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**DEPARTMENT OF BIOLOGY**

**ASSISTANT PROFESSOR** tenure-track position(s) to begin 1 September 1989. Ph.D. required. Duties include teaching introductory and upper level cell biology or evolutionary biology. Candidates should have a commitment to excellence in teaching and a strong interest in student research. Salary commensurate with experience. Minority applicants strongly encouraged to apply. Equal Opportunity/Affirmative Action Employer. Send letter of interest and resume by 22 November 1988 to: Dr. Kathleen Fleissig, Department of Biology, Kennesaw State College, Marietta, GA 30061.

**CELL AND MOLECULAR BIOLOGY GROUP**

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Applications are invited for a tenure-track position at the ASSISTANT PROFESSOR level, available 16 August 1989. Ph.D. and minimum of 2 years of postdoctoral experience are required. Special consideration is given to candidates who are studying the regulation of cellular metabolism using contemporary molecular techniques. The successful applicant will be expected to participate enthusiastically and effectively in teaching undergraduate and graduate students, and to establish a strong, independent research program. Please submit curriculum vita, a brief description of research interests, and the names and telephone numbers of three individuals who are willing to provide letters of reference to: Dr. Richard A. McDaniel, Department of Biology, West Virginia University, Morgantown, WV 26506. Applications must be received by 3 February 1989. WVU is an Equal Opportunity Employer. We encourage applications from women and minority group members.

**ASSISTANT PROFESSOR IN COGNITIVE PSYCHOLOGY**

Possible tenure-track position for fall 1989. Background could include training in general cognition, social cognition, and/or developmental cognition. Specific interests will depend on research skills and problem solving, development of abstract abilities, or learning disabilities. The candidate should have background in one or more of the following areas: history and contemporary psychology, problem solving, development of abstract abilities, or learning disabilities. The candidate should have background in one or more of the following areas: history and contemporary psychology, problem solving, development of abstract abilities, or learning disabilities.

**POSITIONS WANTED**


**POSITIONS WANTED**

**ANALYTICAL CHEMISTRY. TENURE-TRACK FACULTY POSITION** at the Department of Chemistry, San Diego State University. Applications accepted for a tenure-track position as assistant professor in analytical chemistry beginning fall 1989. Established and funded individuals will also be considered for appointent in graduate courses. Applicants should have a Ph.D. in analytical chemistry and postdoctoral experience. We are particularly interested in individuals whose research complements that of existing faculty and which emphasizes electrochemistry or spectroelectrochemistry. The successful applicant will be expected to develop a vigorous independent research program, supervise Ph.D. and M.S. students, and participate in the graduate and undergraduate teaching programs. Applications, including curriculum vitae, list of publications, summary of achievements, a detailed plan of future research, and three letters of recommendation, should be sent to: The Search Committee Chair, Department of Chemistry, San Diego State University, San Diego, CA 92182 by 15 December 1988. San Diego State University is an Affirmative Action/Equal Opportunity Title VI and VII Employer, and encourages applications from women and minorities.

Indiana University, Bloomington—analytical chemistry. The Department of Chemistry at Indiana University, Bloomington, invites applications for analytical chemists for tenure-track faculty positions at any level. Applicants at the senior faculty level must have an active research program and leadership in the field of research whereas applicants at the assistant professor level must show exceptional promise of establishing a vigorous independent research program in an academic setting. To apply, submit curriculum vitae, publication list, and a short resume of ideas for the development of research programs. Candidates at the junior level should arrange to have three letters of recommendation forwarded as well. Deadline for applications is 1 December 1988. Please apply to: Professor Paul A. Greco Department of Chemistry Indiana University Bloomington, IN 47405 Indiana University is an Equal Opportunity/Affirmative Action Employer.

Environment Canada, the National Hydrology Research Centre in Saskatoon, Saskatchewan, requires an AQUATIC MACROPHYTE ECOLOOGIST to plan and conduct applied and basic research in aquatic macrophyte ecology. The individual will design and implement field and laboratory studies to investigate various aspects of macrophyte ecology in lakes and rivers to include the role of nutrients, lights, sediment structure, flow regime and toxic chemicals. You require a doctorate degree in biology with a knowledge base in aquatic and limnology, and experience in the area. Preference will be given to Canadian citizens. Apply to: Doug Kenney, Human Resources Officer, Public Service Commission of Canada, 1010-1867 Hamilton St., Suite 420, Saskatoon, Saskatchewan, S7L 3P4 in the telephone: 306-780-7027. Application #S-88-52-0124-0680-(A). Closing date: 18 November 1988.

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AMERICAN AIR LIQUIDE is part of L’Air Liquide Group, a world leader in industrial gases. This position is available at our Chicago Research Center located 15 miles southwest of Chicago. Applicants are invited to submit their resume to: Ronald J. Nowak, Personnel Manager, AMERICAN AIR LIQUIDE, 5230 S. East Avenue, Countryside, Illinois 60525. Affirmative Action/Equal Opportunity Employer

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**RESEARCH Scientist**

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A major responsibility involves assay development in several areas including protein molecular weight determinations, as well as vitamin and lipid analyses. Proven skills in performing and directing assay validation is imperative. Strong verbal and written communication skills would be an asset for heavy interaction with quality assurance groups.

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To apply, applicants should submit a cover letter, a curriculum vitae, research statement, teaching statement, and three letters of recommendation to: Dr. Donald B. Sittman, Search Committee, Department of Biochemistry, University of Alabama at Birmingham, 167 North 12th Street, Jackson, MS 35216-4505. Questions may be directed to the Chair of the Search Committee at sbaggett@uab.edu.

ASSESSMENT PROFESSOR OF LABORATORY ANIMAL PATHOLOGY—Department of Veterinary Pathology, University of California, Davis (UCD). Candidates must have a D.V.M. (or equivalent) and a Ph.D. with advanced training in pathology or experimental pathology. The successful candidate will be expected to complement the expertise of our research-oriented group in biochemistry and pathology. The successful candidate will establish an externally funded research program, and supervise Ph.D. students. Teaching responsibilities include teaching the candidate's expertise primarily at the graduate level. Send statement of research interests, curriculum vitae, and three letters of recommendation by 15 December 1988 to: Professor Wilbur H. Campbell, Search Committee Chairman, Department of Biological Sciences, University of California, Davis, CA 95616.

AURAL AUDITORY PSYCHOPHYSICS—Postdoctoral position

Position available immediately to study psychophysics and psychophysical methods in the perception of sound. The successful candidate will be expected to design experiments, conduct experiments, and analyze data. Responsibilities will also include teaching an undergraduate course on psychophysics. Opportunities exist to collaborate in ongoing psychobiological projects. Applicants should send a curriculum vitae and the names of three references to: Dr. Dennis L. Binds, Chair, Department of Psychology, University of California, Riverside, CA 92521. A Ph.D. in experimental psychology is required. The position is open until filled.

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ASSOCIATE RESEARCH SCIENTIST—Study cis and trans-acting protein in regulation of eukaryotic gene transcription. Send curriculum vitae, and three letters of recommendation to: Dr. P. B. Feigelson, Department of Biochemistry, Institute of Cancer Research, Columbia University, 701 West 165th Street, New York, NY 10032. Columbia University is an Equal Opportunity Employer and welcomes applications from women and minorities.

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AUDITORY PSYCHOPHYSICS—Postdoctoral position

A postdoctoral position in the laboratory of Dr. James W. Dungworth, Department of Microbiology and Immunology, University of California, Davis, CA 95616, is available to study the genetics of auditory perception. The successful candidate will be involved in experiments that use genetic, biochemical, and behavior techniques. Applicants should send curriculum vitae and the names of at least three references to: Dr. D. W. Dungworth, Chair, Department of Microbiology, University of California, Davis, CA 95616.

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ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY—Tenure-track, 12-month position at Indiana University School of Medicine. Qualifications include earned degree in biochemistry, postdoctoral or equivalent research experience, and a fundable research program. Academic duties include shared lecture and laboratory responsibilities in the medical biochemistry course. Opportunities for collaborative research are available and encouraged. Send curriculum vitae and three letters of recommendation to: Dr. Walter C. Balaac, Chairman, Search Committee, Department of Biochemistry, Indiana University School of Medicine, 135 Holmstedt Hall, Terre Haute, IN 47885. Indiana University is an Affirmative Action/Equal Opportunity Employer.

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Department of Molecular and Cellular Biology, University of Colorado, Boulder. We seek candidates with research interests in mechanisms of cell function or communication. Areas of particular interest to the department include, but are not limited to, transmembrane signaling, cell-cell interactions in development, nuclear-cytoplasmic communication, membrane anchorage, and membrane transport. Successful candidates will be expected to develop new research activities in the area of interest. Send curriculum vitae, research statement, and three letters of recommendation to: Dr. J. B. Pendergast, Chair, Search Committee, Department of Biochemistry, University of Colorado, Boulder, CO 80309.

Applications must be complete by 15 January 1989. The University of Colorado at Boulder has a strong commitment to diversity. In that spirit, we are particularly interested in applications from women, ethnic minorities, and disabled individuals.

ASSISTANT/ASSOCIATE PROFESSOR—Department of Microbiology and Immunology, University of Michigan Medical School seeks an immunobiologist for a tenure-track appointment as assistant or associate professor. The successful applicant will establish an independent research program applying molecular/cell biological approaches to the study of the immune response. The position requires active participation in teaching and clinical medical education. Salary support, a well-equipped laboratory and start-up funds are available from departmental resources. Send curriculum vitae, a brief statement of research interests, and names and addresses of three referees by 30 December 1988 to: Immunology Search Chairman, Department of Microbiology and Immunology, The University of Michigan Medical School, M6644/0620 Medical Science Building II, Ann Arbor, MI 48109-0620.

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ASSOCIATE PROFESSOR OF BIOCHEMISTRY—Tenure-track position is available in the Department of Biochemistry at the University of Michigan Medical Center. Candidates with research interests in molecular, cellular, or developmental biology are encouraged to apply. The Department of Biochemistry has twelve full-time faculty members, is well-equipped, and research includes various aspects of cell biology, metabolism, and functions in diverse experimental systems. Interested applicants should forward curriculum vitae, three letters of recommendation, and a statement of their future research plans to: Dr. Donald B. Sittman, Search Committee, Department of Biochemistry, University of Michigan Medical Center, 508 North State Street, Jackson, MS 35216-4505.

The University of South Alabama is an Affirmative Action/Equal Opportunity Educational Institution.

ASSOCIATE RESEARCH SCIENTIST—Study cis and trans-acting protein in regulation of eukaryotic gene transcription. Send curriculum vitae, and three letters of recommendation to: Dr. P. B. Feigelson, Department of Biochemistry, Institute of Cancer Research, Columbia University, 701 West 165th Street, New York, NY 10032. Columbia University is an Equal Opportunity Employer and welcomes applications from women and minorities.

