosophy, resume, undergraduate and graduate transcripts and references to: Office of Personnel Services, Troy State University, Troy, AL 36082. TSU is an Affirmative Action/Equal Opportunity Employer. Women and minorities are encouraged to apply.

FACULTY POSITION IN BIOSTATISTICS

Department of Biomedical and Environmental Health Sciences
School of Public Health
University of California, Berkeley 94720

A tenure-track position in Biostatistics will be available beginning Fall 1993 at the ASSISTANT PROFESSOR level, pending budgetary approval. Applicants should possess a strong background in both theoretical and applied biostatistics and will be expected to develop an in-depth research program. Duties will include developing and teaching upper-division courses to senior majors in addition to directing graduate student research. A Ph.D. in Biostatistics or a related field is required. Applications must be submitted before January 15, 1993. Send curriculum vitae, list of publications, and names and addresses of five individuals who may be contacted for reference to:

Steve Selvin, Chairman, Search Committee
Department of Biomedical and Environmental Health Sciences
School of Public Health
University of California
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ASSISTANT PROFESSOR position open at THE SALK INSTITUTE in the Clayton Foundation Laboratories for Peptide Biology. We are seeking a Ph.D./M.D./researcher with an interest in neural or endocrine development and mechanisms of growth factor action. Familiarity with gene knockouts and biology is desirable but not essential. Our department includes investigators with diverse interests in neuroendocrine systems, cell signalling, ontogeny, neural regeneration, peptide and protein biochemistry. Qualified candidates should send curriculum vitae, description of research interests, reprints of selected publications, and the names and addresses of three references to: Wylie Vale, Head, The Clayton Foundation Laboratories for Peptide Biology, The Salk Institute for Biological Studies, 10010 North Torrey Pines Road, La Jolla, CA 92037.

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BUCKNELL UNIVERSITY

ASSISTANT PROFESSOR OF BIOLOGY

Anticipated three-year temporary position beginning Fall 1993. Applicant should possess a strong interest in teaching of science, pedagogical research, and creative teaching of introductory courses, including both plant and animal sciences. Opportunity to teach upper-division courses in applicant's area of interest also exists. Ph.D. and teaching experience required. Successful applicant will be expected to become a permanent member.

Applicants should forward curriculum vitae, statement of research interest, evidence of teaching effectiveness, and three letters of recommendation to: Dr. Sally Nyquist, Chair, Department of Biology, Bucknell University, Lewisburg, PA 17837. Closing date for applications: November 15, 1992. Women and members of minority groups are encouraged to apply.

POSITIONS OPEN

MOLECULAR GENETICIST

The Department of Biology at Virginia Commonwealth University invites applications for a tenure-track ASSOCIATE PROFESSOR position. Teaching responsibilities will include undergraduate genetics and, periodically, upper/ lower-level courses in the candidate's specialty. Candidates must have a Ph.D. in genetics or a closely related discipline; postdoctoral experience is preferred. The successful candidate will be expected to develop an externally funded research program in an area of molecular genetics complementary to existing environmental and plant genetics research programs. Virginia Commonwealth University is a culturally diverse institution with an enrollment of 22,000 students. The Biology Department includes 26 faculty members and has a M.S. graduate program. Submit curriculum vitae, selected reprints, statements of research and teaching interests, and three letters of recommendation by 21 December 1992 to: Dr. John F. Pagan, Department of Biology, Virginia Commonwealth University, Richmond, VA 23284-2. Virginia Commonwealth University is an Equal Employment Opportunity/Affirmative Action Employer and encourages women, minorities and persons with disabilities to apply.

ADJUNCT ASSISTANT PROFESSOR/ASSISTANT RESEARCH SCIENTIST

The Department of Internal Medicine, College of Medicine is seeking an Adjunct Assistant Professor/Assistant Research Scientist. A 1-year, non-tenured appointment to a Research Laboratory. This person will participate in NIH-supported research related to understanding the importance of various risk factors for atherosclerosis and the consequences of the LDL particle. The position requires knowledge of lipoprotein metabolism. He/She will be encouraged to develop his/her own R01-level research program, and must have a Ph.D. The University of Iowa is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply. Please send resume to: Darris Goerd, Administrative Assistant, Department of Internal Medicine, SE318GH, University of Iowa Hospitals & Clinics, Iowa City, IA 52242.

ENVIRONMENTAL TOXICOLOGIST

The Department of Biological Sciences, Wichita State University (WSU), invites applications for a tenure-track position with the rank of ASSISTANT or ASSOCIATE PROFESSOR. We seek an individual with broad training in toxicology and biology/ecology who uses a cell or molecular approach to perform research in environmental toxicology. Abundant opportunities exist in the region for groundwater and aquatic studies. The applicant must possess significant postdoctoral training or a record of research and the ability to interact collegially. Appointment at the Associate level requires a record of funded research activity. Expectations also include being an active undergraduate and graduate student and participation in training in multidisciplinary environmental sciences at the graduate level. Deadline for applications is November 30, 1992 or the first of the month until the position is filled. Send curriculum vitae, statement of research and teaching goals, and three names of references to: Chairperson, Environmental Toxicologist Search Committee, Department of Biological Sciences, Wichita State University, Wichita, KS 67208. WSU is an Affirmative Action/Equal Opportunity Employer.

ECOLOGIST. The Department of Biology at New Mexico State University (NMSU) anticipates appointments for a tenure-track ASSISTANT PROFESSOR for Fall 1993. Applicants should have modern methods (quantitative, experimental, and/or molecular) to research problems in animal ecology. The successful candidate will join an active group of ecologists and is expected to develop a vigorous research program and to teach at the undergraduate and graduate levels. The department offers B.S., M.S. and Ph.D. in biology. Submit curriculum vitae, concise statement of teaching and research interests, and names, addresses, and telephone numbers of at least three references to: Dr. William A. Bucklen, Search Committee, Department of Biology, Box 330001, NMSU, Las Cruces, NM 88003. Closing date for applications is November 15, 1992. NMSU is an Affirmative Action/Equal Opportunity Employer.
POSITIONS OPEN

ASSISTANT/ASSOCIATE PROFESSORS
NEUROSCIENCES
CASE WESTERN RESERVE UNIVERSITY

The Department of Neuroscience at Case Western Reserve University School of Medicine has two full-time, nine-month, tenure-track opening positions for exceptional candidates from any subfield of neuroscience. Applications are invited from candidates expected to have Ph.D. and/or equivalent postdoctoral experience and who are expected to train graduate students and establish research programs that are both ambitious and externally funded. The successful candidate is expected to serve on key institutional committees and to demonstrate excellence and growth in teaching and research. If you are interested in these opportunities, please apply online at www.cwru.edu/careers.

POSITIONS OPEN

ASSISTANT PROFESSORS
Biological Department
Williams College

The Biology Department seeks applicants for two positions to be filled in the fall of 1993. (1) a tenure-track position as an ASSOCIATE PROFESSOR with expertise in genetics and functional genomics in the context of organismal genetics. (2) a tenure-track position as an ASSISTANT PROFESSOR with expertise in evolutionary biology. Both candidates are expected to have a Ph.D. and should be willing to contribute to the development of a comprehensive undergraduate curriculum. In addition, both candidates are expected to be committed to excellence in teaching and mentoring and to seek external funding for their research programs. The deadline for applications is January 15, 1993. Please send curriculum vitae, a letter of recommendation, and three references to: Dr. Edward M. Q. Williams, Department of Biology, Williams College, Williamstown, MA 01267.

POSITIONS OPEN

MICROBIAL PHYSIOLOGIST

Applications are invited for a tenure-track position available fall 1993 at the rank of ASSISTANT PROFESSOR. Faculty members in the Biology Department of the University of Maine are expected to be involved in teaching, research, and student advising. The successful candidate is expected to develop an independent research program that will involve undergraduate students, and to attract external funding. Submit letter of interest, curriculum vitae, transcripts, description of research interests, recent reprints and three letters of recommendation to: Department of Marine, Earth and Atmospheric Sciences, University of Maine, Orono, ME 04469. Applications received by March 15, 1993 will be given preference. Review of applications will continue until the position is filled.

MARINE BENTHIC ECOLOGY

The Department of Marine, Earth and Atmospheric Sciences (MEAS) at North Carolina State University (NCSU) has a nine-month, state-funded, tenure-track position available in marine benthic ecology. The successful candidate is expected to develop and promote research and teaching programs in marine benthic ecology, to provide undergraduate and graduate instruction, and to develop an active research program. The successful candidate is expected to have a Ph.D. and to have experience in teaching marine benthic ecology. The application deadline is January 15, 1993. All inquiries should be directed to Dr. Don C. Kress, Department of Marine, Earth and Atmospheric Sciences, North Carolina State University, Box 8208, Raleigh, NC 27695-8208. NCSU is an Affirmative Action/Equal Opportunity Employer.
**FACULTY POSITION IN MOLECULAR BIOLOGY**

**Rutgers University**

and the **Center for Advanced Biotechnology and Medicine**

The Center for Advanced Biotechnology and Medicine (CABM) and the Department of Molecular Biology and Biochemistry at Rutgers University are seeking applicants for a tenure-track faculty position. Applicants should have a strong record of publication in the processes of DNA replication, transcriptional control mechanisms, RNA splicing, receptors, or signal transduction. The successful candidate will occupy a assistant professor position. CABM is located on the Busch Campus where there are opportunities for research collaboration and participation in several university graduate programs. The position is highly competitive with regard to start-up funds, laboratory space, salary, and benefits. Send curriculum vitae, publications and summaries of research activities and plans, along with names and addresses of three references to: Drs. Avner Shatkin and Robert M. Kool, CABM/MBB Search Committee, 679 Hoes Lane, Piscataway, NJ 08854-5638. Rutgers University is an Equal Opportunity/Affirmative Action Employer, m/f/h/v.

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**PRINCIPAL SCIENTIST**

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For Senior Research Associates, candidates must have a Ph.D. in biochemistry, neurological sciences or pharmacology plus one year of Post Doc or one year of experience in biochemistry, pharmacology, neurochemistry, enzymology or closely related area OR a Master's degree in one of the above disciplines plus four years of experience in enzymology/pharmacology.

Candidates selected for interviewing will take an on-site writing assessment. Other factors to be considered for either position include experience and knowledge of tissue culture techniques.

**Senior Associate Pharmacologist—Pharmacology (POS. #6312-29)**

The Division of Pharmacology is seeking a pharmacologist to develop non-primate models of normal and impaired learning/memory and work with CNS program teams to discover drugs that restore cognitive function.

Candidates must have a Ph.D. in psychology, pharmacology or neuroscience with emphasis on the behavioral pharmacology or learning/memory plus one year of experience in learning/memory research. Candidates selected for interview will take an on-site writing assessment. Other factors to be considered in selection include publications demonstrating expertise in models of normal or impaired human learning/memory, and experience with the following: methods of producing impairment of learning/memory; operant behavior; neuroanatomical and histological procedures; surgery and drug development.

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Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level. Research areas and techniques of special interest include the vestibular nuclear reflex and its suppression, ocularmotor control during head movements and single unit recording in alert, behaving animals. Applicants should have a doctoral degree, relevant post-doctoral experience, and a demonstrated record of research accomplishments. The successful applicant will be expected to develop an independent research program focusing on basic vestibular and/or oculomotor neurophysiology.

Send curriculum vitae, bibliography, concise statement of research interests and future plans and the names of three references to: Janet A. Jamison, Neurophysiology, 102B Pitfield Hall, 3655 Drummond Street, Montreal, Quebec, Canada H3G 1Y6.

While all eligible candidates are encouraged to apply, initial preference will be given to applicants who are Canadian citizens or permanent residents of Canada in accordance with Canadian Immigration regulations.

BIOLIGIST. Nine-month, tenure-track position, rank of ASSISTANT PROFESSOR, to begin September 1, 1993. Ph.D. in a biological science with ability to teach in one or more of the following or related areas: entomology, developmental biology, physiological ecology, and a commitment to undergraduate teaching. Teaching responsibility will be primarily in the area of human anatomy and physiology. Instruction in the introduction to biology course will be required. Three letters of recommendation will be required. Submit letter of application, official transcript(s), three letters of recommendation, and current curriculum vitae to: Dr. Wayne R. Faircloth, Department of Biology, Valdosta State College, Valdosta, GA 31698. VSC is an Equal Opportunity/Affirmative Action Employer.

NEUROPHYSIOLOGIST: A position for an ASISTANT PROFESSOR OF PATHOLOGY is available in the University of Pittsburgh and the Children's Hospital of Pittsburgh. Successful candidates will be given full support to develop an active basic research program in Neuropathology and Neurobiology. Interest or training in Pediatric Neuropathology desirable but not required. Applicants should respond with a letter outlining their academic interests, and curriculum vitae to: George Michalopoulos, M.D., Ph.D., Professor of Pathology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. The University of Pittsburgh Medical Health Care Division is an Equal Opportunity Employer.

ASSISTANT PROFESSOR UNIVERSITY OF GEORGIA DEPARTMENT OF MICROBIOLOGY

The Department of Microbiology, at the University of Georgia, invites applications for the tenure-track Assistant Professor faculty position in cellular/molecular aspects of microbial physiology, or microbial pathogenesis. Qualifications include a Ph.D. in Microbiology and a minimum of two years of postdoctoral experience, a strong record of research productivity, and a commitment to excellence in classroom instruction. Women and minorities are especially encouraged to apply. Responsibilities will include the development of an independent, externally funded program of research and graduate training, as well as the teaching of courses at undergraduate and graduate level courses within the Department. Applicants should submit a statement of research and teaching interests, curriculum vitae, and the names of three references to: Search Committee, Department of Microbiology, University of Georgia, Athens, GA 30602. The University of Georgia is an Equal Opportunity/Affirmative Action Institution.

BIOPHYSICIST, ASSISTANT PROFESSOR. Full-time, tenure-track appointment (nine-month). Appointee will teach undergraduate and graduate students and develop an active, externally supported research program. Preference will be given to applicants using multidimensional NMR or X-ray crystallography in structural research. Qualifications: Ph.D. and significant postdoctoral research experience in biophysics, biophysical chemistry, or related field. Send letter of interest, curriculum vitae, description of research interests, and names of three professional references; and arrange to have reference letters sent to: Professor W. Curtis Johnson, Department of Biochemistry and Biophysics Oregon State University Agricultural & Life Sciences 2011 NEUROPATHOLOGIST: DEPARTMENT OF MICROBIOLOGY VALDOSTA State College Tenure-Track Position Tenure-track position available in the Department of Microbiology at Valdosta State College. Tenure-track position available in the Department of Microbiology at Valdosta State College. Assistant Professor of Microbiology, or equivalent rank. Applicants should have a Ph.D. in Microbiology or equivalent degree. Knowledge of molecular biology, cell biology, and/or immunology is required. Applicants should have a strong interest in teaching and in conducting research in the field of Microbiology. Submit letter of application, curriculum vitae, statement of research interests, and three letters of recommendation. The review of completed applications will begin December 15, 1992, and continue until the position is filled.