ASSISTANT/ASSOCIATE PROFESSOR OF BIOCHEMISTRY—The Department of Biophysics and Immunology, University of Michigan Medical School seeks an experienced immunobiologist for a tenure-track appointment as assistant or associate professor. The successful applicant will establish an independent research program applying molecular/cell biological approaches to the study of the immune response. The position requires active participation in teaching and clinical medical education. Salary support, a well-equipped laboratory and start-up funds are available from departmental resources. Send curriculum vitae, a brief statement of research interests, and names and addresses of three referees by 30 December 1988 to: Immunology Search Chairman, Department of Microbiology and Immunology, The University of Michigan Medical School, M6644/0620 Medical Science Building II, Ann Arbor, MI 48109-0620.

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Position available immediately to study psychophysics and psychophysical methods in the perception of sound. The successful candidate will be involved in experiments that use genetic, biochemical, and behavior techniques. Opportunities exist to collaborate in ongoing psychobiological projects. Applicants should send curriculum vitae and the names of at least three references to: Dr. D. W. Dungworth, Chair, Department of Microbiology, University of California, Davis, CA 95616.

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BEHAVIORAL ECOLOGIST—Tenure-track position open in fall 1989, for assistant or associate professor. Candidates must have Ph.D. with research abilities (as demonstrated by publications) in ecologically oriented animal behavior. The successful candidate will strengthen our graduate program in behavioral ecology. The successful candidate will be expected to establish an independent research program. The successful candidate will be expected to teach a variety of courses in behavioral ecology. Opportunities exist to collaborate with the Ecology and Evolutionary Biology Department. The position is open until filled.

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ASSOCIATE ASSOCIATE PROFESSOR—Department of Veterinary Pathology, University of California, Davis. Candidates must have a D.V.M. (or equivalent) and a Ph.D. with advanced training in pathology or experimental pathology. The successful candidate will be expected to complement the expertise of our research-oriented group in biochemistry and pathology. The successful applicant will establish an externally funded research program, and supervise Ph.D. students. Teaching responsibilities include teaching the applicant's expertise primarily at the graduate level. Send statement of research interests, curriculum vitae, and three letters of recommendation by 15 December 1988 to: Professor Wilbur H. Campbell, Search Committee Chairman, Department of Biological Sciences, University of California, Davis, CA 95616. The University of California is an Affirmative Action/Equal Opportunity Employer.

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The Institute is an independent organization located on the campus of The Rockefeller University in New York City. In addition to serving as the home of the Neurosciences Research Program, The Institute is a center of study and research for distinguished visiting neuroscientists. The Institute also supports a program of research in theoretical neurobiology which seeks to develop detailed simulations of neural function that are biologically based and experimentally testable. Current projects include the construction of categorization automata, analysis of synaptic modification mechanisms, and detailed simulations of various cortical and subcortical regions.

Applicants should be at the postdoctoral or assistant professor level. A background in experimental or theoretical neuroscience or related fields is required; training in physics or mathematics will be viewed with favor. Applicants should also have some computer expertise.

Address applications to Dr. W. Einar Gall, Research Director, The Neurosciences Institute, 1230 York Avenue, New York NY 10021. Include a short statement of interests, a curriculum vitae, and the names of three references.

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RESEARCH MICROBIOLOGIST

Due to the continued growth and expansion of Marion Laboratories, Inc., a position is currently available in our Analytical Department for a Research Microbiologist.

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Fellows

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PLANT DEVELOPMENTAL BIOLOGISTS DEPARTMENT OF BIOLOGY

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Please send curriculum vitae, a brief statement of current and future research directions, a statement of teaching interests, and three letters of reference by January 15, 1989, to: Daniel Cosgrove, Search Committee, Department of Biology, 208 Mueller Laboratory, Penn State University, University Park, PA 16802. Phone (814) 863-3892.

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The Connective Tissue Laboratory of the Department of Medicine is seeking P.H.D. or M.D. candidates for a research associate and/or postdoctoral fellow. The laboratory is engaged in studies designed to explore the regulation of collagen biosynthesis and collagen gene mutations in inherited connective tissue diseases. Previous experience in protein chemistry and molecular biology is preferred. Send resume and names of references to: B. Shephard, M.D., and J. Fogo, M.D., Department of Medicine, Box 4135, Duke University Medical Center, Durham, NC 27710. Equal Employment Opportunity Employer.

BIOCHEMISTRY

A small Midwest manufacturer of specialty ingredients for the animal feed industry seeks a biochemist to join its technical sales staff. The position involves contacts with the company's sales force to achieve technical training in the field, and to meet with prospective clients concerning use of the company's products in animal feed. The individual will also be charged with the responsibility of coordinating field experiences with various universities, and writing of technical/sales bulletins. This position involves travel, both within U.S. and abroad. The successful candidate will possess excellent verbal and written communication skills and enjoy communicating science to non-scientists. The position requires a Ph.D. in biochemistry or related field. An excellent compensation package is offered.

Interested applicants are invited to submit their résumé to: J. Harms, Executive Director of Sales and Marketing, Kemin Industries, Inc., P.O. Box 70, Des Moines, IA 50301.

An Equal Employment Opportunity Employer.

BIOCHEMISTRY—ASSISTANT PROFESSOR, tenure-track beginning 1 July 1989, Ph.D. in biochemistry with specialization in medicinal chemistry or molecular biology. Commitment to undergraduate education in a professional school environment. Teaching at the undergraduate level in courses of the college for which the candidate is qualified. Development of a research program is required. Postdoctoral or equivalent program is required. Send curriculum vitae, publications, three letters of recommendation, and official transcripts to: M. Verderame, Ph.D., Chair, Department of Physical Sciences, Albany College of Pharmacy, 106 New Scotland Avenue, Albany, NY 12208.

BIOLOGY FACULTY

The Biology Department of George Mason University is seeking applicants for two or three tenure-track positions, contingent upon funding, to begin 1 September 1989.

APPLIED ECOLOGIST. Applicants with research interests in the management of natural ecosystems and the protective and effects of environmental pollutants are preferred. Teaching responsibilities will likely consist of a course in the applicant's specialty, general ecology and introductory biology. Duties will also include supervision of doctoral students in the Ph.D. program in Environmental Biology—Public Policy.

COMPARATIVE PHYSIOLOGIST. Teaching responsibilities will include undergraduate and graduate courses in physiology and participation in the department core course in animal biology. Applicants with invertebrate research interests and who are capable of contributing to the Ph.D. program in Environmental Biology—Public Policy are preferred.

MOLNAR, R. Biologist. Applications are sought from individual using techniques of molecular biology to study gene function and regulation. Teaching responsibilities include undergraduate and graduate course in molecular genetics and a graduate laboratory course in molecular biology. Postdoctoral experience preferred.

The anticipated positions are at the assistant professor level. The successful candidate will be expected to develop a vigorous, externally funded research program. Candidates must have a Ph.D. by 1 September 1989, and a strong background in research interests, and names of three references by 1 January 1989 to: Chairperson, (state which position) Search Committee, Department of Biology, George Mason University, Fairfax, VA 22030. George Mason is an Affirmative Action/Equal Opportunity Employer.

POSITIONS OPEN

BIOCHEMISTRY FACULTY POSITION

BIOCHEMISTRY/FACULTY POSITION COORDINATED IN MOLECULAR NEUROBIOLOGY, UNIVERSITY OF MICHIGAN

The Biotechnology Department, University of Wisconsin-Madison, invites applications for a position at the assistant, associate or full professor level. We are particularly interested in candidates whose research emphasis involves molecular neurobiology. Outstanding individuals in other areas of biochemistry will be considered. The successful candidate is expected to develop a vigorous research program and to participate in the department's undergraduate and graduate teaching programs. Applications, including curriculum vitae, publication lists, summary of work and accomplishments, and a statement of future research plans, should be sent to: Professor William S. Renzloff, Chair, Department of Biochemistry, University of Wisconsin-Madison, 420 Henry Mall, Madison, WI 53706. In addition, applicants should arrange for three letters of reference to be mailed to the same address. To assure consideration, all application materials should be received by 1 January 1989. The University is an Affirmative Action/Equal Opportunity Employer, and encourages applications from women and minorities.

Indian University, Bloomington—Biochemistry. The Department of Chemistry at Indiana University, Bloomington, is seeking applicants for an anticipated tenure-track faculty position at the junior and senior level. The department is seeking the strongest individuals it can find, preferably with interests in structure-function relationships; enzyme reaction mechanisms, signal transduction, neurochemistry, membrane structure and assembly, protein-nucleic acid interactions, and aspects of physical biochemistry. Applicants at the senior faculty level must have achieved a position of leadership in their field of research while applicants at the assistant professor level must show exceptional promise of establishing a vigorous independent research program in an academic setting. To apply, submit curriculum vitae, publication list, names of references, and a short outline of ideas for the development of research programs. Candidates at the junior level should arrange to have three letters of recommendation forwarded as well. Deadline for applications is 1 December 1988. Please apply to:

Paul A. Greco, Chairman, Department of Chemistry, Indiana University, Bloomington, IN 47401

Indiana University is an Equal Opportunity/Affirmative Action Employer.

BIOPHYSICIST

BIOLOGY: ASSISTANT PROFESSORSHIP, tenure-track, available fall 1989, for a candidate with a broad biological background and a specialty in zoology. The successful candidate will have a Ph.D. and no more than 5 years of teaching experience. Responsibilities will include one semester of general biology which covers diversity and physiology of living organisms, two upper division courses in a specialty such as endocrinology, immunology, mammalogy, or evolution, and possible participation in an interdisciplinary course. Undergraduate teaching is the highest priority; research, preferably involving undergraduates, and scholarly achievement are expected as are advising students and serving on committees. Experience in a small college setting is desirable.

Urinius College is 30 miles northwest of Philadelphia in a suburban setting and is a highly selective, residential, coed, liberal arts college with 1,200 students and a long tradition of academic excellence.

Send letter of application, curriculum vitae, and names, addresses and telephone numbers of three references to: Dr. Peter F. Small, Biology Department, Urinius College, Collegeville, PA 19426, by 1 January 1989.

Urinius College does not discriminate on grounds of race, color, national origin, sex, age, or handicap.

BIOLOGIST:—responsible for synthesizing peptide for R&D. Ph.D. in biophysics and 1 year of experience as molecular biophysicist required. Experience must include synthesizing and designing peptides. 30% of time will be administrative. To apply, send reference to: Philadelphia Job Bank, 444 North 3rd Street, 3rd Floor, Philadelphia, PA 19123. Refer to #4208521.

BIOCHEMISTRY/ASSOCIATE PROFESSOR, for well-trained or experienced candidates in biochemistry and molecular biology. The Department expects to fill four positions in 1989. Successful applicants will be expected to develop and maintain a funded research program of high quality and to contribute to the teaching programs in the medical, veterinary, dental and allied health school teaching programs of the Department. Applicants should send curriculum vitae, names of four individuals who may be contacted for reference, and a summary of research projects to: Ifanyi J. Arini, Ph.D., Chairman, Department of Biochemistry, Meharry Medical College, Nashville, TN 37208.

UNIVERSITY OF CALIFORNIA LOS ANGELES

SCIENCE, VOL. 242

SCHOOL OF MEDICINE BIOLOGICAL CHEMISTRY

The Department of Biological Chemistry is recruiting at the level of ASSISTANT PROFESSOR (tenure-track) beginning 1989. We are seeking candidates with research interests in any modern area of molecular, cellular, or developmental biochemistry. Applicants should submit curriculum vitae and a summary of research plans, and names of three references to:

Dr. James Paulson, Chair, Search Committee Department of Biological Chemistry UCLA School of Medicine Los Angeles, CA 90024—1737

The University of California is an Equal Opportunity Employer; applications from women and members of minority groups are encouraged.

BIOLOGIST: The Biology Department of William Jewell College invites applications for a tenure-track assistant/associate professorship in biology beginning fall 1989. The candidate should have a Ph.D. in physiology and some teaching experience preferred. Address letters of application by 21 November 1988 to: Dr. Judith A. Dilts, Chair, Department of Biology, William Jewell College, Liberty, MO 64068 (Telephone: 816-781-2700). William Jewell is an Affirmative Action/Equal Opportunity Employer and specifically encourages applications from minorities.

PENN STATE BIOLOGY FACULTY POSITIONS

The Department of Biology, The Pennsylvania State University, invites applications for two tenure-track appointments available August 1989. Hazleton Campus, Hazleton, Pennsylvania. Duties include teaching general biology and basic human anatomy, physiology, and the history of life. Candidates should hold a Ph.D. in biology and be committed to the Penn State Hazleton campus. Application deadline for the 1989 appointment is 1 December 1988. Send curriculum vitae, letter of reference, and names of three references to: Dr. William Neff, Box G, 209 Mueller Laboratory, University Park, PA 16802.


BOTANY. Mariboro College, recipient of a Howard Hughes grant to promote science education, invites applications for a tenure-track ASSISTANT PROFESSOR position beginning between 1 June and 1 Septem ber 1989, to possibly teach earth science. Environmental emphasis sought to join seven person natural science department. Additional experience in physical geography, geology, climatology, or forestry preferred. Primary responsibility to teach undergraduates, including directing senior research projects. Ph.D. required. Women and minorities encouraged to apply. Send curriculum vitae, letter of reference, and names of three references to: Dr. John W. Hayes, Dean of Faculty, Marlboro College, Marlboro, VT 05344. Equal Opportunity Employer.
NEUROBIOLOGISTS

MOLECULAR BIOLOGISTS

Regeneron, a newly formed molecular neurobiology corporation, has openings for highly qualified, innovative individuals to serve as staff scientists, postdoctoral fellows, and technical research associates in Neurobiology and in Molecular and Cell Biology. Regeneron was organized by a team of preeminent neurobiologists, molecular biologists, biochemists and neurologists. We are committed to study the control of neuronal growth and regeneration and to develop novel therapeutic approaches to nerve degeneration resulting from disease, traumatic injury, or aging. Regeneron is well positioned, scientifically and financially, to mount a focused attack on these major health problems.

Positions in Neurobiology require expertise in any of the following areas:

- Neuronal Cell Culture
- Animal Models
- Neurotrophic Factors
- Histology
- Neuropharmacology
- Extracellular Matrix

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

- Molecular Cloning
- Gene Expression
- Protein Biochemistry
- Receptors
- Monoclonal Antibodies
- Transgenics

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

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

Please send your resume, in confidence, to:

Ms. Carol Deaken, Regeneron
Suite 12 M, 1320 York Avenue
New York, NY 10021

Regeneron is an equal opportunity employer.

DIRECTOR,
NEUROTOXICOLOGY DIVISION

The U.S. Environmental Protection Agency (EPA) is seeking candidates for the position of Director, Neurotoxicology Division (NTD). This position is located in the Health Effects Research Laboratory (HERL), Research Triangle Park, NC. This is a permanent full-time position with a salary range of $54,907 to $71,377 per annum commensurate with qualifications.

HERL has a staff of about 325, over 100 of whom hold doctoral level degrees. The Laboratory has a diverse program which includes in vitro, animal, human clinical, and epidemiological research designed to address issues related to the health effects of air and water chemical and biological pollutants.

THE NTD is a multidisciplinary program organized into three branches: Behavioral Toxicology, Neurophysiology and Systems Engineering, with a combined staff of 33. The Division is a focal point for planning, conducting, coordinating, supporting and evaluating a program aimed at studying the effects of chemical and/or physical agents on nervous system functions. The program includes both intramural investigations and extramural arrangements with universities, industry, private research institutions and other government agencies. The primary responsibilities of the Director are to direct and manage the program. This includes developing the program to meet the evolving needs of EPA, presenting the program, developing and managing budgets, supervising the staff, directing the progress of the program, and ensuring the scientific quality and productivity of the program.

Qualifications for the position include:

1. Bachelor’s degree in Pharmacology, Toxicology, Psychology, Physiology or Biology with a minimum of six years of professional research experience in any of these areas. Applicable graduate coursework may be substituted for a portion of the required experience. This required education and experience must include a substantial background in neurotoxicology.

2. Experience in developing and managing budgets.

3. Experience as supervisor of a scientific/professional staff.

4. Applicants must have recognized scientific expertise as evidenced by multiple publications in peer-reviewed literature and invitations to participate in national and international meetings/panels.

5. Proven ability to provide leadership in directing the development and progress of a creative and effective research program in neurotoxicology.

6. U.S. Citizenship is required.

Forward curriculum vitae and names of three references prior to November 18, 1988 to:

Dr. Lawrence W. Reiter
c/o Terri Burrell, HRMD (MD-29)
U.S. Environmental Protection Agency
Research Triangle Park, NC 27711

AN EQUAL OPPORTUNITY EMPLOYER
CELL-BIOLLOGIST—Tenure-track position in fall 1989, for assistant or associate professor. Candidates must have Ph.D. with research abilities (as demonstrated by publications) in basic biology working at the level of the cell membrane. The successful candidate will have an interest in receptors, membrane-cytoskeletal interactions, transduction of signals, or a similar area. Postdoctoral experience is preferred. Teaching responsibilities include courses in cell biology. Send curriculum vitae, four letters of recommendation, representative reprints, and description of research plans to: Dr. James N. Thompson, Jr., Chairman, Department of Zoology, University of Oklahoma, Norman, OK 73109. An Equal Opportunity/Affirmative Action Employer.

CHEMISTRY

The College of Staten Island of the City University of New York has a tenure-track position for a POLYMER CHEMIST OR A PHYSICAL CHEMIST interested in participating in the university's Ph.D. program in polymer chemistry or biochemistry. Preference will be given to candidates in the area of biopolymers, inorganic polymers, or physical chemistry of polymer chains. The successful candidate will be expected to join the college's undergraduate chemistry curriculum, especially in physical chemistry and general chemistry. The candidate should be interested in actively pursuing outside grant support. Rank is open with salaries beginning at $27,000 for assistant professor and up to $65,000 for professor. Facilities for research include newly acquired instruments for gel permeation chromatography and 400 MHz FTIR, thermal analysis, GPC, HPLC, and osmometry. To start on 1 January 1989. The College is a 4-year senior college in the City University of New York and is scheduled to move to a new 200-acre campus in 1992. Send curriculum vitae and names of three referees by 31 January 1989 to: Professor Fred Nalder, Chairperson, Department of Chemistry, College of Staten Island, 2800 Victory Blvd., Staten Island, NY 10314. Equal Opportunity/Affirmative Action Employer.

CELLULAR NEUROPHYSIOLOGIST

The Department of Physiology invites applications for a tenure-track position at the assistant professor level. Preference will be given to persons using biophysical and molecular approaches to study synaptic physiology and membrane excitability. The successful candidate will be expected to establish an active research program and to participate in the teaching of medical and graduate students. The department will provide ample start-up funds, laboratory space, and access to our staffed electron microscopes and machine shops. Extensive opportunities exist for interactions with other neuroscientists within the department and in the campus-wide Center for Neuroscience. Salary is competitive and commensurate with M.D. and/or Ph.D. postdoctoral experience. Send curriculum vitae, summary of research interests, and names of three references to: Genetics, Search Committee, Department of Physiology, University of Pittsburgh School of Medicine, Pittsburgh, PA 15261. The University is an Equal Opportunity/Affirmative Action Employer.

CHAIRMAN/CHAIRWOMAN
DEPARTMENT OF BIOLOGICAL SCIENCES
FLORIDA ATLANTIC UNIVERSITY

The Florida Atlantic University Department of Biological Sciences invites nominations and applications for the position of Chairman/Chairwoman. Applicants should have a distinguished record of achievement in research, a commitment to excellence in teaching, demonstrated skills in administration, and an interest in leading a diverse faculty engaged in research through the development of a Ph.D. program. The department currently offers baccalaureate- and master's-level degree programs. Successful candidates will be expected to maintain an active research program and teach at both the graduate and undergraduate levels.

Nominees, inquiries, and applications (to include curriculum vitae, a description of research activities and administrative experience, and the names of three references) should be sent to: Dr. Don W. King, M.D., Chairman, Search Committee, Department of Neurology, Medical College of Georgia, Augusta, GA 30901. Equal Opportunity Employer/Minority University.

CHEMIST

The Ohio State University seeks M.D., Ph.D., or M.D./Ph.D. for Leonhard and Charlotte Imkmeir Chair for Cancer Research in Medicine, including the new Arthur G. James Cancer Hospital and Research Institute. M.D. candidates should be Board-certified in internal medicine. Ph.D. candidates should have experience and/or research background in experimental medicine. Interested applicants are invited to submit a curriculum vitae, letter of interest, and names of three referees to: Dr. Charles D. LeBlond, Director, Cancer Research, and references to: Imkmeir Search Committee, 410 West Tenth Avenue, N-1017 DN, Columbus, OH 43210. Preference will be given to applications received 1 December 1988. Equal Opportunity/Affirmative Action Employer.