The Department of Psychiatry at the University of Wisconsin is seeking two faculty members at the ASSISTANT PROFESSOR level in the area of functional neurounatomy. Responsibilities include independent studies involving transmitter processes related to psychopharmacology and in the area of developmental psychopharmacology. Candidates for this full rank should have an established career and be applying for a tenured position. Opportunities for collaborative studies are available. The review of completed applications will begin December 15, 1992, to: Richard Davidson, Ph.D., Professor of Psychiatry, Room 46262, 600 Highland Avenue, Madison, WI 53792-2475. Names of final applicants cannot be kept confidential. The University of Wisconsin is an Equal Opportunity/Affirmative Action Employer.

EMORY UNIVERSITY, ANALYTICAL CHEMISTRY FACULTY POSITION. The Department of Chemistry at Emory University invites applications and nominations for a tenure-track position in Analytical Chemistry at the ASSISTANT PROFESSOR level. An applicant with a Ph.D. in Analytical Chemistry as the established investigator. A Ph.D. in chemistry is required. Applicants should receive curriculum vitae and an outline of the research interests and plans within a 2-month period. Applicants must send the names of three references and curriculum vitae to: Professor Joseph B. Justice, Analytical Search Committee Chair, Department of Chemistry, Emory University, Atlanta, GA 30322. Completed applications will be considered beginning November 15, 1992. Emory University is an Equal Opportunity/Affirmative Action Employer.

The Department of Biology at the University of Maryland and Emory University invites applications for a tenure-track position at the ASSISTANT PROFESSOR level. The position is for a VERTEBRATE NEUROBIOLOGIST. The second position is for a CELL PHYSIOLOGIST with a biochemical emphasis. Successful applicants must be committed to developing an active research and must demonstrate a demonstrable record of research accomplishments. The successful applicant will be expected to develop an independent research program with an emphasis on basic vertebrate neurophysiology.

Send curriculum vitae, bibliography, concise statement of research interests and future plans and the names of three references to: Dr. David Goltzman, Chairman, Department of Physiology, McGill University, 3655 Drummond Street, Montreal, Quebec, Canada H3G 1Y6.

While all eligible candidates are encouraged to apply, initial preference will be given to applicants who are Canadian citizens or permanent residents of Canada in accordance with Canadian Immigration regulations.

PLANT ECOLOGY/PARTHOLLOGY THE UNIVERSITY OF TENNESSEE

The Department of Botany invites applications for a tenure-track ASSISTANT PROFESSOR position in physiological plant ecology or population biology to begin in the Fall of 1993. Applicants must have a Ph.D. in plant physiology with postdoctoral experience preferred. The successful applicant will be expected to establish a vigorous externally funded research program involving field and laboratory studies. Teaching responsibilities will be expected. The position is expected to begin on November 16, 1992, and the search will remain open until the positions are filled. Interested applicants should submit curriculum vitae, the names, addresses, telephone and fax numbers of three references, and a concise statement of teaching and research interests and capabilities to: Professor B. W. Bradley, Search Committee Chair, Department of Botany, College of William and Mary, Williamsburg, VA 23187-8736. The position is an Equal Opportunity/Affirmative Action Employer. Women and members of minority groups are strongly urged to apply.

Faculty Positions in Microbiology, Physiology and Evolutionary Biology/Ecology

The Department of Biology at the University of Houston invites applications for three areas in the Department of Biological Sciences: ASSISTANT/ASSOCIATE PROFESSOR level. Applications are sought for one Microbiology/Immunology: strong experimental background in molecular biology or molecular genetics is most desired; (2) Physiology: animal physiologist who works at the organ or cellular level and interacts with existing faculty in cell/ developmental biology, or ecology; (3) Evolutionary Biology/Ecology: broad interests ranging from molecular evolution to community ecology involving either plant or animal systems. Each of these positions has a teaching component as well as a requirement to establish an independent, externally funded research program. Recent postdoctoral experience is required. Send curriculum vitae, statement of research interests, and names of three references to: Search Committee, Department of Biology, University of Houston, Houston, TX 77204, Attention: Professor Arthur Vallis, University of Wisconsin, 2000 Observatory Drive, Madison, WI 53706, Telephone: (608) 262-5747, FAX: (608) 262-2717. The University of Houston is an Equal Opportunity/Affirmative Action Employer.

ASSOCIATE/ASSISTANT PROFESSOR. tenure-track position available August 26, 1993 in Exercise Physiology. Candidate should have postdoctoral research experience in cellular/trigger systems function. Deadline for application is December 31, 1992. Applicant must contact Professor Arthur Vallas, University of Wisconsin, 2000 Observatory Drive, Madison, WI 53706, Telephone: (608) 262-5747, FAX: (608) 262-2717. The University of Wisconsin is an Equal Opportunity/ Affirmative Action Employer.
Director - National Institute
For Global Environmental Change

University of California

Applications and nominations are invited for the position of Director of the National Institute for Global Environmental Change (NIGEC). NIGEC's mission is to foster multidisciplinary research on global environmental and climate change focusing particularly on the Department of Energy's (DOE) research within the Federally-funded U.S. Global Change Research Program. The NIGEC office reports to the University of California, Office of the President and is responsible for administration and coordination of the global change research supported by NIGEC at five regional centers located at Harvard University (Northeastern), Indiana University (Midwestern), University of Alabama-Tuscaloosa (Southeastern), Tulane University (Southcentral), and the University of California Davis/Irvine (Western).

The Director will provide leadership and international visibility for the Institute, direct administration of the Institute affairs and staff, provide liaison to the DOE and to Congress, and promote planning, coordination, and integration of NIGEC-supported research within and among the regional centers. The University of California will provide the appropriate research environment to encourage the Director to foster a multidisciplinary research program. The Director is assisted by a Scientific Advisory Committee and National Technical Advisory Committee.

The successful candidate shall be or become a full faculty member of the University of California at the time he or she assumes the appointment. The position will be available on January 1, 1993. Nominations and applications should be submitted by December 1, 1992, to: Associate Vice President, Academic Affairs, Screening Committee E-92, UCOP, 300 Lakeside Drive, 9th Floor, Oakland, CA 94612-3550. EOE/AA

*** MOLECULAR MIMICRY ***

Terrapin Technologies, a private venture capital backed company, is a world leader in the systematic survey of molecular homology from the perspective of generic protein binding sites. We're using the new tools of combinatorial polymer libraries and have two fundamental patents issued with two more coming shortly. Benefits extend to a broad range of pharmaceutical and industrial chemistry applications.

Glutathione S-Transferase is our first drug target. This enzyme family provides a broad spectrum defensive system against toxic electrophiles, including many cancer drugs. We now have isozyme-specific inhibitors with promising cell culture activity as tumor-directed potentiators of chemotherapy.

We seek medicinal chemists, enzymologists, and cell biologists with the discipline and confidence to embark on a major adventure. Equal Opportunity Employer / Competitive compensation. Send résumé with cover letter to:

Human Resources
Terrapin Technologies
750-H Gateway Blvd.
So. San Francisco, CA 94080

POSTDOCTORAL SCIENTIST OPPORTUNITIES

SmithKline Beecham Pharmaceuticals, a world leader in pharmaceutical research, currently has the following postdoctoral scientist opportunities available:

Molecular Immunology

As part of an ongoing collaborative research team, the selected individual will study molecules involved in T cell-APC interactions, T cell activation and induction of energy and apoptosis. The research will involve a multi-disciplinary approach using both cellular and molecular techniques and in vitro and in vivo models of immune function. Qualified candidates will have a Ph.D. in Immunology, Molecular Immunology or a related discipline. It is essential to have a working knowledge of immunology, experience in molecular biology techniques and good communication skills. Publications in peer-reviewed journals is an advantage. Refer to Job #H0454.

Molecular Genetics

The successful candidate will be responsible for the study of the regulation and function of cytokines and their receptors using molecular biology techniques. Qualified candidates will have a Ph.D. in Molecular Biology, Biochemistry, Chemistry or a related discipline and experience in standard recombinant DNA techniques. Experience in construction and screening of cDNA and genomic libraries, expression of genes in bacteria and eukaryotic cells, tissue culture, RNA isolation, protein purification, site specific mutagenesis and/or binding studies is desired. Refer to Job #H0025.

Cardiovascular Pharmacology

The successful candidate will work with a team of scientists who are using histochemical and molecular biology techniques to explore mechanisms of disease processes and assess the effectiveness of new drug therapy. The scientist will perform mRNA analysis by northern blot and PCR and in situ hybridization of RNA/DNA of peptide mediators in tissues of normal and disease states, as well as utilize immunocytochemical techniques to identify peptides in tissues of normal and disease states.

Qualified candidates will have a Ph.D. in Biochemistry, Molecular Biology or a related discipline. Experience in RNA/DNA isolation and hybridization techniques or related histological disciplines and a biochemical background is desired. Ability to present data in internal and external scientific meetings and a proven publication record are required. Refer to Job #H0107.

We offer a competitive compensation/ benefits package, as well as a stimulating work environment in which to grow and excel. For confidential consideration, please send your C.V., indicating the appropriate job number, to: Senior Employment Administrator, SmithKline Beecham Pharmaceuticals, P.O. Box 1539, King of Prussia, PA 19406-0939. We are an Equal Opportunity Employer, M/F/DV.
ASSISTANT/ASSOCIATE DIRECTOR, MEDICINAL CHEMISTRY

ISIS Pharmaceuticals, a rapidly growing San Diego-based biopharmaceutical company, is seeking an organic chemist with strong management skills to lead one or more cross-functional project teams composed of those disciplines essential for the discovery and development of oligonucleotide drugs. Disciplines include therapeutic program directors; molecular biologists, biophysicists, biological, and analytical scientists; and business development and intellectual property professionals.

The successful candidate will have proven experience in recruiting, organizing and managing of project teams of synthetic, organic, medicinal and analytical scientists. At ISIS, you will manage one or more medicinal chemistry project teams composed of 4-6 Scientists/Senior Scientists in the area of peptide nucleic acids (PNA), uptake of oligonucleotides, cleaving oligonucleotides or other areas of mutual interest.

Our requirements include a PhD or equivalent in synthetic organic chemistry, or an appropriate related area, with at least 7 years experience post PhD degree. You will also have had significant work experience in a major pharmaceutical company, and have a background as an organic chemist with broad-based technical skills preferably including nucleic acid and/or oligonucleotide chemistry; and expertise in nucleic acids and peptide synthesis, purification and analysis; natural product synthesis; medicinal chemistry of antisense oligonucleotides; and molecular modeling.

ISIS Pharmaceuticals offers a competitive salary, excellent benefits and equity participation. If you are a strong team player, a proven manager with written and oral communication and presentation skills, please submit cover letter and CV to: Dr. P. Dan Cook, Director of Medicinal Chemistry, ISIS Pharmaceuticals, 2292 Parady Avenue, Carlsbad, CA 92008. Equal Opportunity Employer.

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ISIS PHARMACEUTICALS

Research Scientist - Population Modelling

Division of Fisheries, Hobart, Tasmania, Australia

We are seeking an experienced and innovative scientist to research the population dynamics of commercially important temperate shark stocks in Australian waters.

Studies are currently directed towards an investigation of the spatial structure of the fishery including quantification of movement and mixing rates from tagging experiments, the evaluation and development of a catch/effort database, refining models of catchability, and evaluation and risk analysis of management strategies. The appointee will play a major role in a multi-organisational research program on southern shark and in scientific and management discussions relevant to the fishery.

You will need a PhD or equivalent experience in quantitative zoology, fisheries biology, or similar, together with a strong background in the development of mathematical and computer models for biological systems.

You should have a superior record of innovative research achievements and the capacity to communicate research findings to a wide variety of audiences.

Dr. John Stevens telephone (international) 61-02-206353 can provide further information and our selection criteria. The position is indefinite (tenured) and assistance with relocation costs is provided.

Please send applications addressing the selection criteria and including details of your qualifications and experience and the names of two referees, quoting Ref. No. FC92/25 SCI to: The Human Resources Manager, CSIRO Division of Fisheries, GPO Box 1358, Hobart, Tasmania 7001, Australia by November 20, 1992.

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FACULTY POSITION IN BIOLOGICAL SCIENCES AT COLUMBIA UNIVERSITY

The Department of Biological Sciences at Columbia University invites applications from outstanding candidates with experience in cell and molecular biology for a full-time junior faculty position. Preference will be given to those with interests in the area of developmental biology, but candidates with other interests will also be given serious consideration. Candidates should forward their curriculum vitae, a summary of research interests, and arrange for letters from three references to be sent to:

Professor Carol Prives, Chairperson C & M Biology Search Committee Department of Biological Sciences 600 Fairchild Columbia University New York, NY 10027

The deadline for applications is December 15, 1992.

Columbia University is an Equal Opportunity/Affirmative Action Employer.
Research Scientists In Metabolic Disorders

The Miles Research Center (MRC) in West Haven is the US pharmaceutical research arm of Miles Inc., Pittsburgh. Located on a campus-like setting near the Long Island Sound, the MRC is being developed into a world-class research complex, which includes the new Institute of Metabolic Disorders.

CELL BIOLOGIST/PHYSIOLOGIST

A scientist is needed for the study of the basic mechanisms of glucose uptake and metabolism in a research program directed towards the identification of new therapeutics for the treatment of diabetes. Candidates must have two or more years' postdoctoral research experience in cell biology, biochemistry or cellular physiology. Experience in the area of glucose transport and in intracellular trafficking is desirable.

DIABETIC COMPLICATIONS SCIENTIST

A scientist is needed for the study of the basic mechanisms of non-enzymatic glycation in a research program directed towards the identification of new therapeutics for the treatment of diabetic complications. Candidate must have at least two years' postdoctoral research experience in biochemistry and physiology. Experience in the area of non-enzymatic glycation chemistry and in the clinical development of secondary complications of diabetes is preferred.

FACULTY POSITIONS

Plant Molecular Biologist

The Department of Molecular Genetics and Cell Biology invites applications for new faculty positions in the field of molecular biology of plants at the assistant professor level, although exceptional candidates at any level will be considered. We are especially interested in candidates using developmental genetic approaches to understand pattern formation, but the quality of the research program and its relationship to existing strengths in the Department will be the most important considerations. Complete applications with three letters of recommendation should be sent by December 1, 1992 to:

Dr. Anthony P. Mahowald
Chairman, Department of Molecular Genetics and Cell Biology
THE UNIVERSITY OF CHICAGO
920 E. 58th St.
Chicago, IL 60637

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OBESITY RESEARCHER

A scientist is needed to conduct biochemical-based research on the peripheral and central abnormalities associated with obesity. The successful applicant will have two or more years' postdoctoral experience in cell biology, biochemistry or neurochemistry. A background in obesity or neurobiology would be helpful.

IN VIVO PHARMACOLOGIST

We are seeking a Pharmacologist/Physiologist to establish animal models of diabetes and obesity. The applicants should have a PhD and a strong background in the regulation of carbohydrate metabolism. Experience in small animal surgery and biochemistry is preferred.