CHIEF, INFECTIOUS DISEASES BIOTECHNOLOGY CORE FACILITY

The Center for Infectious Diseases (CID), Centers for Disease Control (CDC), is seeking a chief for a newly formed facility involved with biological macromolecular structure determination, sequencing, and synthesizing. This facility will consist of several state-of-the-art instruments, including oligonucleotide and peptide synthesizers, nuclide and protein sequencers, amino acid analyzers, and various support/preparative analysis equipment. The chief will interact and collaborate with other scientists within all components of the Center for Infectious Diseases. We are seeking an individual with a strong commitment to maintaining a laboratory of emerging technology. Responsibilities include: (1) research orientation with 120 faculty, 60 residents and fellows, and 9 affiliated facilities. It is currently undergoing building and planning activities that may begin as early as Spring 1989 and be completed by 1990. Facilities will be ready for occupancy in Fall 1989. The position involves coordination and interaction with the above design project. Salary is negotiable. Further information may be obtained from Dr. Leonard W. Mayer, Chair, CID Core Facility Advisory Committee, Building 1, Room 224, M.D., Centers for Disease Control, 1600 Clifton Road, Atlanta, GA 30333. Interested candidates may send their curriculum vitae and names of three professional references by 31 December 1988 to: CDC, OPM, Attention: Sharyn Wilkinson, Building 1, Room 1058, MS: D01, 1600 Clifton Road, Atlanta, GA 30333. CDC is an Equal Opportunity Employer and provides a smoke-free work environment.

CHIEF, DEPARTMENT OF SMALL ANIMAL CLINICAL MEDICINE
COLLEGE OF VETERINARY MEDICINE
MICHIGAN STATE UNIVERSITY

Michigan State University invites applications and nominations for the position of Chief, Department of Small Animal Clinical Sciences. This diverse 34-member department has strong clinical, teaching, and research programs. A $45-million building and a new project are in progress. Within the next few years, the department will occupy the new facility, which will provide a unique opportunity for growth and development.

Candidates should possess a D.V.M. (or equivalent), have an excellent record in research and teaching, be sensitive to the needs of the Control, and have demonstrated ability in providing academic leadership. An advanced degree (M.S., Ph.D.) and Board-certification in a clinical specialty are desirable.

Michigan State University is an Equal Opportunity/Affirmative Action Employer. Applications and nominations of women and/or minority candidates are encouraged.

DEVELOPMENTAL BIOLOGIST

The Department of Cell Biology and Anatomy at Oregon Health Sciences University invites applications for a tenure-track faculty position at the level of assistant or associate professor. We are looking for an individual with a strong research background in developmental biology or neurobiology, and who is currently using cellular and molecular biological approaches and equipment. The candidate is expected to develop an independent, competitively funded research program, and to participate in the teaching of graduate and/or undergraduate students. Send curriculum vitae, complete reprints, and the names of three references by 1 January 1989 to: Dr. Gary Ciment, Department of Cell Biology and Anatomy, OHSU (L216), School of Medicine, Oregon Health Sciences University, Portland, OR 97201. Equal Opportunity/Affirmative Action Employer.
California State University, Long Beach
Dean, School of Natural Sciences

California State University, Long Beach is a large, comprehensive University with a student body of 34,000 and 2,000 full- and part-time faculty, offering 67 baccalaureate and 54 master's degrees in the liberal arts and applied and professional fields. The School of Natural Sciences, which is comprised of the departments of Anatomy and Physiology, Biology, Chemistry and Biochemistry, Geologic Sciences, Microbiology and Physics/Astronomy, as well as the Science Education Program and the Center for Environmental Studies, has an enrollment of 2,193 full-time-equivalent students and 202 full-time and part-time faculty.

An earned doctorate and eligibility for faculty appointment in a department of the School are required, as is college or university teaching experience, a record of research or creative activities, and administrative experience. Appointment effective June 1, 1989, or as soon thereafter as possible.

Applications must be received and/or postmarked no later than Monday, November 21, 1988.

Letters of application, nominations, resumes, letters of recommendation, or requests for additional information should be sent to:

Dr. June Cooper
Vice President for Faculty and Staff Relations
California State University, Long Beach
1250 Bellflower Boulevard
Long Beach, California 90840

An Equal Opportunity Affirmative Action Employer

Molecular Neurobiology

Faculty Positions

The Ohio State University is expanding its search for faculty at all levels with expertise in gene expression in the nervous system to complement existing strengths in developmental neurobiology, neural plasticity and regeneration, structural chemistry, receptor-mediated events and molecular genetics. The College of Medicine and the Biotechnology Center have designated Molecular Neurobiology as a top priority for development. Three to five tenure track positions at the Assistant to Full Professor level are available now at the Ohio State Biotechnology Center, with appointments in appropriate academic departments. At least five additional appointments will be made as the core group develops. Candidates qualified for appointment to Professor may also be considered for the position of Associate Director of the Biotechnology Center.

These positions offer newly remodeled laboratories, start-up funds and the opportunity to participate in the development of new interdisciplinary programs at a University committed to excellence in research and graduate education.

Send nominations, or applications including C.V., a brief statement of research plans, and the names of three references to: Dr. P.E. Kolattukudy, Director, Ohio State Biotechnology Center, 206 Rightmire Hall, 1060 Carmack Road, Columbus, OH 43210-1002. Equal Opportunity/Affirmative Action Employer.

Physical Oceanographer

Department of Physical Oceanography seeks applicants for appointment to Assistant, Associate or Senior Scientist level depending upon background, experience and tenure suitability. Ph.D. in physical oceanography or related field, postdoctoral experience and demonstrated expertise in oceanography preferred. Experience in acquisition and analysis of observations or in development of dynamical models of ocean processes desired.

Send curriculum vitae, short statement of research interest and publication list by April 15, 1989 to:

Dr. Robert R. Beardsley
Chairman, Department of Physical Oceanography
Box 54P

WODS HOLE
OCEANOGRAPHIC
INSTITUTION

Woods Hole, MA 02543
An equal opportunity employer M/F/H/V

Abbott Fermentation Research
Runs A Steady Course

Advanced research projects that are well conceived, well funded and well managed are par for the course at Abbott Laboratories. We're a $4.4 billion world leader with an outstanding reputation for management and technical strengths. Those strengths show through in our Chemical and Agricultural Products Division and the career opportunities we offer.

Microbial Geneticist:
Fermentation R&D

We are seeking a PhD with 3-5 years post-doctoral experience in microbial genetics or biochemistry to join a strain development program. Industrial experience with antibiotic-producing microorganisms is preferred. The selected candidate will have strong interpersonal and written communication skills.

Abbott Laboratories is headquartered in an attractive suburban area north of Chicago. We provide an excellent salary and benefits program featuring profit sharing and employee stock retirement plans. For more information, send a resume in confidence to: Charles Murphy, Corporate Placement, Abbott Laboratories, Dept. SCI/11-4, Abbott Park, IL 60064. Abbott Is An Affirmative Action Employer.

ABBOTT LABORATORIES

Quality Health Care Worldwide
1988-1988
POSITIONS OPEN

COMPUTER INSTRUMENTATION PROGRAMMER

Complete Carbohydrate Research Center (CCRC) of the University of Georgia is seeking a Project Director for Computer Operations. The CCRC, currently with 70 members and 7 faculty, expects to grow in 3 years to about 100 members and 10 faculty. The CCRC has a large number of sophisticated, computer-controlled analytical instruments, 30 computers (microcomputers, workstations, minicomputers), over half of which are on a LAN, and numerous PC-based databases. The computer instrumentation manager/programmer is responsible for the CCRC computer and hardware (purchase, chase, installation, instruction, operation, maintenance, as well as design of operating and database programs) and will invent new ways to use computers to further develop carbohydrate science. Position requires general knowledge of analytical instrumentation and chemical/biochemical science, extensive computer hardware and programming experience (IBM, HP and DEC operating systems), and a demonstrated ability to teach colleagues, collaborate with researchers, and supervise personnel. B.Sc. required, M.Sc. preferred. Salary about $50,000 commensurate with experience. Application deadline 30 November 1988; position to be filled by 1 January 1989. Apply to: Dr. Peter Albersheim and Alan Davrill, Co-Directors, Complete Carbohydrate Research Center, P.O. Box 5677, Russell Labs, Athens, GA 30613. An Affirmative Action/Equal Employment Opportunity Institution.

UNIVERSITY OF MINNESOTA

DEAN COLLEGE OF VETERINARY MEDICINE

The University of Minnesota is seeking a dean for its College of Veterinary Medicine (CVM). The dean is the chief executive officer of the College and also serves as an assistant director of the University's Cultural Experiment Station. Candidates for this position must be a doctor of veterinary medicine and have a record of accomplishments appropriate for a terminal appointment in the CVM. Desired qualifications include: 5 years of administrative experience, a graduate degree in a relevant discipline, an understanding of the historical trends in veterinary medicine, education, research and practice, and a commitment to the service aspects of veterinary medicine. This individual should demonstrate administrative ability, possess a strong academic background with demonstrated excellence in teaching and research, and have an appreciation of the importance of service; enjoy a national reputation; and display a commitment to excellence. It is particularly important that the individual be able to develop and maintain effective relations with related units within the university, with private and federal research funding agencies, with veterinary professional organizations, and with practicing veterinarians throughout the state. Salary will be commensurate with experience and qualifications.

Closing date for applications, to include letter of interest and curriculum vitae, and/or letters suggesting names of potential candidates, must be received by 6 January 1989, sent to:

Chair, Advisory Search Committee
Dean, College of Veterinary Medicine
428 Morrill Hall
100 Church Street SE
Minneapolis, MN 55455

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

ENTOMOLOGIST

The Academy of Natural Sciences seeks an outstanding systematic entomologist for the career-track position of assistant curator. Applicants should have a world-wide perspective on the biogeography and evolution of insects. Only applicants can cite an authority in aquatic entomology. The candidate must have a Ph.D. and is expected to develop a strong, grant-supported research program in support of the Academy's collections, especially in his/her taxonomic specialty. This position includes opportunities for adjunct appointment and graduate students at The University of Pennsylvania. Send curriculum vitae, statement of research/career goals, and names of three references by 15 January 1989 to: Dr. Fred Sheldon, Academy of Natural Sciences, 19th and the Parkway, Philadelphia, PA 19103. The Academy of Natural Sciences is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

UCSD SCHOOL OF MEDICINE

DEAN, 1st: BIOLOGY AND SCIENTIFIC AFFAIRS

The University of California, San Diego (UCSD), School of Medicine, is seeking a senior academic scientist of distinction to work closely with the vice chancellor to provide overall leadership for the conduct of academic and scientific affairs at our institution. Located in La Jolla, California, UCSD is a research-intensive academic medical center that emphasizes commitment to teaching. As one of the senior individuals responsible for the administration of the Office of the Dean, the Dean for Academic and Scientific Affairs will serve as deputy dean in these areas of interest.

The Dean will be appointed in the appropriate department of his/her academic discipline. Salary and appointment level will be determined in consultation with the candidate's qualifications and will be based on UCD pay scales. An M.D. or Ph.D. degree is required. Candidates should forward curriculum vitae and bibliographic information to:

Gerald N. Burrow, M.D.
Vice Chancellor and Dean
UCSD School of Medicine
M-002
La Jolla, CA 92039-0062

To be assured of consideration, applications must be received by 1 January 1989. The University of California is an Equal Opportunity/Affirmative Action Employer.

ELECTRON MICROSCOPIST/CYTOLOGIST

The Grace Cancer Drug Center of Roswell Park Memorial Institute seeks an electron microscopist cytologist to conduct research and to assume responsibilities in the electronic microscopy unit. The candidate will:

(a) establish an independent scientific program in the area of non-cytochemical electron function and organization and (b) interact on a collaborative basis with other staff members in research problems related to ultrastructural localization of oncogene products, anticancer drugs and membrane-associated proteins. Applicants should have 1 to 2 years of postdoctoral experience with expertise in various localization strategies and in the use of monoclonal antibodies. Please send resume to: Dr. Enrico Mihich, Chairman, Grace Cancer Drug Center, Roswell Park Memorial Institute, Elm and Carlton Streets, Buffalo, NY 14263. An Equal Opportunity Employer.

ENVIRONMENTAL SCIENTIST

The Board on Environmental Studies and Toxicology (BEST) of the National Research Council invites applications for a project manager for a study of opportunities in applied environmental research and a review/evaluation of hazardous materials management in the Bureau of Land Management. Responsibilities include writing reports, reviewing, research papers, and preparing technical reports. Positions require a Ph.D. or equivalent, and significant experience in environmental science, policy, and/or hazardous materials management at least 5 years. Salary of $33,000 to $42,000. Applications must be received by 8 January 1989. The National Research Council is an Equal Opportunity Employer.

ENVIRONMENTAL SCIENTIST

Limnologist/aquatic biologist to conduct water quality and ecological studies in freshwater systems. Strong statistical background, good writing skills are essential. Minimum requirement is bachelor's degree in limnology, biology or ecology and 5 years of experience with 1 year in a supervisory capacity. Excellent benefits. Obtain application from: Southwestern Florida Water Management District, 2379 Broad Street, Brooksville, FL 34609-6899. Veterans preference is given in accordance with state law.

Equal Opportunity Employer/Affirmative Action

POSITION ANNOUNCEMENT

NEUROBIOLOGIST

The Department of Cell and Structural Biology at the University of Illinois Urbana-Champaign invites applications for a TENURE-TRACK position in NEUROBIOLOGY at the Assistant Professor level in the College of Medicine. The position is available August 21, 1989. Applicants must hold the Ph.D. and/or M.D. degree and show exceptional promise in research, which preferably should address cell and molecular issues in neurobiology. Salary will be commensurate with rank and experience. Duties will include participating in the teaching of neuroscience to medical and graduate students. The UIUC offers exceptional and broad-based supporting resources. These include the Biomedical Magnetic Resonance Laboratory, Center for Electron Microscopy, Center for Biotechnology, and Cell Science Center. The UIUC is a National Center for Supercomputing Applications and is home to the Beckman Institute for Advancing Science and Technology. Applicants are requested to send a curriculum vitae, a summary of research interests, and three letters of reference to:

Dr. J. A. Weynemeyer
Search Committee Chairman
Department of Cell and Structural Biology
University of Illinois
505 South Goodwin Avenue Urbana, Illinois 61801

Telephone: (217) 333-6118

In order to ensure full consideration, applications should be received by January 15, 1989. Interviews may be conducted before January 15, 1989, but all applications received by that date will receive full consideration and the final selection will be made after that date. The University of Illinois is an Affirmative Action/Equal Opportunity Employer.

MOLECULAR BIOLOGIST

CB RESEARCH INTERNATIONAL CORPORATION

CB Research International Corporation (CBR), a newly formed biotechnology company located in Long Beach, California, is seeking an outstanding Ph.D. level scientist to establish a research program which will be directed toward the application and function of stress-induced proteins in response to extreme environmental conditions. The preferred candidate will have at least two years of postdoctoral experience with a proven record of independent research potential. The position requires a background in molecular and cell biology with experience in the identification of gene products by biochemical and immunological techniques. This position offers an opportunity to work together with many of the leading scientists in the area of molecular genetics, biochemistry and cell biology of the heat shock/stress response with the potential to develop important applications of stress proteins.

Please send two copies of your resume before December 1, 1988 to:

CB Research International
4404 East Pacific Coast Highway
Long Beach, CA 90804

USA

804

National Research Council (NRC) is an Equal Opportunity Employer/Technology. Please note that the CBR position involves working with high-risk human and animal tissues.
RESEARCH FELLOW OR
SENIOR RESEARCH FELLOW
IN
NUTRITIONAL BIOCHEMISTRY
OF CANCER
This appointment is to receive training
and pursue research concerned with
Nutritional Biochemistry as it relates to
Cancer Etiology and Prevention. The
appointee will have a Ph.D. in Nutri-
tional Biochemistry, or related research
areas of Cell Biology. Alternatively,
training in Molecular Biology, with an
interest in nutritional regulation of
gene expression would be appropri-
ate. The methods involve tumor cell
culture, identification of oncogenes
and their products in human cancer
tissues, and assays for related growth
factors.
The post has the potential for becom-
ing a career position at the American
Health Foundation.
Please submit resume to:
DR. DAVID P. ROSE
AMERICAN HEALTH
FOUNDATION
1 DANA ROAD
VALHALLA, NY 10595
An equal opportunity employee
m/f/h/v

DIRECTOR
CARDIOVASCULAR/
PULMONARY
RESEARCH INSTITUTE
Deborah Research Institute has a
position available for Ph.D. with
broad research experience to serve
as Scientific Director of our cardio-
vascular and pulmonary institute.
The successful candidate should
have experience with myocardial
protection, new perfusion methods,
left-ventricular assist devices, laser
surgery, heart transplantation re-
search or valve and blood vessel
transplantation research.
In addition, the candidate will be
able to bring about a balance be-
tween basic and clinical research,
as well as direct efforts in extramu-
ral grant writing, grant distribution
and the direction and planning of
the scientific activities of our
institute.
We adjoin Deborah Heart and Lung
Hospital. For confidential consider-
ation, please forward your resume
to:
Chairman of the Board

DEBORAH RESEARCH
INSTITUTE
Trenton Road
Browns Mills, NJ 08015
Equal Opportunity Employer

Professional Positions in
Biotechnology
Life Technologies, Inc., a leader in
biotechnology applications to
research and industry, is currently
seeking candidates for openings in
these areas:

Molecular Biology
Biochemistry
Enzymology
DNA Diagnostics
Immunology

GIBCO and BRL are Life Technologies' leading brands in the
field of cell and molecular biology research products and our
success in the marketplace has resulted in a number of new
professional positions.

Scientists
• Ph.D. in immunology or related field. Proven record of
creativity and productivity. Experience in directing a research
or development group.
• Ph.D. in biochemistry/molecular biology/molecular virology
and 2-4 years post-doctoral training in enzymology or
molecular biology.
• Ph.D. in microbial genetics or physiology and several years
post-doctoral experience in a related position.
• Ph.D. in molecular biology and 2-3 years experience in
diagnostic products or genome analysis — mapping,
sequencing or related area.

Biochemist/Lab Technicians
• B.S. in biochemistry, immunology, biology, chemistry or
health sciences; M.S. and/or practical experience required
for some positions.

Please send resume or C.V. to:
Richard L. Hotaling, Jr.
Personnel Manager, Dept. S
GIBCO/BRL, Life Technologies, Inc.
8717 Grovemont Circle
Gaithersburg, MD 20877
(A suburb of Washington, DC)

An equal opportunity employer M/F/V/H
**POSITIONS OPEN**

**ELECTROPHORESIS PRODUCT DEVELOPMENT**
We have an interesting position available for a person with these qualifications: Ph.D. in biochemistry or related field; superior skills in electrophoresis theory and practice; demonstrated writing ability. For immediate attention send resume to: Dr. Joe Tehrani, ISCO, INC., P.O. Box 5347, Lincoln, NE 68505. Telephone: 402-464-0231. Equal Opportunity Employer.

**ENVIRONMENTAL HEALTH**
The Program in Social Ecology at the University of California, Irvine, is recruiting for an ASSISTANT PROFESSOR, tenure-track, position in the area of environmental health. The Program is interested in recruiting individuals with expertise in environmental toxicology, genetics, molecular or cellular biology, or biochemistry. Applicants must have a Ph.D. in environmental health or a related field and postdoctoral experience. The initial appointment will be at the assistant professor level. The salary is competitive with other UC institutions and is dependent on qualifications and experience. Initial position is expected to begin in January 1989. Application materials should be addressed to: Professor G. C. Dobbs, Director, Program in Social Ecology, University of California, Irvine, CA 92717. Telephone: 714-644-3474. Equal Employment Opportunity/Affirmative Action Employer.

**THE UNIVERSITY OF CHICAGO**
The Joseph P. Kennedy, Jr. Mental Retardation Research Center and the Department of Pharmacological and Physiological Sciences at the University of Chicago are recruiting new FACULTY with research interests related to the molecular and cellular biology of the nervous system. Applicants should send three letters of recommendation with bibliography, a brief statement of research interests and plans, and the names of three references to: Dr. Robert L. Perlman, Director, Kennedy Research Center, Department of Pediatrics, The University of Chicago, 5841 South Maryland Avenue, Chicago, IL 60637.

**FACULTY POSITION: CARDIAC FUNCTION**
A research position is available at The Graduate Hospital at the equivalent assistant professor level for an individual with an M.D. or Ph.D. degree and background in the study of cardiac function in health and disease. Candidates are expected to have demonstrated research experience in one or more of the following areas: cardiac function in the intact subject; function of the isolated working heart; or mechanisms of isolated cardiac muscle. To apply, send a letter of interest, including the names and addresses of three references, to Dr. Frederick van Tassel, Director, Department of Human Genetics, University of Michigan, Ann Arbor, MI 48109–0618. An Equal Opportunity/Affirmative Action Employer.