The candidates should demonstrate evidence of innovation and productivity by a strong publication record, and be able to work efficiently in a multidisciplinary team.

Miles Research Center offers highly attractive compensation commensurate with qualifications and a benefits package, including salary history, to: Dept. AAJA, Miles Inc., 400 Morgan Lane, West Haven, CT 06516. An Equal Opportunity Employer M/F/H/V.

FELLOWSHIP PROGRAMS

UNITED STATES-ISRAEL

BARD, The United States-Israel Agricultural R&D Fund, announces two Fellowship Programs promoting cooperative agricultural research.

The first program (Postdoctoral Fellowship), established in 1985, is between postdoctoral fellows from the United States and scientists from Israel and vice versa. Grant applicants should be citizens of either the U.S. or Israel, and should have fulfilled the requirements for a Ph.D. degree within the last three years (postdoctorates).

The duration of each Postdoctoral Fellowship is one year. Under certain conditions, a one year extension will be considered.

The Postdoctoral Fellowship grant will be paid directly to the grantee. Each grantee will be awarded a grant of $25,000, to cover travel expenses and living during the first year. If necessary, a small allowance, not to exceed $3,000, will be paid to the host institution to cover operating expenses for the proposed research.

The second program, (Research Fellowship) has been incorporated into the Program since 1988. U.S. citizens who are established research scientists in American non-profit research institutions, universities or federal and state agencies are eligible to become Research Fellows. Research Fellows will be funded for a period of 4 to 12 months with a grant of $25,000 (on a 12 month basis) to cover travel and modest living expenses.

Applications should reach BARD's Offices by January 1, 1993.

For information on application procedures please contact BARD offices at either:

BARD
USDA-ARS
Room 107, Bldg. 005, BARC-West
Beltsville, MD 20705
U.S.A.
Tel: 301-504-5605
Fax: 301-504-5298

BARD
The Volcani Center
P.O.B. 6
Bet Dagan
Israel 50250
Tel: 972-3-9655133
Fax: 972-3-9662506
ENVIROMENTAL BIOLOGY

The Department of Environmental, Population, and Organismic (EPO) Biology invites applications for a tenure-track position in invertebrate biomechanics. Preference will be given to candidates at the ASSISTANT PROFESSOR level, but all levels will be considered. Invertebrate biomechanics is the study of the organizational principles, structural forms, and movement processes of invertebrates. This area of study encompasses a wide range of research topics, including the mechanics of locomotion, hearing, olfaction, and other sensory systems, as well as the evolution of these systems. The successful candidate will be expected to develop a strong, competitive research program and to contribute to the University’s efforts to attract and retain a diverse student body.

Please send curriculum vitae, statement of research and teaching interests, and the names and addresses of four to five references to: Prof. Jane Green, Chair, Department of EPO Biology, University of Colorado, Boulder, CO 80309-0117. Applications will be accepted until the position is filled.

ASSISTANT PROFESSOR, TERRESTRIAL PLANT ECOLOGY

The Department of Biological Sciences, University of Arkansas, Fayetteville, is expanding its program in ecology and evolutionary biology by seeking candidates for a tenure-track position in plant ecology. The successful candidate will be expected to develop a strong, competitive research program and to contribute to the University’s efforts to attract and retain a diverse student body.

Please send curriculum vitae, statement of research and teaching interests, and the names and addresses of three references to: Dr. William McBride, Chair, Department of Biological Sciences, University of Arkansas, Fayetteville, AR 72701. Applications will be accepted until the position is filled.

EUKARYOTIC CELL BIOPHYSICS

The Department of Biological Sciences, University of Tennessee, Knoxville, is seeking applications for a tenure-track position at the ASSOCIATE PROFESSOR level. The successful candidate will be expected to develop a strong, competitive research program and to contribute to the University’s efforts to attract and retain a diverse student body.

Please send curriculum vitae, statement of research and teaching interests, and the names and addresses of three references to: Dr. Richard H. Haas, Chair, Department of Biological Sciences, University of Tennessee, Knoxville, TN 37996-0410. Applications will be accepted until the position is filled.
National Heart, Lung, and Blood Institute
National Institutes of Health

SCIENCE ADMINISTRATOR/BIOLOGIST
CHEMIST/MEDICAL OFFICER

The Thrombosis and Hemostasis Branch in the Division of Blood Diseases and Resource, is recruiting two Health Science Administrators, Medical Officers, Chemists or Biologists. The incumbents of these positions will be responsible for management of research grants and generation of reports and science initiatives on thrombosis, blood coagulation, platelets, endothelial cells, thrombolysis, etc. A Ph.D. in biological sciences/chemistry or M.D. (equivalent experience may be substituted for education) is essential. Excellent interpersonal communication skills in interacting with colleagues and the scientific community is highly desirable. Knowledge of the thrombosis/hemostasis area, the NIH grant process as a PI or member of a review group, programs and national policies in health research, and data processing is preferred. Appointments may be made at GS-12 to GS-14 grades ($38,861 - $80,087). Candidates may be eligible for a physician's comparability allowance. Also, these positions are open to qualified members of the Commissioned Corps, USPHS. For additional info, call Dr. Pan Ganguly, Chief, Thrombosis and Hemostasis Branch, (301) 402-2237. Candidates should submit a SF-171 and responses to selection criteria to Dr. Ganguly, Federal Building, Room 5C14, 7550 Wisconsin Avenue, Bethesda, Maryland 20892. Review of applications will begin immediately but positions will remain open until filled.

U.S. Citizenship Required
NIH is an Equal Opportunity Employer

Florida State University

High Resolution Electron Microscopy of
Macromolecules
Faculty Position
Florida State University
Program in Structural Biology and
Institute of Molecular Biophysics

The Program in Structural Biology at Florida State University invites applications for a full-time tenure track position in High Resolution Electron Microscopy of Macromolecules. Rank and salary are open and will be commensurate with experience. Academic appointment will be within the Department of Biological Science or Department of Chemistry. The candidate should have demonstrated expertise in the study of macromolecular structure and a well developed plan for independent research.

Florida State University has made a strong commitment to Structural Biology. Funding is provided by grants from the Lucille P. Markey Foundation and the State of Florida, and the University is renovating the 50,000 sq. ft. Institute of Molecular Biophysics to develop new laboratories designed and equipped for the study of the structure and activity of macromolecular systems. Over the next four years, the program will expand through the addition of seven new faculty members with research interests in Structural Biology. Extensive new instrumentation will be developed to provide these faculty with state of the art facilities.

In coordination with the National High Magnetic Field Laboratory, the Supercomputer Research Institute and the National Center for Macromolecular Research and Technology, unique facilities are available for NMR, computational biology and materials synthesis and research. A curriculum vitae, brief research plan, and a list of at least three references should be sent to:

Lee Makowski
Director
Program in Structural Biology and
Institute of Molecular Biophysics
Florida State University
Tallahassee, Florida 32306-3015

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Innovation & Efficiency

Using innovation to improve the efficiency of molecular biology research projects has been the cornerstone of Stratagene's development since our founding in 1984. With more than 200 employees and 300 products, Stratagene is now seeking candidates for the following positions.

POSTDOCTORAL SCIENTISTS

Candidates should possess a PhD with experience in molecular biology and genetic toxicology. Responsibilities include assisting in new technology development in the toxicology and genetic toxicology field, including involvement in study design and testing of transgenic system, e.g. BigBlue™ mouse and rat. An individual with experience in in vivo/in vitro mutation assays and general molecular biological techniques including PCR and DNA sequencing is desired. Publication in refereed journals and attendance at national scientific meetings will be strongly encouraged.

Another position requires a PhD with molecular biology experience for the development of epitope screening systems and DNA cloning and expression vectors. Experience with lambda and filamentous phage systems, PCR, DNA cloning and protein engineering are desired. Individual with extensive knowledge of prokaryotic systems preferred. Publication in refereed journals and attendance at national scientific meetings will be strongly encouraged.

We also seek a Postdoctoral Scientist with experience in cloning and expression of thermostable enzymes and extensive knowledge and practical experience in nucleic acid enzymology and general molecular biology techniques. Preference will be given to motivated candidates with a high level of proficiency in recombinant DNA technology with training in nucleic acid modifying enzyme biochemistry.

The above successful Postdoctoral Scientists are considered for full Staff Scientists positions.

MARKETING PRODUCT MANAGER

Responsible for facilitating the process of moving products from the laboratory to the marketplace and for continued promotion of existing products. Duties include competitive market analysis, technical writing, training and interfacing with company and customers, and interfacing with distributors. An BS/MS or equivalent and strong practical background in molecular biology are required. Experience in cell biology is also helpful. Background in sales/marketing preferred.

Stratagene, a Stratagene subsidiary, is looking for exceptional candidates to fill several positions.

POSTDOCTORAL SCIENTISTS
AND RESEARCH ASSOCIATES

Research will be performed in the use of cutting-edge molecular biology techniques in immunology leading to human therapeutic applications. [See Proc. Natl. Acad. Sci. (USA) 87, 8055-8059 (1990) and J. Immunol. 148, 2918-2922 (1992)] Research experience required in molecular biology, especially bacteriophage vectors, PCR strategies, and cDNA library cloning. Preference will be given to innovative individuals who also have some expertise in protein design and/or immunology. Publication in refereed journals and attendance at national scientific meetings will be strongly encouraged.

Stratagene and Stratagene offer attractive and stimulating work environments in beautiful San Diego, as well as competitive salaries, incentive and benefits programs. All qualified candidates are invited to send resume and a letter specifying the position of interest to: Stratagene, Attn: Professional Staffing, 11099 N. Torrey Pines Rd., La Jolla, CA 92037. AA/EOE.

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"MINORITIES IN SCIENCE... A SEARCH FOR SOLUTIONS"

13 November Issue
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In a first-time cover story, the 13 November issue of Science explores the complex problems and obstacles facing minorities as they work and compete in the scientific community.

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Space Reservation Deadline: Tuesday, October 27
POST-DOCTORAL POSITIONS

TOGETHER, the people of Boehringer Ingelheim Pharmaceuticals, Inc. have achieved a respected position for the Company in the United States health care environment. We have made a beginning. Now we dedicate ourselves to pushing back the boundaries of science in the search for pharmaceutical products to treat cardiovascular, pulmonary, viral and immune-mediated and other selected diseases.

We are currently seeking candidates for the following Post-Doctoral positions in our Drug Discovery Group:

PROTEIN CRYSTALLOGRAPHY — The successful candidate will participate on research projects including crystal structure studies of inhibitor complexes of HIV reverse transcriptase, HIV protease as well as several other proteins. The crystallographic facility includes a RAXIS imaging plate detector on a Rigaku RU200, Convex C220, ESV and several other workstations. Requires a Ph.D. with experience in protein purification and crystallization, data collection, protein structure determination and refinement.

COMPUTATIONAL DRUG DESIGN — The successful candidate will participate in several projects supporting medicinal chemistry teams as well as interact with x-ray crystallography and NMR spectroscopy groups. Requires a Ph.D. in Computational Medicinal Chemistry with experience using computational chemistry methodologies including molecular mechanics, molecular dynamics and quantum mechanics calculations. Expertise in small molecules modeling, 2D/3D-QSAR and/or small molecules by biopolymer interactions is highly desirable. Strong experience using the major software packages, SYBYL and QUANTA/CHARMM is preferred.

Our expanding facilities are located on a campus like setting in a beautiful area of western Connecticut. We have state-of-the-art resources, a strong commitment to research and a dynamic, people oriented organization. Boehringer offers a competitive salary and benefits package and relocation assistance to qualified candidates.

For consideration, please forward your CV, indicating position of interest to: Dept. MH-PD-NC-1S, Boehringer Ingelheim Pharmaceuticals, Inc., 900 Ridgebury Road, PO. Box 366, Ridgefield, CT 06877-0368. We are an equal opportunity employer m/f/d/v. As a progressive health care company, we have a nonsmoking environment.

BOEHRINGER
INGELHEIM

EMORY UNIVERSITY
FACULTY POSITIONS IN POPULATION BIOLOGY

As part of a major expansion, the Department of Biology will make several tenure-track appointments in the areas of population biology, ecology, and evolution. Presently, available positions are at the assistant professor level, although appointment at a higher rank may be considered in exceptional circumstances. Preference will be given to candidates engaged in theoretical and/or experimental studies of the population biology of microbes and the population biology and evolution of host-parasite interactions and infectious disease. A Ph.D. degree and postdoctoral experience are required. Applicants should provide evidence that they will develop strong independent research programs. Applications from minority and female candidates are strongly encouraged.

Emory University is in a suburban section of Atlanta. Biology is housed in a new, well-equipped and well-equipped building shared with the basic science departments of the School of Medicine. Emory has a strong faculty in microbiology, molecular biology, immunology and epidemiology as well as several physical anthropologists and historians working on aspects of infectious diseases. The physical proximity of the Centers for Disease Control (CDC) and Emory's Yerkes Primate Center and the close relationship with the Carter Center provide a wealth of opportunities for research collaborations. The successful candidates will participate in the development of an interdisciplinary graduate program in population biology, ecology and evolution.

Please send a vitae, reprints of publications, a description of current research and of future research plans, and the names and addresses of four referees to: Dr. Bruce Levin, Chair, Population Biology Search Committee, Department of Biology, Emory University, Atlanta, GA 30322. Tel (404) 727-2926, Fax (404) 727-2880, E-MAIL BIOBRL@EMUVM1.CC.EMORY.EDU. Review of applications will begin on November 15, 1992. Emory University is an Affirmative Action/Equal Opportunity Employer.

Boehringer
Ingelheim

PROJECT MANAGER
MOLECULAR BIOLOGY

SmithKline Beecham Animal Health is simply better... in products, in people and performance. Our commitment to excellence has enabled us to become one of the leading veterinary healthcare organizations worldwide. Presently, we have a unique opportunity for a seasoned Project Manager.

In this key, highly challenging role, you will manage the cloning and expression of existing antigens and new recombinant vaccine antigens. You will optimize the expression of cloned antigens in a variety of prokaryotic and eukaryotic expression systems through scale-up development. The successful professional will have a Ph.D. in Molecular Biology or Biochemistry, at least 4 years post doctoral experience in molecular biology, and excellent communication skills. Demonstrated expertise in eukaryotic gene expression with experience in yeast, baculovirus or mammalian cell expression systems, and the ability to lead a multi-disciplinary project team are also required.

SmithKline Beecham offers an excellent salary and benefits package within a professionally supportive work environment. To be considered for this exceptional position, send your C.V. in confidence to:

SmithKline Beecham
Animal Health
601 West Cornhusker Hwy.
Lincoln, NE 68521

Equal Opportunity/Affirmative Action Employer
**POSITIONS OPEN**

**EVOLUTIONARY ANTHROPOLOGIST/BIOLOGIST**

EMORY UNIVERSITY, Departments of Anthropology and Biology, seeks a joint, tenure-track, ASSISTANT PROFESSOR position for an evolutionary anthropologist/biologist. Preference will be given to anthropologists or biologists with active research programs on primate, molecular evolution, or behavioral ecology of human populations. Candidates must be able to interact effectively with faculty in both Anthropology and Biology programs, have a strong research record, and be committed to quality teaching at the undergraduate and graduate level in both Anthropology and Biology departments. Applications are due: December 31, 1992. Send curriculum vitae, description of current and planned research and teaching interests, and the names of four referees to:

Dr. Carol M. Worthman or Dr. Mark Ridley Search Committee Chairs Department of Anthropology Emory University Atlanta, GA 30322

Emory University is an Equal Opportunity/Affirmative Action Employer.

**VIROLOGIST ASSOCIATE PROFESSOR**

Applications are invited for a tenure-track associate professor position in the Department of Veterinary Pathobiology to work with an established group of investigators studying feline immunodeficiency virus. The candidate must have a Ph.D. degree, and experience and publications in virology and viral immunology. Preference will be given to those candidates who are working with lymphomas. It is also expected that any applicant will have a proven record in acquiring extramural funding and be an active participant in the training of graduate students. Duties will include participation in teaching and research. Interested persons should send curriculum vitae, a statement of research interests, and three letters of recommendation before January 1, 1993 to:

Ellen W. Collisson, Ph.D. Search Committee Chairperson Department of Veterinary Pathobiology College of Veterinary Medicine Texas A&M University College Station, TX 77843-4467

Texas A&M University is an Equal Opportunity Employer.

**FACULTY POSITIONS IN MOLECULAR PHARMACOLOGY**

UNIVERSITY OF SOUTHERN CALIFORNIA School of Pharmacy

Two tenure-track ASSISTANT/ASSOCIATE PROFESSOR positions exist in the Department of Molecular Pharmacology and Toxicology. Candidates must have Ph.D. degree in Pharmacology or related discipline, postdoctoral experience, and strong commitment to excellence in research and teaching in the professional and graduate programs. Preference will be given to candidates with demonstrated research accomplishment in growth factor/neurotransmitter/neuropeptide receptor pharmacology using biochemical and/or molecular approaches. Candidates will be expected to maintain an independent, externally funded research program. Send curriculum vitae, a letter of recommendation, brief statement of research interests, and names of three references to:

Dr. Timothy Chan, Chairman Department of Molecular Pharmacology USC School of Pharmacy 1985 Zonal Avenue Los Angeles, CA 90033

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**POSITIONS OPEN**

**FACULTY POSITION MICROBIOLOGY**

University of Pittsburgh

The Department of Infectious Diseases and Microbiology of the Graduate School of Public Health at the University of Pittsburgh is seeking outstanding applicants for an ASSOCIATE/ASSISTANT PROFESSOR in the area of mammalian virology, viroimmunology. Can research is committed to the continuing development of a strong multidisciplinary program wherein molecular biology, immunology, and the epidemiology of viral pathogens are integrated with collaborating scientists. Candidates should have a Ph.D., M.D., or equivalent, and have sufficient experience to establish an independent research program which has strong interactions with viroimmunology with clinical medicine and public health. This is a full-time tenure-track position. The salary and proposed start date are negotiable. Send curriculum vitae and names of three references to: Charles R. Rinaldo, Jr., Ph.D., Chairperson, IDM Search Committee, A417 Crabtree Hall, University of Pittsburgh, Graduate School of Public Health, Pittsburgh, PA 15261, Telephone: (412) 624-3112. To ensure full consideration of all applicants, applications will be reviewed until the position is filled. The University of Pittsburgh is an Affirmative Action/Equal Opportunity Employer.

**RESEARCH ASSISTANT PROFESSOR WOUND AND BONE HEALING**

The Division of Plastic Surgery at UMDNJ-Robert Wood Johnson Medical School, New Brunswick, New Jersey seeks a scientist to direct its research efforts in wound and bone healing. An excellent opportunity exists to develop in these areas and in related aspects of biomaterials research. We are seeking qualified individuals having proven research activity, possessing the ability to undertake clinically relevant research. Requires a Ph.D. degree and experience in a related area. The position offers a competitive salary, a start up fund, and potential for independent investigation. Applications will be accepted until the position is filled. Send curriculum vitae, a statement of research interests, and three letters of recommendation to:

Gregory Borah, M.D., Chief, Division of Plastic Surgery, UMDNJ-Wood Johnson Medical School, One Robert Wood Johnson Place, CN19, New Brunswick, NJ 08903-0019. UMDNJ, New Jersey/University of the health sciences, is an affirmative action/equal opportunity employer.

**ASSISTANT PROFESSOR OF PHYSIOLOGY**

Applications invited for physiology faculty position effective July 1993. Must have a doctoral degree; broad teaching experience highly desirable. Submit curriculum vitae and names of three references in writing to: H. Jay Lyons, Ph.D., Chairman, Department of Physiology, Southeastern University of the Health Sciences, 1750 N.E. 168th Street, North Miami Beach, FL 33162.

**CHEMISTRY FACULTY POSITIONS, ASSISTANT/ASSOCIATE PROFESSOR ranks, tenure-track, beginning fall 1993:** 1) Toxicologist (Position F9307) with strong chemistry or biochemistry background; 2) Polymer Chemist (Position F9306) with preference to applicants who also can teach organic and/or instrumental analysis. Minimum Master's degree plus 18 hours in appropriate area of specialization for Assistant Professor rank; Ph.D. strongly preferred. Ph.D. required for Associate Professor rank. Evidence of excellence in both teaching and research necessary. Responsibilities include teaching chemistry courses at introductory level as well as undergraduate and graduate courses (M.S., Ph.D. level) in area of specialization and developing a research program. Send letter of application with names of three references, resume, undergraduate and graduate transcripts, statement of teaching philosophy and interests, and statement of research interests and equipment requirements. Have three letters of recommendation sent to: Position # (see above), 204 King Hall, Eastern Michigan University, Ypsilanti, MI 48197. Deadline for receipt of applications is December 15, 1992. All women and members of minority groups are strongly encouraged to apply and to identify themselves. Affirmative Action/Equal Opportunity Employer.

**POSITIONS OPEN**

**HARVARD UNIVERSITY BIOETHICS OFFICER AND PROGRAM MANAGER**

Harvard University seeks candidates for the position of Bioethics Officer and Program Manager. This position has complete responsibility for the management, development and implementation of bioethics programs for Harvard University. Responsibilities include but are not limited to the following: ensure the program maintains strong programmatic and clinical ethics programs in dealing effectively with complex bioethics issues. This position requires: advanced degree in Microbiology or related discipline required (Ph.D. preferred); five to 10 years of bioethics management experience in an academic or research setting preferred. Please send resume to: Chair of the Bioethics Committee, Harvard University, 46 Oxford Street, Cambridge, MA 02138.

**BIOLOGY CHAIRPERSON—West Georgia College**

Chair of the Biology Department. A candidate must have considerable interpersonal skills, Ph.D. in a Biological Science and commitment to quality undergraduate teaching and research in a state-supported liberal arts program. The position which begins July 1, 1993 is a 12-month appointment; rank may be at the Associate or Full Professor level; salary negotiable with qualifications. The department is composed of 10 faculty and 15 majors. Its strengths are in cell and molecular biology. Please send curriculum vitae, publications, letters of recommendation and a statement of teaching and administrative philosophy to: Chair, Biology Department, West Georgia College, Carrollton, GA 30118. Close date January 15, 1993 or until filled. WGC is an Equal Employment Opportunity/Affirmative Action Employer.

**PROJECT MANAGER**

The Center for Aquatic Ecology of the Illinois Natural History Survey has a full-time, UNPA-funded position to develop a computer model to predict growth of zebra mussels and their potential effects on food webs in North American rivers. The model will be designed to be used in the laboratory and for field use and will be linked to a database and state-of-the-art computer. To ensure full consideration, applications should be received by 80 November 1992. For further information contact: Ms. Jacqueline Sanders, Personnel Officer, Illinois Natural History Survey, 607 East Peabody Drive, Champaign, IL 61820, Telephone: (217) 244-7790, An Equal Opportunity/American Disabilities Act Employer.

**PHARMACOLOGIST: ASSOCIATE MANAGER, Clinical Affairs:** Responsible for planning and managing clinical programs for broad drug-specific or disease-specific disciplines. Coordinate interdepartmental activities involved in building protocol design and approval, operational support, bio-statistical design, medical guidance and government regulatory submissions. Interface with Marketing and Professional services divisions. Represent Clinical Affairs division on Product Development team. Train and supervise Clinical Research Associates in management/conduct of studies and projects. Negotiates grants and track budgets. Participate in interim and final report preparation for FDA submissions. Five years in job offered or five years in pharmaceutical research laboratories environment which includes at least two years in job offered. Ph.D. in Pharmacology. Salary $5834 per month. Job site/telephone: Thousand Oaks, CA. Send this ad with resume to: Head and/or BJ 34029, P.O. Box 9560, Sacramento, CA 95823-0560, not later than November 2, 1992.

**HEAD, BIOBEHAVIORAL HEALTH**

To provide leadership for a multidisciplinary faculty and student focused on research, teaching, and service in biological, psychological, behavioral, and environmental variables as they relate to the development of states of health and illness and to behavioral health and illness. The position is housed as a faculty position in the School of Nursing. The Head functions as a Department Chair, providing administrative leadership for research/teaching, program, and faculty development. The Head is expected to serve on University, College, School, and Department committees and to actively support the process of program and research changes and initiatives. Applicants are encouraged to apply and to identify themselves. Affirmative Action/Equal Opportunity Employer.
Oncogene Science has developed a sophisticated high throughput drug screening laboratory which utilizes industry leading robotic systems in drug discovery programs aimed at developing novel classes of therapeutics for the treatment of cancer, atherosclerosis, osteoporosis, asthma and diabetes.

Program Manager, Drug Discovery

The Company seeks an experienced research and development manager to lead a group of approximately 10-12 people in the design, implementation, and execution of high throughput drug screens. The ideal candidate will have at least 4 years' experience at managing screening programs in the pharmaceutical industry, a strong background in assay automation and excellent organizational and presentation skills.

Oncogene Science is strategically located on Long Island with ready access to major academic institutions in the New York City metropolitan area. The Company offers a competitive salary and outstanding benefits package. Qualified applicants may forward their resumes, including a list of publications and references, to: Oncogene Science, Inc., 106 Charles Lindbergh Blvd., Uniondale, NY 11553, Attn: CG.

An Equal Opportunity Employer.

Position: ASSISTANT PROFESSOR OF BIOCHEMISTRY

Research interests and competence: This position will be filled by an individual with training and research interests in Molecular Mechanisms of Development utilizing any one of several well-defined developmental systems. The particular focus of the research should be on the functions of proteins in such systems. Expertise in protein chemistry, enzymology as well as the methodologies of molecular genetics is essential.

Qualifications: Candidates must have a Ph.D. or M.D. degree and at least two years of postdoctoral experience in this area of research. There must be strong recommendations relative to research ability and teaching competence. In addition, there must be demonstrated productivity and evaluations of the candidate which give clear indications of an ability to initiate and develop an effective, independent research program. The candidate should also be articulate and able to perform effectively as a lecturer and in more informal teaching situations at the medical and graduate student as well as postdoctoral level.

Applications: Interested individuals should send the following information to Philipp Strittmatter, Department of Biochemistry, University of Connecticut Health Center, Farmington, CT 06032.

1. A complete curriculum vitae and bibliography.
2. Three or more letters of recommendation bearing upon the points above.
3. A brief description of future research interests, objectives and experimental plan.
4. If available, reprints of most significant work.

An Affirmative Action/Equal Opportunity Employer M/W/H.

SCIENTIST

Drug Metabolism and Pharmacokinetics

The Animal and Exploratory Drug Metabolism Department at Merck Research Laboratories has an opening for a highly motivated B.S./M.S. chemist/biochemist who is interested in pursuing a career in drug metabolism and pharmacokinetics.

The position requires an M.S. in Chemistry/Biochemistry (or a related field) with 1-2 years of research experience, or a B.S. in Chemistry/Biochemistry with at least 3 years of research experience or equivalent. The successful candidates will be responsible for in vivo and in vitro metabolism studies of new drugs. The candidate should have working knowledge in drug metabolism and pharmacokinetics with demonstrated strength in modern analytical techniques such as HPLC and spectroscopy. Experience in the following areas is highly desirable:

- Development of bioanalytical methods to quantitate drugs in biological fluids
- Isolation, purification and characterization of metabolites
- Handling of radiolabeled chemicals
- GLP studies

Merck Research Laboratories are located in Rahway, NJ, approximately 25 miles from New York City. Our salaries, benefits, and growth potential are excellent. For consideration, send your resume with the names of three references to Randall J. Bradford, Merck & Co., P.O. Box 2000, Ad #128, Rahway, New Jersey 07065, R80-A3.

MERCK

Merck & Co., Inc.

NRC - CNRC

NRC – Canada’s top R&D organization – helps its industry partners become stronger global competitors. Currently, NRC’s Plant Biotechnology Institute is looking for those rare people who can help further our record of excellence.

Research Officer (Saskatoon, Saskatchewan)

The Plant Biotechnology Institute of the National Research Council of Canada in Saskatoon has a continuing staff position for a Research Officer. The scientist will work in the legume biotechnology group on the development and use of transgenic plants. Major duties will be the planning, managing and reporting of independent research within the context of an integrated group project; but participation in overall project planning and promoting interaction between the project and external partners is expected. Duties also include supervision and evaluation of laboratory personnel.

Applicants must have a Ph.D. in plant biotechnology or related discipline, with emphasis on plant molecular genetics. A good understanding of molecular biology, biochemistry and genetics in relation to crop improvement and a strong record of publication are expected. Experience in production of transgenic plants and in molecular identification of plant genes or regulation of gene expression in plants is required. The position requires high levels of scientific creativity and judgment, the ability to function both individually and as a team member or leader and good skills in verbal and written communication in English.

SALARY RANGE: Commensurate with qualifications.

Ceux qui désirent recevoir une copie de cette annonce en français peuvent communiquer avec l’agent de dotation à l’adresse ci-dessous.

Apply in writing, before November 30, 1992, giving complete details of education and experience to: The Recruitment Section, National Research Council of Canada, Ottawa, Ontario, K1A 0R6. In reply, please quote PB-91-16 SCI.
ThE SCHOOL FOR FIELD STUDIES (in conjunction with Northeastern University)—SUMMER FACULTY POSITIONS open for the following programs: Baja California, Mexico; Amazonia, Brazil; and the Galapagos Islands, Ecuador. Positions available to teach courses in areas of basic and applied biology, anthropology, archaeology, and indigenous cultures. Applications will be considered in all fields of biology. For information, contact: Edward S. Dubois, School of Field Studies, University of the Southwest, 800 University Blvd., St. Paul, MN 55102-1055. Deadline: June 15, 1992.

MORPHOLOGICAL BIOLOGIST—RESEARCH SCIENTIST. Position available immediately to study B cell lymphokine and B cell lymphokine receptor expression. Specific requirements include a strong background in molecular biology including DNA cloning and sequencing, vector construction, point mutations and PCR. Salary: $35,000 to $40,000. For further information, contact: Leah Pauk, The Ohio State University, 1598 West College Avenue, Columbus, OH 43210. Deadline: 11/30/92.