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Professor
NSERC Industrial Research Chair in Protein Crystallography
Faculty of Medicine
University of Toronto

Applications are invited for a tenured position as Full Professor in the Department of Biochemistry, with cross-appointment to the Department of Medical Genetics. The position is an NSERC Industrial Research Chair and carries with it funds for: an area detector-based diffraction system, graphics hardware, maintenance costs, supercomputer time, research associate salary, start-up and renovation costs. The successful candidate will have demonstrated ability to establish an internationally competitive research program in protein crystallography and to collaborate on a wide variety of crystallographic problems. An interest in sharing facilities with industry-based investigators is necessary. Candidates must have a Ph.D. or equivalent degree. The incumbent will be responsible for conducting an internationally competitive research program in protein crystallography. Salary will be commensurate with experience.

Closing date for applications is December 2, 1988, and the appointment will be made as soon thereafter as possible. Please submit a curriculum vitae and the names of three referees to: Dr. Jeremy Carver, Department of Medical Genetics, or Dr. Harry Schachter, Department of Biochemistry, University of Toronto, Toronto, Ontario, Canada M5S 1A8.

The University of Toronto encourages both men and women to apply for positions.

DEPARTMENT OF BIOLOGY
PENN STATE
MOLECULAR BIOLOGY
AND EVOLUTION

The Department of Biology, The Pennsylvania State University, solicits applications for an appointment at the assistant or associate professor level from biologists who have research interests in the evolutionary aspects of gene structure, organization, function, or regulation. We are especially interested in persons who will establish mutually beneficial interactions with members of an existing group of geneticists studying various aspects of molecular evolution.

A Ph.D. with research specialization in molecular biology and several years of productive postdoctoral research are required.

Applicants should send a curriculum vitae, statement of research interests and goals, reprints of recent publications, and names and addresses of three references, by January 15, 1989, to:

Dr. Thomas Whittam, Search Committee
516 Mueller Lab
The Pennsylvania State University
University Park, PA 16802
(814) 863-1970

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Women and Minorities Encouraged to Apply

TOXICOLOGIST

Lorillard, Inc., a leading manufacturer of tobacco products, has an immediate entry-level opening for a PhD Toxicologist at our Greensboro, N.C. Research Center.

The successful candidate's primary responsibilities will include study monitoring, report evaluation, and protocol development for an extramural toxicology testing program. Participation in any of several in-house toxicology research and testing activities will be encouraged.

Requirements include a PhD degree and excellent communication skills. An ability to accurately read, evaluate, and interpret scientific data and literature is required, as are the writing skills necessary to communicate key elements to others. Experience with in vitro and in vivo toxicity assessment and inhalation, genetics, and biochemical toxicology is desirable.

Lorillard offers a comprehensive flexible benefits package, a competitive salary and relocation. Qualified candidates should send their resume and salary requirements to: E.S. Jessup, Lorillard Research Center, P.O. Box 21685, Greensboro, N.C. 27410.

Lorillard
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Research Opportunities at Pfizer

Pfizer, a U.S. based multinational pharmaceutical company, has immediate openings for scientists in its Metabolic Diseases Drug Discovery program. You will join a multidisciplinary team at the Central Research Facilities in Groton, Connecticut seeking novel therapeutic agents for the treatment of atherosclerosis.

You should possess an MS or BS degree in physiology, biochemistry or cell biology with relevant laboratory research experience. In addition, you should have experience in one or more of the following:

- Lipoprotein metabolism
- In vivo models of atherosclerosis
- Bile acid metabolism
- Tissue culture

In addition to a stimulating scientific environment, we offer a competitive compensation/benefit package and relocation assistance to an attractive southeastern Connecticut shore community. Please send a resume, description of research experience and names of three references to: Mrs. Lorraine C. Corr, Personnel Associate, Pfizer Central Research, Eastern Point Road, Groton, CT 06340. An equal opportunity employer.

Pfizer
An Equal Opportunity Employer M/W/D
POSITIONS OPEN

FACULTY POSITION IN EUKARYOTIC GENETICS. The Zoology Department will fill a tenure-track position in eukaryotic genetics in our research program, with an investigator working on molecular aspects of genetics in a model eukaryote such as Drosophila or C. elegans. Full professors. Duties include teaching an undergraduate genetics course, supervising graduate students, and participating in a Molecular and Cellular Biology Program. Liberal start-up support is provided. Salary commensurate with qualifications and experience. Send curriculum vitae and names of three references by 1 December 1988 to: J. G. Kunkel, Genetics Search Committee, Zoology Department, University of Massachusetts, Amherst, MA 01003. Affective Action/Equal Opportunity Employer.

FACULTY POSITION IN PHARMACOLOGY UNIVERSITY OF CALIFORNIA IRVINE Applications are invited for a tenured or tenure-track faculty position in pharmacology. We are especially interested in candidates with an active research program in molecular pharmacology and expertise in neuropharmacology, but qualified candidates in other areas will be considered. A Ph.D. in pharmacology or related area, or an M.D. is required. Level of appointment and salary will be commensurate with experience and the candidate's research curriculum vitae, references, and a summary of research interests. The closing date is 1 December 1988 to: Dean Stein, Chairman Department of Pharmacology College of Medicine University of California Irvine The University of California is an Affirmative Action Employer.

FACULTY POSITION—MEDICINAL CHEMISTRY. The Division of Medicinal and Natural Products Chemistry of the College of Pharmacy at the University of Texas at Austin invites applications for a tenured-track position at the assistant professor level, to be filled by September 1989. The Division is seeking a candidate with a strong research emphasis in bioorganic and/or natural products chemistry using modern spectroscopic techniques. The selected candidate will be expected to show potential for developing a rigorous research program. Participation in undergraduate medicinal chemistry courses and development of graduate courses in the area(s) of research expertise is expected. A Ph.D. with postdoctoral experience, and a background in pharmacology is desirable. Send resume, summary of research plans, and the names of three references by 15 November 1988 to: Professor Patrick J. Davis, Head, Division of Medicinal and Natural Products Chemistry, College of Pharmacy, The University of Texas at Austin, Austin, TX 78712–1074. The University of Texas is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS NORTHWESTERN UNIVERSITY As part of the continuing development and expansion of the life sciences at Northwestern University, the Department of Biochemistry, Molecular Biology and Cell Biology is seeking candidates for two assistant or associate professor positions. Individuals with strong research interests in areas of cell biology, including intracellular transport of proteins and RNA, regulation of cell growth, receptors and dynamics of cell structure are urged to apply. Qualifications including experience in other areas will also be considered, as the abilities of the applicants are more important than the particular area of research. Responsibilities in the department include developmental biology, immunology, genetics, virology, and structural biology. Candidates should submit curriculum vitae, a list of publications, copies of recent preprints, a statement of future research objectives and letters of reference from three persons knowledgeable of the candidate's research and teaching abilities to: Dr. Susan Pierce, Chairman, Faculty Search Committee; Department of Biochemistry, Molecular Biology and Cell Biology; Northwestern University, Press Hall, 1530 Lake Shore Drive, Chicago, IL 60614. Northwestern University is an Equal Opportunity/Affirmative Action Employer.

POSITIONS OPEN

FACULTY POSITION IN MICROBIAL MOLECULAR BIOLOGY. The Department of Biological Science, California State University, Long Beach, is seeking applications for a tenure-track appointment in microbial molecular biology, with experience in gene manipulation, to begin in 1989. Applicants must have a Ph.D. or associate professor level. Qualifications include a Ph.D. and appropriate research experience. The successful candidate will be expected to have a strong commitment to undergraduate and graduate teaching at the master's degree level and to establish an active research program. Primary teaching responsibilities will be in molecular biology and one or more of the areas of genetics/molecular biology. Applicants should submit: curriculum vitae; brief statements of teaching and research interests and plans; and copies of recent publications. Additionally, the applicant should arrange to have three letters of recommendation forwarded separately to: Microbial Molecular Biology Search Committee, Department of Biological Science, California State University, Fullerton, CA 92634. Deadline for receipt of applications is 20 January 1989, or until a satisfactory candidate is found. The University is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minority candidates.

FACULTY POSITIONS IN MOLECULAR BIOLOGY AND MOLECULAR PHARMACOLOGY. The Department of Pharmacology and Molecular Biology at the Chicago Medical School is soliciting applications for several tenure-track positions at any level. Although preference will be given to applicants with research interests in eukaryotic gene regulation; molecular mechanism of action of hormones, opiates, related agents and growth factors; molecular aspects of development and cancer, outstanding candidates in other areas of molecular biology/pharmacology will be considered. The Department is located in a new building adjacent to the very pleasant North Shore community of Lake Bluff, 38 miles downtown Chicago and yet easily accessible to the downtown freeways and public transit facilities. Send curriculum vitae, research plans, and three names of references to: Dr. Samson T. Jacob, Department of Pharmacology, and Cell and Molecular Biology Center, The Medical College of Medicine, P.O. Box 850, Hershey, PA 17033 by 9 December 1988. Chicago Medical School is an Equal Opportunity/Affirmative Action Employer.

FACULTY POSITIONS in molecular genetics and population biology. Two tenure-track positions at the associate/assistant levels.

MOLECULAR GENETICIST—to develop courses in molecular genetics and participate in a newly formed biotechnology program.

POPULATION BIOLOGIST—to develop courses in population biology and teach courses in biostatistics and computer applications.

Applicants must have a commitment to teaching at the undergraduate and M.S. levels and a demonstrated ability to develop a vigorous research program. Postdoctoral experience is preferred. Applicants must provide curriculum vitae, a statement of research and teaching interests, transcripts, and three letters of recommendation. Send to: Department of Biology, California State University, Long Beach, CA 90840–3702. These positions will be filled as they are authorized. Applications are considered until January 1, 1989. An Equal Opportunity/Affirmative Action Employer.

FISH BIOLOGIST. The South Carolina Wildlife and Marine Resources Department (SCWMD) has developed an environmental monitoring project for state marine fisheries. Requirements include: M.S. degree; demonstrated writing ability; background in ichthyology, biology, and marine science. Applicants must have a Ph.D. with experience in marine fisheries. Send curriculum vitae, summary of research to: Dr. William F. Reifschneider, Shrimp Monitoring Coordinator, Department of Natural Resources, Room 360, 2230 Morris Street, Charleston, SC 29412. Applications should be received by 1 January 1989.