POSTDOCTORAL POSITION IN MOLECULAR AND CELLULAR BIOLOGY. A postdoctoral position is immediately available to study B cell lymphokine secretion and B cell lymphokine receptor expression. Applicants should have experience in cell and molecular biology techniques. For more information, contact: Leah Pauk, The Ohio State University, 1598 West College Avenue, Columbus, OH 43210. Deadline: 11/30/92.

POSTDOCTORAL POSITION available immediately for electrophysiological studies on command cells and central pattern generator neurons which regulate locomotion in Aplysia. Competitive salary and benefits, and excellent research environment and support. Experience in intracellular electrophysiology preferred. Send curriculum vitae and names of references to: Dr. James Blanchard, Marine Biological Laboratories, University of Texas Medical Branch, 200 University Boulevard, Galveston, TX 77555-0843. UTMB is an Equal Opportunity/Affirmative Action Employer. UTMB'sopherone/Deed Free workplace. UTMB hires only individuals authorized to work in the United States.
FACULTY POSITION IN EPIDEMIOLOGY
Department of Biomedical and Environmental Health Sciences
School of Public Health
University of California, Berkeley 94720

The Department of Biomedical and Environmental Health Sciences invite applications for a tenure-track position in epidemiology at the Assistant Professor level, beginning July 1, 1993, pending budgetary approval. The successful candidate is expected to develop and maintain an active research program and to participate in the teaching program, including the supervision of doctoral thesis research. The area of specialization within epidemiology of the successful candidate is less important than the candidate’s potential to develop an independent research program.

Candidates should have a doctoral, medical, or equivalent degree and evidence of research experience in epidemiology.

Applicants should send their curriculum vitae and the names and addresses of three references to:

Professor Arthur Reingold
Chair, Search Committee for Epidemiologist
Department of Biomedical & Environmental Health Sciences
School of Public Health
University of California
140 Warren Hall
Berkeley, CA 94720

Deadline for application is December 31, 1992.

THE UNIVERSITY OF CALIFORNIA IS AN EQUAL OPPORTUNITY, AFFIRMATIVE ACTION EMPLOYER.

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ANIMAL PHYSIOLOGIST
Rhodes College

The Biology Department of Rhodes College invites applications for a tenure track position to be filled at the Assistant Professor level beginning in August 1993. Applicants whose research interests are in the area of Neuroscience are especially encouraged, however all qualified applicants will be considered. Teaching responsibilities will include Animal Physiology, a course in the area of interest, and involvement in the Introductory Biology series. Candidates must have the Ph.D. degree, a strong interest in teaching at the undergraduate level and a commitment to continuing research.

Applicants should submit transcripts, curriculum vitae, a statement of teaching philosophy and research interests and have 3 letters of recommendation sent by December 16, 1992 to:

Dr. John Olsen, Chairman
Department of Biology
Rhodes College
Memphis, TN 38112

Rhodes College is a highly selective College of Liberal Arts and Sciences with 1400 students and a student/faculty ratio of 12:1. Located in midtown Memphis, Rhodes College and the nine member Biology Department enjoy close ties with Memphis State University, U.T. Memphis Medical School, and St. Jude Children’s Research Hospital.

Rhodes College is an Equal Opportunity Employer and encourages applications from qualified minority and women candidates.

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CHAIRPERSON
Department of Biochemistry
Duke University Medical Center

Duke University Medical Center is seeking candidates for the position of Professor and Chairperson of the Department of Biochemistry. Responsibilities include providing leadership for research and teaching activities in the School of Medicine. Minimal qualifications include an earned doctorate in a related discipline, a distinguished record of scholarship, administrative experience in an academic environment, and a demonstrated ability to work collaboratively in a university and academic medical center and with external constituencies.

The position will be available in the Summer of 1993. Applicants should send a copy of their curriculum vitae with references and other credentials to: Biochemistry Search Committee, Box 3781, Duke University Medical Center, Durham, NC 27710.

Consideration of applications will begin on February 1, 1993 and continues until the position is filled.

Duke University Medical Center
Duke University is an Equal Opportunity/Affirmative Action Employer.

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ZymoGenetics
Seattle, WA

SCIENTIST (Diabetes Research)

ZymoGenetics, a Seattle based company making important strides in the development of therapeutic products aimed at diabetes, tissue repair, and coagulation disorders has an exciting opportunity available for a Scientist experienced in Diabetes research.

We are seeking a Scientist to join in the investigation of physiologic glucose control and innovative molecular targets for the therapy of Diabetes Mellitus. The preferred candidate will have a PhD in the sciences or MD, and 2+ years related experience.

ZymoGenetics, a subsidiary of NOVO NORDISK, offers the excitement of a research and development environment characteristic of a small company with the scope and stability of a large pharmaceutical corporation through NOVO NORDISK, the world’s largest manufacturer of insulin. We also offer intellectual challenge, state-of-the-art facilities and a generous benefits package.

Please apply by sending your CV to:

ZymoGenetics, Inc.,
Attn: Human Resources, #12N192
4225 Roosevelt Way NE
Seattle, WA 98105

ZymoGenetics is an Equal Opportunity Employer.

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FACULTY POSITIONS
Developmental and Cell Biologists

The Department of Molecular Genetics and Cell Biology invites applications for new faculty positions in the field of developmental and cell biology at the assistant professor level, although exceptional candidates at any level will be considered. The quality of the research program and its relationship to existing strengths in the Department will be the most important considerations. Complete applications with three letters of recommendation should be sent by December 1, 1992 to:

Dr. Anthony P. Mahowald
Chairman, Department of Molecular Genetics and Cell Biology
THE UNIVERSITY OF CHICAGO
920 E. 58th St.
Chicago, IL 60637

An Affirmative Action Equal Opportunity Employer
(Women and members of minority groups are strongly encouraged to apply)
Quality Biotech Inc. is a leading, international biotechnology service company engaged in contract research and biosafety testing for the biopharmaceutical industry. As part of our expansion, the following openings are available:

**Virology**

**DIRECTOR**—Requires a PhD, 5-10 years of relevant experience, a record of independent scientific leadership, an accomplished supervisory background and excellent communications skills.

**RESEARCH ASSOCIATES**—Requires MS/BS, 2-4 years of academic/industrial experience and a strong background in virology/cell biology.

The successful candidates will be involved in the development and implementation of novel assays for the detection of retroviral and other contaminants in cell substrates and products using state-of-the-art techniques such as PCR, DNA hybridization, marker rescue assays, etc.

Quality Biotech is located in the Greater Philadelphia region - an area rich in scientific, cultural and recreational diversity. We offer excellent opportunities for professional growth, a competitive salary, relocation assistance, medical and dental benefits, tuition reimbursement and 401(k) and flex benefit plans. Please send resume and salary history to: Quality Biotech Inc., Human Resources-AL, 1667 Davis Street, Camden, NJ 08104. An Equal Opportunity Employer

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**I Enzytech**

At Enzytech, Inc., our focus is on the discovery, development and production of novel drug delivery systems. Our commitment to science starts by discovering talented employees to join our research team in an environment which fosters the exploration of new ideas. If you thrive on research and the exciting interchange of knowledge, it’s time for you to become part of our outstanding team of scientists and researchers.

**Research Scientist**

**Pharmaceutical Sciences**

We are currently seeking a talented professional to plan, organize and execute projects in the research and development of controlled release drug delivery systems. This includes bench level experimentation and collaboration with process development and clinical manufacturing.

Requirements include a PhD with 0-3 years’ experience in chemistry, biophysics, chemical engineering or related field. A strong background in analytical methods for polymers and low molecular weight organic molecules is essential. Excellent problem solving and communications skills are a must.

We offer an excellent salary and benefits package including medical, dental, life insurance, 401(k), and tuition reimbursement. For confidential consideration, please send resume to: Human Resources Dept., Enzytech, Inc., 64 Sidney Street, Cambridge, MA 02139. An Equal Opportunity Employer.

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**FACULTY POSITION IN NEUROBIOLOGY**

**COLUMBIA UNIVERSITY**

The Department of Biological Sciences of Columbia University invites applications from outstanding candidates for a full time junior faculty position in neurobiology. The search will focus on individuals examining the nervous system at the cellular and molecular levels.

Candidates should forward their curricula vitae, a summary of research interests, and three letters of reference to:

Darcy B. Kelley
Chairperson
Neurobiology Search Committee
Department of Biological Sciences
600 Fairchild
Columbia University
New York, NY 10027

The deadline for applications is December 15, 1992

Columbia University is an Equal Opportunity/Affirmative Action Employer

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**Director**

**Cell Adhesion/Extracellular Matrix Biology Laboratory**

The University of Alabama at Birmingham (UAB) has committed substantial financial and space resources to establish a major new Laboratory to study the role of cell adhesion molecules and the extracellular matrix as they relate to fundamental questions in biology. This will be a multi-disciplinary Laboratory which will interact with a significant number of established investigators in several UAB departments including the Department of Biochemistry and the Department of Medicine’s divisions of Oncology and Clinical Immunology and Rheumatology. The Laboratory will occupy 9,000 square feet of newly renovated Laboratory and office space and accommodate up to five (5) full-time established investigators and their support staff. The duties of the Director will be to lead the recruitment of other established investigators to the Laboratory, coordinate research activities within the Laboratory and between it and other extracellular matrix research personnel within The University of Alabama at Birmingham. This is a tenured position and will include an appointment as a Senior Scientist in the UAB Arthritis and Musculoskeletal Diseases Center. Qualified candidates will hold a PhD and/or a MD degree, have a successful history of competing at the national level for peer-reviewed funding and publication of the results of their research, and have demonstrated scientific leadership capabilities.

UAB is a rapidly growing institution with many opportunities in medical research at the fundamental science level, as well as opportunities for interaction between basic scientists and clinical investigators. Birmingham has a comfortable climate and offers an affordable and cosmopolitan lifestyle. UAB is an Affirmative Action/Equal Opportunity Employer.

Send curriculum vitae with cover letter to:

John D. Mountz, MD, PhD
Chairman
Search Committee
LHR Building, Room 405
The University of Alabama at Birmingham
Birmingham, AL 35294-0007

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**CONCORDIA UNIVERSITY**

**Department of Chemistry and Biochemistry**

**Tenure-Track Assistant Professor in Bioanalytical Chemistry**

The Department of Chemistry and Biochemistry, Concordia University, invites applications from qualified individuals for a tenure-track appointment at the level of Assistant Professor in Bioanalytical Chemistry to commence August 1, 1993. The successful candidate will have a Ph.D., as well as postdoctoral experience, in Bioanalytical Chemistry or in Biochemistry with strong interests in analytical research, and will be expected to establish an active research program in an area related to Bioanalytical Chemistry. The candidate will be involved in teaching Analytical and Bioanalytical Chemistry at both the graduate and undergraduate levels. The Department of Chemistry and Biochemistry is located on Concordia's urban campus in cosmopolitan downtown Montreal, an area which includes a number of international pharmaceutical and biotechnological organizations, as well as the Biotechnology Research Institute of the National Research Council of Canada. English is the principal language of instruction.

Applications should include a curriculum vitae, a summary of research interests, a detailed research proposal, and an indication of start-up requirements. Candidates should arrange to have three letters of recommendation sent directly to the Chair. Applications should be addressed to Prof. Raymond Zenius, Chair, Analytical Chemistry Search Committee, Department of Chemistry and Biochemistry, Concordia University, 1455 de Maisonneuve Blvd. West Montreal, Quebec, H3G 1M8. The evaluation of candidates will be ongoing until the position is filled. In accordance with Canadian Immigration practice, priority will be given to Canadian citizens and Landing Immigrants. Concordia University is committed to employment equity, and encourages applications from women, Aboriginal peoples, visible minorities, and disabled persons.

All things being equal, women candidates shall be given priority.
FACULTY POSITIONS
UCR/UCLA PROGRAM
IN BIOMEDICAL SCIENCES

The UCR/UCLA Program in Biomedical Sciences, which offers an accelerated M.D. curriculum jointly between the University of California, Riverside (UCR), and the University of California, Los Angeles (UCLA), School of Medicine, has two tenure-track openings at the level of ASSISTANT PROFESSOR in the Division of Biomedical Sciences at UCR available July 1, 1993.

NEUROSCIENCES. Primary teaching responsibilities will be in cellular neurobiology, including electrophysiology, for first-year medical students.

PHYSIOLOGY. Primary teaching responsibilities will be in cardiovascular, respiratory and gastrointestinal physiology for first-year medical students.

Applicants must have a Ph.D. and/or M.D. degree, postdoctoral research experience, and must be able to develop a strong independent research program. The specific area of research is open, but preference will be given to cell biologists or physiologists who are using molecular and cellular techniques in their studies. Applicants should also have a strong commitment to teaching both medical and graduate students. Prior teaching experience in a medical school basic science curriculum is preferred. Applicants should send a curriculum vitae, bibliography, two or three representative reprints, a statement of present and proposed research goals, current grant support, and the names of three references. The deadline for applications and nominations is December 1, 1992.

Send applications to: David A. Johnson, Chair (Neurosciences) or Paul M. Quinton, Chair (Physiology), Division of Biomedical Sciences, University of California, Riverside, CA 92521-0121.

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

university of Vermont
Molecular/Cellular Physiologist

The Department of Physiology and Biophysics seeks two tenure/research-track faculty members at the level of Assistant or Associate Professor. The Department has strengths in the following areas: 1) contract and motility; 2) ion channel and transport function; 3) cellular growth and remodeling; 4) intra- and intercellular signaling. We are seeking individuals whose research directly complements existing strengths. Strong preference will be given to individuals applying forefront cellular and/or molecular biological techniques to the study of physiological function. Candidates for Assistant Professor must have an earned doctorate, plus 2 or more years of postdoctoral experience at time of application. They must demonstrate the potential to develop an active independent research program and to contribute effectively to department teaching at both graduate and undergraduate levels. Applicants at the Associate Professor level must have demonstrated excellence in teaching and their ability to direct and sustain vigorous and productive research programs. The University of Vermont is an Equal Opportunity/Affirmative Action Employer. Women and individuals from diverse racial, ethnic, and cultural backgrounds are encouraged to apply.

Applicants should send a Curriculum Vitae along with a description of career goals, research objectives, and names of three references, by November 15, 1992, to:

Chair, Faculty Search Committee
Department of Physiology & Biophysics
University of Vermont College of Medicine
Burlington, Vermont 05405-0089

FACULTY POSITIONS
CANCER CENTER
UNIVERSITY OF MASSACHUSETTS
MEDICAL SCHOOL

Immediate opening for 5 senior tenured or junior tenure track positions in a newly formed interdisciplinary Cancer Center. Rank will be commensurate with ability and experience. The appointment will be in one of the basic science or clinical departments. Laboratories for the Cancer Center are housed in a new building containing approximately 80,000 square feet of modern research space. Core facilities for tissue culture, media preparation, DNA synthesis, protein sequencing and peptide synthesis, fluorescence-activated cell sorting, small animal irradiation and transgenic mice are available. The position will be highly competitive with regard to start-up funds, laboratory space and salary.

The Cancer Center seeks to develop a broad program focusing on the control of normal and neoplastic cell growth and differentiation. Potential specific areas of interest include, but are not exclusive to, basic and clinical gene therapy, stem cell biology, receptor-ligand interactions, cell cycle regulation, second messenger signaling, transcriptional regulation, cell adhesion proteins, transplantation biology, cancer cytogenetics and growth control genes. Applicants should send a curriculum vitae, statement of research interests and names of three references to any of the three individuals listed below:

Dr. Michael R. Green,
Search Committee Chairman
Dr. Michael P. Czech, Director,
Program in Molecular Medicine
or Dr. Peter J. Queener, Director,
Cancer Center

University of Massachusetts Medical Center
373 Plantation Street
Worcester, MA 01605

An Equal Opportunity/Affirmative Action Employer
POSITIONS OPEN


The University of Alabama at Birmingham, An Equal Opportunity/Affirmative Action Employer, is soliciting applications for FACULTY APPOINTMENTS in the Department of Pathology. An applicant should have an M.D., M.D./Ph.D., or Ph.D. in basic sciences such as biochemistry, cell biology, etc., and desire to focus his/her efforts on graduate education and research. Applicants will be considered who either have an appointment as instructor or plan to have a plan to develop such a program. Academic rank and tenure are dependent upon the qualifications of the applicant.

Current curriculum vitae of interested persons should be forwarded to: Jay M. McDonald, M.D., Professor and Chairman, Department of Pathology, The University of Alabama at Birmingham, University Station, Birmingham, AL 35294.

POSTDOCTORAL: K+ CHANNEL GENE REGULATION

Postdoctoral position available immediately to define the lymphocyte-specific and mitogen-activation-dependent state that control K+ transport gene (Kv1.3, Kv1.1) expression in normal and diseased lymphocytes. Previous experience in molecular biology required. Send curriculum vitae with references to: Dr. K. George Chandy, Department of Physiology and Biophysics, University of California Irvine (UCI), Irvine, CA 92717. Telephone: 714-765-2133. Fax: 714-856-6620. UCI is an Equal Opportunity/Affirmative Action Employer.

The University of Wisconsin Department of Surgery has a POSTDOCTORAL position to study gene therapy approaches to endothelial cell transplantation. Experience in molecular biology including cloning, transfection, and gene expression systems. Experience in cell culture and immunological techniques desirable. Send résumé and three letters of recommendation to: Dr. Debra Hultett, Surgery Department, 600 Highland Avenue, Madison, WI 53792-7375. The University of Wisconsin is an Affirmative Action/Equal Opportunity Employer.

Pioneer Hi-Bred International, Inc. seeks to fill a POSTDOCTORAL position to conduct research to develop new, improved, corn inbred strains. Experience with principles of genetic and plant breeding, understanding of population genetics and molecular biology. Send curriculum vitae, application and names of three or more references to: Dr. Richard J. Wilson, Pioneer Hi-Bred International, Inc., 1000 NW 64th Street, Johnston, IA 50131. Telephone: 515-270-3479 Fax: 515-270-4312.

POSTDOCTORAL POSITION IN MOLECULAR NEUROBIOLOGY: Studies of nicotinic acetylcholine receptors of muscles and nerves. Projects involve cDNA cloning, expression, localization, and function. Candidate must have Ph.D. in Neuroscience or related field(s) or equivalent experience. The successful candidate will have a Ph.D. in biochemistry, cell biology, or molecular biology and experience in molecular biology. Applications may be submitted at the University of California, Irvine. The University of California is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL POSITION open immediately to study the development of the enteric nervous system. Experience in molecular biology, neuroscience and behavior, and/or in vivo manipulations and characterization of neural systems a definite plus. Three references to: Dr. Ann Ouyang, Department of Medicine, M.S. Hershey Medical Center, P.O. Box 855, Hershey, PA 17033. Fax: (717) 531-6770. Pennsylvania State University is an Equal Opportunity/Affirmative Action Employer. Women and minorities are encouraged to apply.

POSTDOCTORAL RESEARCH TRAINING PROGRAM: MicroRNAs in Tumour Biology. Position involves RA and RXX regulatory functions in tumour development. Send curriculum vitae, summary of research experiences, and names of three references to: Dr. Frank L. Myszkowski, Jr., UCI Medical Center, 101 The City Drive, Route 81, Building 44, Orange, CA 92668.

The University of California is an Equal Opportunity Employer.

POSTDOCTORAL POSITION UNIVERSITY OF CALIFORNIA, IRVINE

Position available in Spring 1993 for BIOCHEMIST OR MOLECULAR BIOLOGIST with training in Tumor Biology. Project involves RA and RXX regulatory functions in tumour development. Send curriculum vitae, summary of research experiences, and names of three references to: Dr. Frank L. Myszkowski, Jr., UCI Medical Center, 101 The City Drive, Route 81, Building 44, Orange, CA 92668.

The University of California is an Equal Opportunity Employer.

CELLULAR IMMUNOLOGIST

Parasites—Mycobacteria

POSTDOCTORALPOSITIONS available to study both human and murine cellular immune responses in Leishmania, Trypanosoma cruzi, or Mycobacterium infections. Emphasis is on the induction and expression of macrophage and T cell responses to defined microbial epitopes. Candidates with an interest in basic and applied research in tropical medicine, including international collaboration, are encouraged to apply. Competitive salary and benefits. Send curriculum vitae and three reference names to: Dr. Steven G. Reed, Seattle Biomedical Research Institute, 4 Nickerson Street, Seattle, WA 98109.

Equal Opportunity Employer.

POSTDOCTORAL POSITIONS available immediately in behavioral neuroscience (sexual and maternal behavior, pharmacology, physiology, anatomy, biochemistry, sensory perception, and/or the neurobiology of disease). Three references to: Dr. Barbara A. D’Andino, Department of Neurobiology and Behavior, University of California, Irvine, CA 92717.

Equal Opportunity Employer.

POSTDOCTORAL RESEARCHERS

The Department of Physiology and Biophysics, University of California, Irvine, is developing a postdoctoral candidate pool for possible openings during the remainder of 1991-92 fiscal year. Openings may be available in the following research areas: ion channels in lipid bilayers; physical chemistry of membranes; mechanisms and characterization of nerve transduction and neurotransmission; electrophysiology; molecular properties of ion channels in excitable cell membranes; molecular and electrophysiological aspects of lymphocyte activation; or ion channel structure in accordance with current NIH/NSF postdoctoral stipends which are based upon qualifications and years of prior relevant postdoctoral experience. The successful candidate will be an independent investigator. Three references to: Michael D. Cahalan, Ph.D., Chairman, Department of Physiology and Biophysics, 412 Conte Hall, University of California, Irvine, CA 92717.

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

POSTDOCTORAL POSITION

Available immediately to investigate expression and function of glutamate dehydrogenase in mammals. Experience in Molecular Biology and/or protein chemistry is required. Call or write to: Dr. Andrew Jaeger, Department of Neurobiology, Mount Sinai School of Medicine, New York, NY 10029. Telephone: (212) 241-7300 or (212) 241-4534.

POSTDOCTORAL POSITIONS available immediately to study activation of protein kinases and its role in signal transduction to nuclei. Projects employ membrane biophysics, nuclear magnetic resonance, and molecular biology methods. Send curriculum vitae and at least three letters of reference to: Dr. Julianne Sando, Department of Pharmacology, Box 448, University of Virginia School of Medicine, Charlottesville, VA 22908.

POSTDOCTORAL FELLOW

Research Associate

The Neonatal Research Laboratory at Tulane University School of Medicine seeks individuals with skills in recombinant DNA techniques, RNA isolation and characterization, and protein purification to study the molecular regulation of care. The successful candidate will have the opportunity to develop his/her own research ideas. Funding is secure and salary is negotiable based on experience and doctoral degree preferred. Apply to: Dr. Thomas Storch, Pediatrics, Tulane University Medical Center, 1430 Tulane Avenue, New Orleans, LA 70112. Affirmative Action/Equal Opportunity Employer.

RESEARCH ASSOCIATE

POSTDOCTORAL FELLOW

Positions available for persons with expertise in protein chemistry and/or molecular biology who wish to participate in NIH-funded projects on immunoprotective determinants of M. tuberculosis and L. pneumophila. Send curriculum vitae, statement of research interests, and three letters of recommendation/reference to: Dr. Marcus A. Horwitz, Department of Medicine, UCLA School of Medicine, 10833 Le Conte Avenue, Los Angeles, CA 90024-1688. Fax: 310-794-7156.

POSTDOCTORAL FELLOW RESEARCH POSITION available immediately in Molecular and Cell Biology. Experience in Northern analysis, cell culture, biochemistry in fibroblastic mediators or lipoproteins are preferred. Send curriculum vitae, application and names of three or more references to: Dr. X. Shen, Department of Internal Medicine and Pharmacology, University of Manitoba, 770 Bannatyne Avenue, Winnipeg, Manitoba, Canada R3E 0W3, Fax: 204-774-9517.

POSTDOCTORAL FELLOW

Position available in the laboratory of Dr. John Kupinski. The successful applicant will have a Ph.D. in biochemistry, cell biology, or pharmacology with experience in molecular biology. The project will involve the expression and characterization of novel forms of adenyl cyclase. Emphasis will be placed on determining those structural features of the adenyl cyclases that are responsible for mediating unique physiological responses. Competitive salary and fringe benefits are available. Please send curriculum vitae with the names and telephone numbers of three references to: Gelsong Human Resources Department (JK)

100 North Academy Avenue
Danville, CA 95024-1529

Equal Opportunity Employer.

A RESEARCH ASSOCIATE position is available immediately for an individual with a background in molecular, cell biology and/or chemistry. The candidate will join the laboratory of Thora Pederson, to accelerate a program addressing novel enzymatic activities in RNA. Salary range is $22,000 to $30,000 per year, depending on previous experience. Applicants should submit a letter of interest and curriculum vitae to: DNA Research Associates, c/o Personnel Department, Worchester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. Affirmative Action/Equal Opportunity Employer.

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University of Illinois at Urbana-Champaign

Director
Arnold O. and Mabel M. Beckman
Institute for Advanced Science and Technology

The Arnold O. and Mabel M. Beckman Institute is a broadly-based interdisciplinary research institute with parallel programs in the physical sciences and engineering and in the life and behavioral sciences. The primary mission of the Institute is to foster interdisciplinary work of the highest quality in an environment that transcends many of the limitations inherent in traditional university organizations and structures. The Institute now involves about 140 faculty members, 71 staff members, and 500 students and postdoctoral associates in 21 research programs.

Applications and nominations are invited for the position of Director of the Beckman Institute for Advanced Science and Technology of the University of Illinois at Urbana-Champaign. The Director of the Beckman Institute is expected to be a strong leader, widely recognized for intellectual accomplishment and for an ability to administer a complex, research-oriented organization. He or she should have an ability to understand and support multi-investigator interdisciplinary activities. Normally the Director would hold a doctoral degree in one of the disciplines represented in the Institute, but particularly relevant experience might obviate this requirement. Since the Institute is an integral part of the University of Illinois, interacting in complex ways with established academic disciplines and organizations, it is essential that the Director be familiar with the academic environment. Experience in academic administration is desirable.

Among the responsibilities of the Director are the following: To formulate or to identify new interdisciplinary programs for inclusion in the Institute; to oversee continuing evaluations of programs and participants of the Institute; to work with departments and colleges in attracting key faculty members to the Urbana-Champaign campus in support of strong, interdisciplinary research programs of interest to the Institute; to provide intellectual leadership in organizing seminars and conferences and in operating the extensive program for visitors; to work with other campus and University administrators in establishing and maintaining appropriate relationships between the Beckman Institute and other campus units; to manage the Institute's physical and financial assets; and to assist the Institute's faculty in acquiring external support for research. The Director possesses the standing of an academic dean on the Urbana-Champaign campus and reports to the Vice Chancellor for Academic Affairs.

Salary: Open. Position available July 1, 1993. To be assured of full consideration, nominations and applications (including curriculum vitae) should be submitted by December 1, 1992, to:

Larry R. Faulkner, Chair
Search Committee for the Director of the Beckman Institute
Office of the Vice Chancellor for Academic Affairs
University of Illinois at Urbana-Champaign
Swanlund Administration Building
601 East John Street
Champaign, Illinois 61820
Telephone: (217) 333-1390

The University of Illinois is an affirmative action/equal opportunity employer.
The U.S. National Academy of Sciences (NAS) is recruiting for a scientist/administrator to serve as a (Resident) Director at the Radiation Effects Research Foundation (RERF) in Hiroshima, Japan. RERF is a private, non-profit foundation in Japan with laboratories in Hiroshima and Nagasaki with over 430 employees. The Foundation is equally funded by the Government of Japan, through the Ministry of Health and Welfare, and the U.S. Government, through the NAS with funds from the Department of Energy (DOE). RERF is also equally managed by citizens of the two countries. The RERF Board of Directors consists of twelve individuals (six Americans and six Japanese). Six of these Directors (three from each country) live in Hiroshima or Nagasaki and, as the Executive Committee, have responsibility for the day-to-day administration of the Foundation and all of the research activities conducted at RERF on the long-term follow-up of the late health effects among the survivors of the atomic bombs. Qualified candidates for this position must be U.S. citizens and have an M.D. or Ph.D. with extensive experience in scientific research, preferably radiation biology or a related research area, and management of a multi-disciplinary research program. U.S. (Resident) Directors are employees of the United States National Academy of Sciences and RERF. Salaries are commensurate with experience and are supplemented by relocation, housing and cost of living benefits. Although terms of office for Directors at RERF are for four years with a maximum of two terms (eight years), typical NAS appointments are for two years with extensions up to the eight years, if warranted. If you are interested in this position, send your resume and the names and addresses of at least three references to: Board on Radiation Effects Research (NAS 342-CE), National Academy of Sciences, 2101 Constitution Avenue, NW, Washington, DC 20418. EOE.

Group Leader, Clinical Pharmacokinetics

Play an integral role in the global submission process.

The Medical Research Division of American Cyanamid is recognized as a leader in the research and development of therapeutic compounds. Our products have been instrumental in the treatment of infectious diseases, cancer, cardiovascular and central nervous system diseases. We currently have an opportunity for a Group Leader, Clinical Pharmacokinetics in our dynamic organization.

Reporting to the Department Head of Pharmacokinetics Research, the successful candidate will possess a PhD or Pharm D in pharmacokinetics or related field and 5+ years’ experience with a documented strong background in pharmacokinetics and pharmacodynamics research including supervisory experience.

Working closely with Clinical Research, Formulations Research, Biostatistics and the Office of Regulatory Affairs, you will play an integral role in designing pharmacokinetic studies, analyzing data, developing pharmacodynamic measures and dosing strategies, and preparing pharmacokinetics packages for global submissions.