FISHERIES ECOLOGIST MICHIGAN STATE UNIVERSITY The Department of Fisheries and Wildlife invites applications for a faculty position at the assistant professor level beginning 1 July 1989 specializing in fisheries ecology and management with an emphasis in fish habitat analysis and management. This position is a 12-month, tenure-track appointment involving a commitment to teaching, research, and extension. Major responsibilities include teaching ichthyology, an introductory course on fish and wildlife of North America, and a graduate level course in fish habitat analysis and fisheries management. We desire a faculty member who actively conducts research in the area of the influence of habitat and other environmental factors on fish populations, their productivity and management. In addition we expect this individual to participate in faculty committees, public service programs and advising of undergraduate and graduate students. Qualifications include a Ph.D. with a specialization in fisheries science and an example in fish habitat analysis and fisheries management. Evidence of ability to interact with state, federal, and private organizations and the research community and publish findings is desirable. Salary is competitive, commensurate with training, experience and demonstrated ability. Interested persons should submit a letter of application stating professional goals and objectives, a resume with supporting materials including transcripts, a list of publications and up to three letters of recommendation to: Dr. William W. Taylor, Search Committee Chairperson, Department of Fisheries and Wildlife, Michigan State University, East Lansing, MI 48824–1222. Telephone: 517–353–4477. Michigan State University is an Equal Opportunity/Affirmative Action Employer. Minority and female candidates are encouraged to apply for this position.

GENETICIST. The Biology Department at Albion College announces a tenure-track position as assistant professor to begin in August 1989. A Ph.D. is required, and teaching experience is necessary. A successful candidate will be expected to teach upper level, undergraduate courses in general genetics with lab, including some human genetics, and introductory techniques in recombinant DNA technology. The candidate will also share responsibilities in introductory biology courses. Modern facilities include TEM, SEM, an incubator, a fluorescent microscope, a spectrophotometer, a DNA sequencer and a 30-acre nature center. A research program incorporating undergraduate students is expected. Albion College encourages applications from women and minority candidates. Send letter of application, current curriculum vitae, transcripts, and three letters of reference to: Dr. Jeffrey C. Carrier, Chair, Department of Biological Sciences, Albion College, Albion, MI 49224. Deadline for applications is 1 December 1988. Albion College is an Equal Opportunity Employer.
FULL TIME FACULTY POSITIONS
HARVARD MEDICAL SCHOOL-BETH ISRAEL HOSPITAL

Positions available for faculty members at various levels to join the new Molecular Medicine Unit at the Beth Israel Hospital and Harvard Medical School.

Applications are invited from scientists having a M.D. and/or Ph.D. degree and postdoctoral experience in molecular biology. New faculty members will be expected to develop independent basic science research programs, particularly in the areas of cell growth and differentiation, ion pumps and channels, or cell receptors. The selected candidates will have the opportunity to work in new laboratories with state of the art equipment designed for molecular and cellular biological research. Start up funds and extensive long term support is available for salaries, technical help, and supplies. The faculty members selected will be expected to spend approximately 90% of their time pursuing research activities. Clinical and/or teaching commitments are not required but can be arranged. Applicants should have sufficient recognition in their field in the form of publications to merit joint faculty appointments at Harvard Medical School. Please send curriculum vitae, a brief statement of research interests, reprints of significant recent work, and the names of three references to:

Dr. Joan Sax
Molecular Medicine Unit
Beth Israel Hospital
330 Brookline Avenue, Boston, MA 02215.

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Sigma Chemical Company employs hundreds of staff personnel at our St. Louis laboratory and manufacturing headquarters. Our biochemicals and organic compounds are distributed to a quality conscious international market that relies on our integrity and professionalism. Openings are available in several production, analytical and technical service areas.

PRODUCTION/ANALYTICAL

Fermentation Microbiologist, Molecular Biologist: Requirements include BS, MS in microbiology or biochemistry. 1-3 years experience in large scale microbial and fungal fermentations helpful. Good mechanical aptitude necessary.

Molecular Biology: Requirements include a BS degree in biology or biochemistry with 2-3 years experience in molecular biology or an advanced degree. Duties include the production and analysis of restriction endonucleases, nucleic acid modifying enzymes and nucleic acids.

Enzyme/Protein Analysis: Requirements include a degree in chemistry or biochemistry. 2-3 years experience with traditional wet method chemistry or advanced degree in Biochemistry with emphasis in enzymology including: protein determination, enzyme kinetics preferred.

TECHNICAL SERVICE

These positions offer the opportunity to utilize technical and problem solving skills to provide product information to customers worldwide.

Tissue Culture: Requirements include a degree in biology or biochemistry and 3-5 years general tissue culture lab experience. Scientific writing experience, knowledge of GMP and sterility and validation testing helpful.

Immunochemicals: Requirements include a BS degree in biology or biochemistry along with laboratory experience in one or more of the following areas: Immunohistochemistry, monoclonal antibody development, production and characterization, radioligand assay, or tissue culture.

All candidates must possess strong written and verbal communication skills and be able to work independently. Selected applicants will be provided with compensation commensurate with experience and education, plus full company-paid benefits package. Send your confidential resume to: SIGMA CHEMICAL COMPANY, P.O. Box 14308, St. Louis, MO 63178.
INVERTEBRATE NEUROBIOLOGIST—Tenure-track position open in fall 1989, for assistant or associate professor in neurobiology. Research abilities (as demonstrated by publications) in invertebrate neurobiology working at the multicellular or molecular level are required. The successful candidate will have research interests in sensory processing, motor control, and/or nervous system development. Postdoctoral experience is desirable. Candidates should include references in their application. Send curriculum vitae, four letters of recommendation, representative reprints, and description of research interests by 15 January 1989 to: Dr. James N. Miller, Department of Zoology, University of Oklahoma, Norman, OK 73019. An Equal Opportunity/Affirmative Action Employer.

MICROBIOLOGIST. The New York Hall of Science, an interactive science-technology museum, invites applications for a 3-year, NSF-funded position to assist developing a “hands-on” exhibition on microbiology. Responsibilities include cultivating protozoa and bacteria, mitochondria, research writing, exhibition writing, microscopy, photomicrography, and supervising biology lab. Knowledge of clinical microbiology and SEM experience desirable. A Ph.D. in microbiology or protozoology is preferred, or an M.A. with at least 5 years of laboratory experience. Competitive salary and benefits. Send curriculum vitae and names and addresses of three references to: The New York Hall of Science, 1100 New York Hall of Science, Flushing Meadow Park, New York, NY 11368.

MOLECULAR BIOLOGY—RNA PROCESSING. A RESEARCH ASSOCIATE position will be available in the laboratory of Thuro Pederson in January 1989, to join projects addressing alternative mRNA processing, spliceosome composition, assembly and structure of small nuclear ribonucleoproteins, and the transcription and maturation of U1 and U2 snRNAs. The position can be filled at a senior research associate level for an individual with substantial relevant postdoctoral experience at a salary of $29,000 to $37,500. The successful candidate will work in a centrally funded barley molecular biology laboratory, representing the institute, emphasizing molecular approaches to cell and developmental biology, reproductive biology and neurobiology. The institute is located on a wooded suburban campus 38 miles west of Cambridge. This position carries a competitive fringe benefits package. Send curriculum vitae and names of two references to: Dr. Thuro Pederson, c/o Personnel Office, Worcester Foundation for Experimental Biology, 222 Maple Avenue, Shrewsbury, MA 01545. An Equal Opportunity/Affirmative Action Employer/M/F/H.

MOLECULAR GENETICIST. Fort Lewis College Biology Department invites applications for tenure-track position to begin September 1989. Teaching load will include general biology, composition seminar, cell/molecular biology, and molecular genetics. Candidates must be dedicated to excellence in teaching and research, liberal arts oriented, and have a minimum of 3 years postdoctoral experience. Send curriculum vitae and three letters of recommendation to: Dr. John B. Williams, Fort Lewis College, Durango, CO 81301. Screening will begin on 9 January 1989. Fort Lewis College is an Equal Opportunity/ Affirmative Action Employer. Women and minorities are urged to apply.

PHYSIOLOGIST. Applications are invited for an anticipated tenure-track assistant professor position in the Department of Zoology and Physiology at the University of Michigan. The position is considered a tenure-track position and will begin in September 1989. Applicants will be expected to establish a research program and contribute to graduate and undergraduate teaching, primarily in vertebrate systems physiology. Candidates must have a Ph.D. in physiological sciences or a closely related field. Salary will be competitive and will be based on qualifications and experience. Applicants should send curriculum vitae, a statement of research and teaching interests, and names and addresses of three references to: Dr. David J. Pak, Department of Zoology, 1103 Natural Science Building, 1300 Pauline Boutell Road, Ann Arbor, MI 48109. An Equal Opportunity/Affirmative Action Employer/M/F/H.

ORGANIC ANALYTICAL CHEMIST. Further your skills in the research environment of the Illinois Toxicology Laboratory. We seek an instrumental chemist to direct organic contaminant analyses. Communication and organizational skills and experience in environmental chromatography and instrumentation are all desired. Submit curriculum vitae with salary history by 15 December 1988 to: Dr. Mark J. Womack, Hazardous Waste Research and Information Center, 1808 Woodfield Drive, Savoy, IL 61874. Equal Opportunity/Affirmative Action Employer.

PHYSICAL OCEANOGRAPHER. The Department of the Interior Minerals Management Service is recruiting a Hydrographer/Geophysicist to collect large-scale geographic phenomena and the processes affecting the movement of spilled oil, other pollutants, and sediments. Experience in oceanographic modeling and an advanced degree in physical oceanography are preferred. This is a permanent career position located in suburban New Orleans area. Salary—$33,218 per annum (GS-12). Send resume to: Personnel Branch, Minerals Management Service, 1201 Elmwood Park Boulevard, New Orleans, LA 70123-2394. Equal Opportunity Employer.
The USAF Summer Faculty Research Program (SFRP) and Graduate Student Research Program sponsored by the Air Force Office of Scientific Research and conducted by Universal Energy Systems, Inc. (UES) provides research opportunities for qualified faculty members and graduate students of U.S. Institutions of higher education. The research will be conducted at one of 23 participative Air Force Laboratory Centers.

- Electrical Engineering
- Mechanical Engineering
- Aeronautical and Astronautical Engineering
- Biomedical Engineering
- Chemical, Industrial and Civil Engineering
- Physics
- Computer Modeling and Computer Science
- Chemistry
- Mathematics
- Behavioral Science
- Operations Research
- Metallurgy
- Meteorology and Geophysics
- Life Sciences, Biology and Biophysics
- Toxicology

To be eligible for participation, individuals must be U.S. citizens currently serving as full-time faculty or graduate students at U.S. Institutions. All qualified applicants will receive consideration without regard to age, color, race, religion, sex, or national origin.

Interested individuals are requested to contact:
SFRP Administrator
Universal Energy Systems, Inc.
4401 Dayton-Xenia Road
Dayton, Ohio 45432
Phone (800) 533-7532
Or (513) 426-9876

UES
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The USAF Laboratory Graduate Fellowship Program sponsored by the Air Force Office of Scientific Research and conducted by Universal Energy Systems, Inc. (UES) provides 3 year fellowships for qualified graduate students of U.S. Institutions of higher education.