We are located on a new $150M, state-of-the-art facility in Rockland County, only 25 minutes north of New York City. The salary is fully competitive and includes comprehensive benefits. For consideration, send your resume/c/v. with salary history to: Personnel, Dept. PM-SCI, Lederle Laboratories, 401 N. Middletown Road, Pearl River, NY 10965. An Equal Opportunity Employer M/F. Principals only. No search/recruitment firms please.

La Jolla Cancer Research Foundation is an Equal Opportunity Employer

The Salk Institute is located in La Jolla, California, and is a model for how cutting-edge research and education can thrive in a small, non-profit institution. The Institute’s mission is to advance health and well-being by promoting the discovery and application of fundamental knowledge about the life sciences. Founded in 1960 by Dr. Jonas Salk, the Salk Institute is a place where scientists can come together to make discoveries that can improve the human condition.

The staff scientist position is an exciting opportunity for a motivated individual to join a dynamic team of researchers working on various projects within the Neurobiology Program. The successful candidate will be responsible for running experiments, analyzing data, and publishing results. The ideal candidate will have a Ph.D. in neuroscience, neuropharmacology, or a related field with at least two years of postdoctoral experience. A strong record of scholarship is essential, as is the ability to work independently and collaboratively. If you are interested in this position, please submit your CV and a brief statement of research interests to Dr. Barbara Ranscht, Neurobiology Program, La Jolla Cancer Research Foundation, 10965 North Torrey Pines Road, La Jolla, CA 92037.

The Salk Institute offers a competitive salary and benefits package, including health insurance, retirement savings plan, and paid time off. We value diversity and are committed to creating an inclusive and equitable workplace for all employees. As a non-profit research organization, we are dedicated to advancing science and improving the human condition.

To apply for this position, please submit your CV and a brief statement of research interests to Dr. Barbara Ranscht, Neurobiology Program, La Jolla Cancer Research Foundation, 10965 North Torrey Pines Road, La Jolla, CA 92037.
The Department of Nuclear Engineering at MIT seeks candidates for a Senior Faculty Position in the area of Radiological Sciences. The successful candidate should be able to direct a program consisting of a number of junior and affiliated faculty and students in all areas of Radiological Sciences comprising radiation therapy, radiation biophysics and medical imaging. His/her own research should preferably be in experimental areas of Radiological Sciences. Candidates interested in using the capabilities of our 5 MW research reactor for medical-related research are encouraged. He/she should be capable of mounting a significant research program, develop funding and directing the thesis activities of graduate and undergraduate students.

The candidate should be capable of teaching a wide variety of courses in the general area of radiological sciences and related fields such as nuclear physics. He/she should be capable of interacting with other activities at MIT and with medical colleagues in the associated teaching hospitals to further develop a broad and outstanding academic program in Radiological Sciences.

All candidates should write to the address below, describing their professional interests and goals. Each application should include a curriculum vitae and the names and addresses of three or more references. Additional material describing the applicant’s work, such as papers or technical reports, would also be helpful. All candidates should indicate citizenship and, in the case of non-U.S. citizens, describe their visa status. Send all applications to the search committee chairperson, Prof. Neil E. Todreas, Room 24-219, Massachusetts Institute of Technology, 77 Mass. Avenue, Cambridge, MA 02139-4307.

MIT is an Equal Opportunity/Affirmative Action Employer.

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### Cancer Molecular Genetics

ONCOGENETICS, a newly-founded R&D and clinical oncology laboratory, is pioneering the development and application of new technologies for cancer screening, diagnosis, prognosis and followup. We offer an outstanding opportunity for exceptional individuals to become key members of the scientific team, which includes scientists in pathology, cytogenetics, and cellular immunology. The option to pursue your own grant-funded research through our allied non-profit research foundation also exists. A comprehensive salary and benefits package includes equity.

- **Director of Research & Development**
  A PhD or MD degree, extensive hands-on expertise, and a focus in molecular carcinogenesis is required. The ideal candidate will have the capability and interest to establish a network of external collaborations with academic and clinical institutions.

- **Director of Clinical Molecular Genetics**
  A PhD or MD degree and established expertise in genetic linkage and the detection of molecular deletions, mutations and insertions is required, as well as ABMG certification or eligibility in clinical molecular genetics.

Please send curriculum vitae including specific interests, publications and professional goals to: Fredric J. Feldman, PhD, ONCOGENETICS, Inc., Post Office Box 61073, Phoenix, AZ 85082-1073.

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### U.S. Department of Energy

**POSTGRADUATE RESEARCH PROGRAMS**

- **Human Genome**
- **Toxicology**
- **Fossil Energy**
- **Hazardous Wastes**
- **Fusion Energy**
- **Computer Sciences**
- **Global Change**
- **Engineering**
- **Physical Sciences**
- **Environmental Sciences**
- **Life Sciences**
- **Risk Analysis**

- Research at national laboratories
- Stipends $22,200 - $52,800 depending on degree, program, research area
- Recent graduate degree
- U.S. citizenship or PRA status may be required

Information and applications:

Postgraduate Research Programs
Science/Engineering Education Division
Oak Ridge Institute for Science and Education
P.O. Box 117
Oak Ridge, TN 37831-0117
(615) 576-7385

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**RESEARCH OPPORTUNITIES**

**Postdoctoral Scientists**

Progenics Pharmaceuticals is a biotechnology company specializing in the discovery of novel treatments for HIV infection and other diseases. We are currently seeking highly motivated scientists with Ph.D. or M.D./Ph.D. degrees and 0-2 years of postdoctoral experience, to join our team. Experience in one or more of the following areas is required: molecular biology, protein chemistry, virology, immunology, cell biology.

Progenics actively collaborates with investigators in laboratories throughout the United States and Europe. Emphasis is placed on basic research and publication in peer reviewed journals. The research facilities are situated on a suburban campus 20 miles north of New York City.

Candidates should send their curriculum vitae, a description of their research experience and interests, and the names and addresses of three references to: Human Resources, Progenics Pharmaceuticals, Inc., 777 Old Saw Mill River Road, Tarrytown, NY 10591.
STAFF RESEARCH ASSOCIATE to conduct research in stratospheric dynamics and chemistry using numerical modeling to understand the causes of the ozone hole and other problems. Develop numerical techniques to improve simulation of cross-polar flow in a high-resolution version of a global general circulation model; modify model boundary conditions and existing radiation parameterization to achieve a better simulation of polar stratospheric dynamics; and connect the resulting high-resolution model to drive a global-scale tracer-chemistry model. Requirements: Ph.D. in Atmospheric Sciences with research emphasis on numerical modeling of atmospheric dynamics; experience with global models; or Ph.D. in Meteorology; knowledge of numerical methods relevant to the simulation of stratospheric flows in the high-latitudes; ability to handle large data sets; experience with GCM model data analysis and visualization; Macintosh systems, and Sun and DEC workstation environments. Job location/interview: Los Angeles, CA. Salary $25,004 per year, 40 hours per week, 9:00 a.m. to 5:00 p.m. Apply: Employment Service, 1 North Mangum Street, Durham, NC 27701, to nearest Job Service Office. Refer to Job Order # NC302085, DOT Code 090.227-010. State Social Security Number. If not a U.S. citizen, state basis for work authorization in the United States.

RESEARCH ASSOCIATE for cancer research institute in Southwest Ohio. To study the differential activation of the human immunodeficiency virus (HIV) gene (long terminal repeat) by the trans-activation (TAT) protein, and to determine the mechanisms by which TAT proteins bind to long terminal repeat DNA. Requirements: Ph.D. in Molecular Biology or related field. Salary $28,100 per year. Apply: Dr. Kenneth L. Johnson, Department of Pathology, University of Cincinnati Medical Center, 231 Albert Sabin Way, Cincinnati, OH 45267.

RESEARCH ASSOCIATE to study cardiovascular effects of alcohol abuse and withdrawal in students and faculty in Biological Psychology Ph.D. program. Requirements: Ph.D. in Biological Psychology; knowledge of animal behavior, physiology, and pharmacology. Salary $14,000. Apply: Dr. Allan L. Schore, Psychology Department, University of California, Santa Barbara, CA 93106.

RESEARCH ASSOCIATE in the Environmental Science and Technology Laboratory to conduct research on the effects of pollutants on aquatic ecosystems. Requirements: Ph.D. in Environmental Science or related field. Salary $25,000 per year. Apply: Dr. J. L. MacIntosh, Environmental Science and Technology Laboratory, 1224 Victor Avenue, Berkeley, CA 94709.

POSTDOCTORAL RESEARCH ASSOCIATE in Molecular Genetics and Cell Biology. Requirements: Ph.D. in Molecular Biology. Salary $28,000 per year. Apply: Dr. J. L. Beebe, Department of Molecular Biology, University of California, Berkeley, CA 94720.

POSTDOCTORAL RESEARCH ASSOCIATE in the Department of Psychology. Requirements: Ph.D. in Psychology. Salary $28,000 per year. Apply: Dr. J. L. Beebe, Department of Psychology, University of California, Berkeley, CA 94720.
POSTDOCTORAL FELLOWSHIPS
IN THE DEPARTMENT OF ANATOMY AND NEUROBIOLOGY
UNIVERSITY OF CALIFORNIA, IRVINE

Several positions for research in individual laboratories in the Department are available for candidates who have demonstrated research promise at the predoctoral or postdoctoral level. The emphasis of research in the Department is in the Neurosciences with special expertise in neuromorphology, sensory physiology, and molecular neurobiology. The faculty for the Department and their neurobiology. The faculty of the Department and their research interests are:

Dr. Robert Blank: Eye movement control, physiology of upper airway
Dr. James Fallon: Chemical neuroanatomy, transmitters and growth factors
Dr. Christine Gall: Limbic/factor anatomy, neurotic factors, neuronal gene expression
Dr. Roland Gioli: Visual system: structure/function relationships
Dr. Edward Jones: Transmitter regulation in primate cerebral cortex
Dr. Glenn Kageyama: Oxidative metabolic development and plasticity
Dr. Leonard Kiszon: Auditory system anatomy and physiology
Dr. W. Ian Lippin: Neurotransmitter factors, viral vectors
Dr. Sandra Loughlin: Monamines, peptides and growth factors and their receptors
Dr. Diane O'Dowd: Function and regulation of ion channels in Drosophila.
Dr. Charles Roberts: Neurotransmission and hippocampal circuits.
Dr. Richard Robertson: Thalamosensory development
Dr. Malcolm Sampel: Auditory processing
Dr. Martin Smith: Cellular and molecular aspects of synaptogenesis.
Dr. John Swett: Spinal cord and peripheral nervous system.

Applications or inquiries for additional information should be sent to:

Dr. Edward G. Jones, Professor and Chairman
Department of Anatomy and Neurobiology
University of California, Irvine
Med Surge II, Room 364
Irvine, CA 92717

An affirmative action/equal opportunity employer

DEAN OF RESEARCH - COOK COLLEGE/ DIRECTOR OF RESEARCH
NEW JERSEY AGRICULTURAL EXPERIMENT STATION

Cook College, Rutgers - The State University of New Jersey, New Brunswick, N.J. invites nominations and applications for the position of Dean of Research - Cook College/Director of Research New Jersey Agricultural Experiment Station. The New Jersey Agricultural Experiment Station conducts basic and applied research designed to meet the challenges posed by New Jersey's extraordinary diverse economy and environment. The station sponsors programs with faculty from throughout the university who are trained in a wide range of scientific disciplines and who conduct research at the forefront of their fields. The Experiment Station provides a unique, multidisciplinary structure that fosters innovative solutions to today's complex problems, and encourages novel research approaches aimed at ensuring a healthy and dynamic state economy while protecting our fragile environment and finite natural resources.

The Dean/Director is responsible for directing and administering the state-wide research program of the Experiment Station in the agricultural, environmental, food, life, and marine sciences. The Dean/Director will provide leadership for the research activities of the Academic Department and the Research Centers and Institutes associated with Cook College and the College of Agriculture and Natural Resources. The research component of the New Jersey Agricultural experiment Station totals approximately $32 million, state, federal, and extensively with appropriate state and federal government bodies, and will provide leadership for the College, and the Experiment Station in identifying and securing principal sources of outside funding for state and federal agencies, industry, and commodity groups. The Dean/Director reports to the Executive Dean/Executive Director of Agriculture and Natural Resources.

Requirements include an earned Doctorate in an appropriate discipline. An outstanding research background, and a demonstrated administrative competency in program development and leadership, fiscal planning, grant procurement, budget and personnel management are essential. Familiarity with operations of land-grant institutions is desirable. Applicant must qualify for faculty appointment at the rank of full professor with tenure.

Interested applicants should submit a current curriculum vitae and names, addresses and telephone numbers of three references by December 1, 1992 to:

Dr. Richard A. Lutz
Chair of the Search and Screen Committee
Cook College, Rutgers University
Office of Personnel
P.O. Box 231, Martin Hall
New Brunswick, New Jersey 08903-0231

Rutgers University is an Affirmative Action/Equal Opportunity Employer.

TENURE-TRACK POSITIONS IN BIOLOGY

As part of its continuing dynamic growth, the Department of Biological Sciences at the Univ. of Nevada, Las Vegas will be filling two (2) tenure-track positions (assistant or associate professors) in: (i) Eukaryotic Cell Biology. The area of research is open. Teaching will include a core undergraduate cell biology course and an upper level undergraduate/graduate course in the applicant's specialty in the Department's core program for biology majors. (ii) Virology. Preference will be given to applicants interested in the basic understanding of viruses and their function, regardless of the research area. Teaching will include an upper level undergraduate/graduate course in virology, a graduate course in the candidate's area of specialization, and occasional participation in the department's core program for biology majors. (iii) Ichthyology - ecological/evolutionary genetics. The successful candidate will be a broadly trained scientist whose work represents an interface between evolutionary and ecological, or ecological and physiological, aspects of fish genetics. Teaching will include both undergraduate and graduate courses in evolution, ecology and/or physiology. All Applicants must hold Ph.D. with post-doctoral experience preferred. The successful candidates will maintain vigorous, independently-funded research programs and provide graduate training in the department's growing Ph.D. program. Competitive salaries, start-up funds, and modern facilities will be offered. Anticipated starting date for all positions is August, 1993.

The Dept. of Biological Sciences currently has 26 faculty members, 35 graduate students and more than 500 undergraduate majors. Projectors indicates sustained growth through the current decade. Applicants who have recently received Ph.D. grants in the past five years are encouraged. At least two references from previous mentors should be supplied. Application materials include a letter of interest, a current curriculum vitae, up to three most recent publications, and three reference letters to: Department of Biological Sciences, c/o Dr. Warren W. Burggren, Chairman, University of Nevada, Las Vegas, 4006 Maryland Parkway, Box 4004, NV 89154-4004. Fax (702)739-3956. All application materials must be received by November 13, 1992. The University of Nevada, Las Vegas is an equal opportunity/affirmative action employer. UNLV employs only US citizens and aliens authorized to work in the U.S. Applications from women, members of minority groups and foreign nationals are actively sought.

Tenure-track positions in biology will be filled at the Assistant Professor level by a scientist using molecular or cellular techniques to investigate problems of transcellular or intracellular transport in microorganisms, plants or animals.

Candidates should have postdoctoral experience and should be prepared to develop a research program involving graduate and undergraduate students. Substantial start-up funds are available. In addition to training students in research, the Ronald B. Weintraub Research Professor will offer one or two graduate courses per year. The starting date for this position will be July 1, 1993.

Please send a letter of application describing your research goals for the next five years as well as your teaching interests, a curriculum vitae, and the names, addresses and telephone numbers of three to five referees to:

Randall Packer, Chairperson
Department of Biological Sciences
307 Lissner Hall
The George Washington University
Washington, DC 20052

Review of applications will begin on December 1, 1992 and will continue until the position is filled.

The George Washington University is an Equal Opportunity, Affirmative Action Employer.
BIOLOGY FACULTY POSITIONS
The Department of Biology, Indiana University-Purdue University at Indianapolis, invites applications for three tenure-track positions at the Assistant Professor level starting August 1, 1992. Applicants for the positions must have postdoctoral training. We seek candidates who are committed to excellence in the complementary missions of research and teaching. Each successful candidate is expected to develop an active, externally funded research program and contribute to the undergraduate and graduate teaching mission of the Department. The salary is competitive and substantial start-up funds are available. Intra- and interdepartmental collaborative research efforts are encouraged and supported; adjunct appointments to programs or departments within the Indiana University School of Medicine will be negotiated.

Indiana University-Purdue University at Indianapolis is the third largest University in the state, with more than 28,000 students, 2,000 faculty, and 165 degree programs in 17 Schools and Divisions. The Department of Biology is part of the School of Science and currently has 17 full-time faculty of professorial rank. Graduate degrees in Biology are offered at both the Master’s and the Ph.D. level. The Department occupies new research and teaching facilities adjacent to the Indiana University School of Medicine. Indianapolis is the twelfth largest city in the United States. The city uniquely combines the cultural amenities of urban life with the residential qualities of smaller communities, and is also highly affordable.

Candidates with the following areas of expertise will be considered:

IMMUNOLOGY: Candidates should be knowledgeable in immunology at the molecular, cellular and organissomal level, with research interests in basic immunological processes or immunologic aspects of disease.

CELL/DEVELOPMENTAL BIOLOGY: We are interested in candidates with research interests in the regulation of cellular and/or developmental processes at the molecular or biochemical level.

ENVIRONMENTAL TOXICOLOGY: Candidates should be knowledgeable in basic environmental biology and have research interests in the cellular and molecular effects of toxic substances on living tissues and organisms.

PHYSIOLOGY: We seek an animal physiologist with research interests in the mechanism of hormone action; however, other research areas in animal physiology will be considered.

Applicants should send a curriculum vitae, three letters of recommendation, and a statement of their research and teaching interests to Dr. N. Douglas Lees, Chairman, Department of Biology, Purdue University School of Science, 723 West Michigan Street, Indianapolis, Indiana 46202-5132. Applications must be received by December 15, 1992.

Indiana University is an Equal Opportunity - Affirmative Action Employer. Women and minority candidates are particularly encouraged to apply.

Molecular Modeling Scientist
At Sandoz Pharmaceuticals, research is the tool by which we gain the knowledge needed to improve the lives of countless thousands across the country and around the world. That's why we've committed substantial resources to expanding our Research Institute and its state-of-the-art technologies. If your career belongs on the leading edge of scientific research, you belong at Sandoz.

We are looking for a Computational Scientist to join the Molecular Modeling Group at Sandoz Research Institute. The candidate should be experienced in macromolecular modeling. Experience in computational studies of protein and/or nuclear acid systems by methods such as molecular mechanics, molecular dynamics, free-energy methods and homology analysis is expected. The position requires participation in a highly interactive, interdisciplinary approach to structure function elucidation as used in a rational drug design program. Such studies will require collaboration with Biochemists, Molecular Biologists, Physical Chemists (NMR and X-ray), and Medicinal Chemists. Good interpersonal and communication skills are necessary for the position.

The Molecular Modeling Group has a robust, dedicated computing resource which includes a supercomputer, high-end graphics workstations and a full suite of computational chemistry software. Being part of the research team at Sandoz has many advantages. Our salaries and benefit programs are designed to attract top candidates and provide them with the resources to produce their best. Comprehensive health, dental, and savings plans as well as fitness and athletic facilities are all provided at our attractive location in northwest New Jersey, which also allows for outstanding academic, cultural and outdoor pursuits. For prompt, confidential consideration, respond to position #2407 by forwarding your resume and salary requirements, to:

SANDOZ PHARMACEUTICALS CORP
SRI Staffing Department
Building 403/100
East Hanover, New Jersey 07936 - 1080

SANDOZ
Bringing research to life
An Equal Opportunity Employer M/F/D/V

Research Opportunities in Biotechnology
The Department of Biotechnology Research is seeking applicants for our ongoing program of crop improvement. Pioneer offers competitive salaries, excellent facilities and a highly cooperative research environment. Successful candidates will be expected to interact extensively with ongoing programs in transformation, gene expression, gene isolation or RFLP programs.

PROJECT LEADER, PLANT SECONDARY METABOLISM (JOB #1355-A) – We have an immediate opening for a highly motivated scientist to develop a research program investigating the manipulation of plant secondary metabolites for crop improvement. This position will demand extensive interaction with scientists from many different disciplines and will be an important addition to our ongoing research program of identifying agronomically useful genes. EDUCATION/EXPERIENCE: Ph.D. or equivalent experience in organic chemistry, biochemistry, molecular biology or related field plus 1-2 years relevant post-doctoral or laboratory experience. Research experience in the elucidation or manipulation of plant secondary metabolite pathways is required.

SENIOR RESEARCH ASSOCIATE (JOB #1369) – We have an immediate opening in the gene expression group for an individual to participate in the isolation and testing of genes and promoter systems for novel gene expression in maize. This position will require extensive research experience in molecular biology, focusing on the construction of cDNA libraries and the functional analysis of elements (cis and trans) that participate in the regulation of eukaryotic gene expression in plants. EDUCATION/EXPERIENCE: MS degree in molecular biology, biochemistry or related field plus 2 years directly related laboratory experience; or 4 years directly related lab experience with a 4-year University degree.

Applications received by NOVEMBER 13, 1992 will be assured of consideration. However, applications will be considered until the positions are filled. Pioneer Hi-Bred International, Inc. is an Equal Opportunity Employer. Please send TWO (2) resumes and indicate in your correspondence the JOB #, the names, addresses and telephone numbers of three references to:

PIONEER HI-BRED INTERNATIONAL, INC.
Plant Breeding Division
Department of Biotechnology Research
Attn: Amy LaMotte JOB#_50131-1004
P.O. Box 1004
Johnston, IA 50131-1004
**BASF Bioresearch Corporation**

BASF Bioresearch Corporation is a medical research company developing novel therapies for immunological disorders and cancer. Founded in 1989, we are part of a global enterprise with more than 125 years of dedication to scientific innovation. We are building a major new research facility in Worcester, Massachusetts, which will also provide significant capacity for the production of biopharmaceuticals. At our temporary location in Cambridge, Massachusetts, we have immediate openings for the following professionals:

**Mammalian Cell Culture Scientist**

We are seeking a scientist to set up and operate a laboratory for preparative cell culture. The successful candidate will have had experience in spinner culture and 20-75 liter scale bioreactors for the production of cell mass and heterologous proteins. Preference will be given to applicants who have experience with a variety of expression systems such as baculovirus, CHO cells, recombinant myeloma cells and hybridomas. The ideal candidate will have optimized low protein/serum free media and conditions for cell growth and product formation.

Qualifications required are a Ph.D. in a related area with at least 2 years of industrial experience in preparative cell culture, or alternatively a BS/MS from the life sciences or biochemical engineering with at least 5-10 years’ experience in various aspects of preparative cell culture. Dept. PD1

**Fermentation Scientist**

The successful applicant for this position will conduct and supervise microbial fermentation process development and laboratory activities at the 20-75 liter scale. The candidate will be responsible for fermentation methodology development for a variety of protein therapeutics and reagents, as well as scale up and transfer of operations to the 3,000 liter scale for production of materials for GMP clinical trials and subsequent manufacturing.

We are seeking a Ph.D. biochemical engineer or microbial physiologist with at least 2-4 years of industrial experience in fermentation process development with yeast and bacterial heterologous protein expression systems. The candidate will be responsible for developing and enhancing our technical proficiency in this area. Experience with highly instrumented computer controlled fermentation equipment and appropriate analytical methods is highly desired. Dept. PD2

**Senior Process Engineer**

The qualified candidate will be responsible for the start-up and operation of fermentation and primary recovery equipment in the new BASF Bioresearch Corporation biologics pilot plant. This individual will supervise the development of methods and SOP’s as required for successful GMP production of materials for clinical trials. An MS in chemical or biochemical engineering with at least 5-8 years’ experience in fermentation operations is required, as well as a background in cGMP documentation and procedures. Familiarity with distributed control systems, integrated materials and maintenance management concepts would be a plus. Dept. PC3

**Senior Scientist**

**Biochemistry**

The qualified individual will be responsible for the development of strategies and protocols for the purification of proteins to be used as drug targets or novel therapies. This person should have extensive background in biochemistry, enzymology, protein chemistry and experience in the purification of novel proteins from complex mixtures at small to medium scale. A Ph.D. with at least 2 plus years’ postdoctoral training or an MS with at least 10 plus years’ experience is preferred. Dept. BC1

**Research Associate**

**Molecular Biology**

The selected candidate will have a strong background in cDNA cloning, tissue culture techniques, expression of recombinant proteins in mammalian systems or promoter analysis. Requires an MS in biology or comparable work experience and at least 2-3 years’ laboratory experience in molecular biology. Familiarity with PCR or MicroVax based DNA analysis software packages is a plus. Dept. MB1

BASF Bioresearch Corporation is a wholly-owned affiliate of BASF Corporation, a Fortune 100 company. Our compensation and benefits program is representative of this leading industrial position. For prompt consideration, please forward resume indicating position of interest, including department number, and salary history to: Linda Rosich, Human Resources Department, BASF Bioresearch Corporation, 64 Sidney Street, Cambridge, Massachusetts, 02139. An Equal Opportunity Employer.
POSTDOCTORAL POSITION
UNIVERSITY OF CALIFORNIA,
SAN FRANCISCO
Available immediately for studies of antioxidant enzyme gene expression in SOD-1 transgenic mice and in cultured neurons. Experience with in situ hybridization, cDNA cloning and molecular biology techniques preferred. Model systems and references to: Dr. Pak H. Chan, Director, CNS Injury and Edema Research Center, Box 0114, University of California, San Francisco, 505 Parnassus Avenue, San Francisco, CA 94143-0114. An Equal Opportunity Employer.

CHEMIST, PHARMACEUTICAL (Senior Research Chemist, Animal Formulation Development)—Develop analytical methods for pharmaceuticals in variety of matrices including formulations, medicated feeds, and biological fluids. Characterization of organic compounds to define formulation stability problems using both physical organic chemistry and statistically designed experiments. Perform preformulation/formulation studies to describe on molecular basis the properties of pharmaceutical dosage forms. Use physiological, organic mechanistic, organic structural and analytical expertise in the rational design and development of pharmaceutical formulations for animal health products based on chemical structure properties. 40 hours per week, 8:30 a.m. to 5:00 p.m., salary $4,000 per month. Ph.D. in Pharmaceutical Chemistry plus one year of experience in job or one year of experience as Ph.D. Level Research. Experience must include analysis using High Performance Liquid and Gas Chromatography, product stability protocols and preformulation studies and working knowledge of pharmacokinetics and pharmaceutical chemistry of peptides. Relevant publications in peer reviewed journals required. Westpoint, Pennsylvania location. Must have proof of legal authority to work in the U.S. 3rd year formulation vizee to: Philadelphia Job Bank, 444 North 3rd Street—3rd Floor, Philadelphia, PA 19123, Job Order #4487994.

LOYOLA UNIVERSITY CHICAGO
MOLECULAR VIROLOGIST IMMUNOLOGIST
An excellent opportunity exists at Loyola University Medical Center for a Immunologist with experience in vaccine development and a Molecular Virologist with experience in Papillomavirus research. Join the newly formed Viral Oncology group and work in our new Cancer Center. Applicants will develop their research programs and establish grants. Salary and academic rank dependent on the candidate's background. Please forward curriculum vitae to: Gregory Delgadillo, M.D., Professor and Chair, Department of OB/GYN, Loyola University Medical Center, 2160 South First Avenue, Maywood, IL 60153. Telephone: 708-216-3383. Or contact: Lutz Gissmann, Ph.D., Director Designate, Division of Viral Oncology, Loyola University Medical Center, 49-6221-424603.

ANNOUNCEMENTS
UPDATE ANNOUNCEMENT: Symposium on Hurricane Andrew effects on South Florida, with panels and round table. Other sessions include geology, physical and chemical processes, biotic processes, stresses and events, global change, and policy. For further information, contact: Chris Harwell, RSMAS, 4600 Rickenbacker Causeway, Miami, FL 33149, Telephone: (305) 361-4168.

Smithsonian Institution Fellowship Program

ANNOUNCEMENTS
WILLIAM P. DOHERTY, JR.
ATTORNEY AT LAW
Specializing in bio-sciences and chemical dispute resolution and litigation. 20 Franklin Street P.O. Box 319 Bridgeton, NJ 08302 Telephone: (609) 455-4900 FAX: (609) 455-7222

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PHARMACEUTICAL DESIGN USING EPTTOPE SELECTION TECHNOLOGIES

MEETINGS
NITRIC OXIDE IN HEALTH AND DISEASE
A symposium sponsored by the Environmental and Occupational Health Sciences Institute (EOHSI) at Rutgers University and UMDNJ—Robert Wood Johnson Medical School and The Cancer Institute of New Jersey. June 21-24, 1993. For information contact: Fodzi Leyton, Environmental and Occupational Health Sciences Institute, 681 Peldinghusen Road, Piscataway, NJ 08854-1799 Telephone: (908) 993-0202; FAX: (908) 932-0131

SECOND BIENNIAL SYMPOSIUM ON BIOGEOCHEMISTRY OF WETLANDS
To be held at the Hilton Hotel, Baton Rouge, Louisiana, 22-24 February 1993. Sponsored by the Wetland Biogeochemistry Institute, Louisiana State University. Topics to be included will be: Eutrophication in wetlands, Global climate change, the use of wetland biogeochemistry to process and characterize wetland processes, toxic heavy metal chemistry in wetlands, reactions of toxic organics in wetlands, the role of wetlands in improving water quality, plant-soil interactions in wetlands, and nutrient cycling in wetland ecosystems. Persons interested in making a presentation or attending the symposium should contact: William H. Parks, Jr. or Karen Groat, Wetland Biogeochemistry Institute, Louisiana State University, Baton Rouge, LA 70803. Telephone: 504-388-8810, FAX: 504-388-8424.

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