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- Aeronautical and Astronautical Engineering
- Biomedical Engineering
- Chemical, Industrial and Civil Engineering
- Physics
- Computer Modeling and Computer Science
- Chemistry
- Mathematics
- Metallurgy, Materials Science and Ceramic Engineering
- Meteorology and Geophysics
- Life Sciences, Biology and Biophysics
- Toxicology
- Environmental Science and Engineering

To be eligible for participation, individuals must be U.S. citizens, and receive their baccalaureate by the Fellowship year. All qualified applicants will receive consideration without regard to age, color, race, religion, sex, or national origin.

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4401 Dayton-Xenia Road
Dayton, Ohio 45432
Phone (800) 533-7532

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University of California, Davis

CELLULAR NEUROBIOLOGY TRAINING PROGRAM

Funding is available to support qualified individuals for cellular neurobiology at both postdoctoral and predotoral levels. Successful applicants will join a young, vigorous neurobiology group that is highly interactive and in which collaborations are common. We particularly encourage participation of trainees in projects involving the expertise of two or more training faculty:

Hillary Anderson, Development of insect nervous systems
Richard Carlsen, Cell biology of axonal and muscle regeneration
Leo Chalupa, Prenatal development of mammalian visual system
Carol Erickson, Morphogenesis and differentiation of neural crest
Mark McMahon, Molecular biology of ACh receptors
Brian Mulloney, Generation and modulation of motor patterns
Pamela Pappone, Biophysics of ion channels
Robert Scobey, Retinal physiology
Barry Wilson, Cholinesterases and neurotoxicology
Martin Wilson, Cell biology of the retina

For more information, contact Dr. Brian Mulloney, Director, Cellular Neurobiology Training Program, Department of Zoology, University of California, Davis, CA 95616, or phone (916) 752-7458.

UCD is an Equal Opportunity/Affirmative Action Institution.

PLANT CELL AND TISSUE CULTURE

ASSISTANT PROFESSOR AND RESEARCH SCIENTIST

THE INSTITUTE OF PAPER CHEMISTRY
APPLETON, WISCONSIN

The Institute of Paper Chemistry (IPC) invites applications for a full-time position, Assistant Professor/Research Scientist, in its multidisciplinary research program on regeneration of commercially important forest tree species via somatic embryogenesis.

The successful candidate must possess a Ph.D. in the plant sciences, with specialization in embryology/histology, four or more years experience in woody plant cell and tissue culture, and a sound record of publication. He or she will be expected to establish graduate courses in cell and tissue culture, microtechniques, and related areas. Experience in advising M.S. and Ph.D. students is desired. Positions provide competitive salaries commensurate with qualifications, and excellent benefit packages. Deadline for applications: 30 days after publications of ad.

IPC is an accredited, independent graduate school and research center in the natural sciences and engineering, supported by the pulp and paper industry for over 55 years. Our programs are conducted in an open, academic-like environment which strongly encourages publication, student participation, and interaction with scientists around the world.

IPC recently announced establishment of an alliance with The Georgia Institute of Technology and other Georgia organizations and institutions of higher education. IPC will retain its independent research and academic programs, and will relocate from Appleton, Wisconsin, to new facilities on the Georgia Tech campus in Atlanta in summer, 1989.

Prospective candidates should send a resume, statement of research interests, and references to:

Associate Director of Personnel
The Institute of Paper Chemistry
P.O. Box 1003
Appleton, WI 54912-1003

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HPLC R&D CHEMIST

Supelco, Inc., a Rohm and Haas company and a leading manufacturer of chromatography products, is looking for an HPLC Chemist to join our busy and talented R&D group. The successful candidate will develop new materials, methods, and applications in the exciting and growing HPLC area. This person will also have the opportunity to represent us at conferences and trade shows.

To qualify, you should have a degree (or equivalent) in Analytical, Pharmaceutical, or Organic Chemistry—plus significant hands-on experience in HPLC applications or methods development. A background in pharmaceutical/pharmacological or chiral separations would be a plus.

We offer an outstanding working and living environment with a rapidly growing company in scenic central Pennsylvania, plus a competitive salary, excellent benefits (including 401K plan and profit sharing), and the opportunity for real professional growth.

For confidential consideration, please send your resume, salary history, and a cover letter to: Personnel Department.

SCIENTIFIC EXCHANGES

NAS Scientific Exchange Program with the U.S.S.R. and Eastern Europe

The National Academy of Sciences (NAS) invites applications from American scientists who wish to make visits to the Soviet Union and Eastern Europe for the period January 1, 1990 through December 31, 1990. Visits are for five months. Applicants must be citizens and have a doctoral degree or its equivalent by June 1, 1989, in physics, chemistry, mathematics, and computer sciences; earth, atmospheric, and oceanographic sciences; agricultural, forestry, and plant sciences; biological sciences; environmental sciences; engineering; archaeology; and anthropology. Also included are science and technology policy and those aspects of the economic and social sciences that involve quantitative analysis as a primary consideration. Other scientific disciplines not explicitly mentioned will be considered on a case-by-case basis. Necessary expenses will be met by the NAS and the foreign academy, including reimbursement for long-term visitors for salary lost up to a predetermined maximum and expenses for accompanying family members for visits exceeding five months.

Requests for applications should reach the NAS by January 2, 1989. Applications must be postmarked by February 28, 1989. Address application requests to:

NAS Scientific Exchange Program
National Academy of Sciences
Office of International Affairs
2101 Constitution Avenue, NW
Washington, D.C. 20418

Bioc hemist/ Molecular Biologist

The AMERICAN HEALTH FOUNDATION has an attractive career development opportunity for an individual interested in applying modern techniques of molecular biology to investigate mechanisms of carcinogenesis by tobacco constituents and related human carcinogens.

We seek a Ph.D. with 0-3 years postdoctoral experience who is strongly motivated to develop an independently funded research program.

The appointment will be made at the associate research scientist (assistant professor) level.

The AMERICAN HEALTH FOUNDATION offers excellent facilities and a unique environment for research on mechanisms of tobacco carcinogenesis. Please submit resume to:

Dietrich Hoffmann, Ph.D.
Stephen S. Hecht, Ph.D.
AMERICAN HEALTH FOUNDATION
1 Dana Road
Valhalla, NY 10595

Equal Opportunity Employer M/F/H/V

Research Technician

Research Technician wanted to join immunology group to work with Molecular Biologist on genetic studies of human autoimmune diseases.

Please submit resume and cover letter to:

Vincent Agnello, M.D.
Department of Laboratory Medicine
Lahey Clinic
Medical Center
41 Mall Road
Burlington, MA 01805

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has two immediate entry-level openings in Cincinnati, Ohio for scientists with Ph.D. or postdoctoral training. These openings are in the Human Safety Division at the Miami Valley Laboratories.

Cell Biologist

Experience in measuring cell proliferation/differentiation or other cellular responses to environmental influences, and experience in cell culture is required. In addition, experience in the use of immunochemical, histochemical and in situ hybridization techniques is desirable.

Molecular Biologist

Research experience in molecular biology required to establish a research program in the area of oncogene activation and gene suppression as it relates to neoplastic transformation induced by chemicals. Experience in the areas of gene transfection, DNA sequencing, nucleic acid hybridization, and cell culture techniques is desirable. The successful candidate will join an investigative team currently studying specific aspects of cell transformation, tumor promotion, chemical mutagenesis, and DNA damage/repair.

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Ph.D. Recruiting, Dept. HSD
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Cincinnati, Ohio 45239-8707

Closing date: December 30, 1988

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NEUROBIOLOGIST—Assistant Professor—Tenure-Track—The candidate must have expertise in neurophysiology, neuroanatomy, and cell biology. The candidate will also be expected to develop a research program that involves undergraduates. Interest in participating in the University's predoctoral program in the Neurosciences is required. Applicants should be committed to providing a high quality research-based curriculum for our students. Additional information concerning this position may be obtained from: Dr. John J. Bruck- man, Department of Neurophysiology, 273 Medical Sciences Building, Madison, WI 53706. The University of Wisconsin–Madison is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

NEUROSCIENCE FACULTY POSITIONS—University of Wisconsin—Madison. The Department of Neurophysiology invites applications for two tenure-track positions at the assistant or associate professorship level. We seek to hire from researchers whose demonstrated research emphasizes molecular, cellular, integrative, or developmental neuroscience. The successful candidate will be expected to develop an independent research program and participate in the medical and graduate student teaching programs of the department. Applications should include curriculum vitae, list of publications, summary of past work and accomplishments, a statement of future research plans, and the names and addresses of three references. We are committed to increasing the diversity of our faculty. John F. Bruckman, Chair, Department of Neurophysiology, 273 Medical Sciences Building, Madison, WI 53706. The University of Wisconsin–Madison is an Affirmative Action/Equal Opportunity Employer and encourages applications from women and minorities.

PLANT BIOLOGIST—The Department of Biological Sciences at California State University, Chico, invites applications for a tenure-track, assistant professorship beginning with the 1989-1990 academic year. The successful candidate will have a doctoral degree with specialization in plant molecular biology, a broad background in plant science, and a working knowledge of specialized techniques in the field of plant development such as cell culture, protoplast fusion, and recombinant DNA techniques. A strong interest in teaching excellence is essential. Responsibilities will include teaching an upper division cell biology course, upper division/garden course in area of expertise, an introductory molecular biology course for majors, and a lower division general biology course. The establishment of a research program involving undergraduate and graduate students is expected. Applicants should submit a letter of application, curriculum vitae, complete academic transcripts, and three letters of reference to: Dr. William F. Derr, Chair, Department of Biological Sciences, California State University, Chico, CA 95929-0015 by 15 December 1988. Equal Employment Opportunity/Affirmative Action/IRCA Employer.

PHARMACOLOGY FACULTY POSITION—Ohio University seeks to fill a tenure-track pharmacology faculty position at the assistant or associate professor level. A Ph.D. degree in pharmacology and 2 years of postdoctoral research experience is required. The successor will be a joint appointment in the College of Osteopathic Medicine and the Department of Zoological and Biomedical Sciences. Although the position may be open to candidates with training and expertise in neuropharmacology, candidates from other specialties are strongly encouraged to apply. The successful candidate is expected to apply for and receive funding to develop a strong, independent, and externally funded research program. Collaborative opportunities exist in several areas including: biochemistry pharmacology, particularly signal transduction and second messengers in stimulus response coupling, cardiovascular and autonomic pharmacology, endocrinology, molecular and cellular biology, and muscle physiology and neurobiology. The successful candidate is required to participate in teaching of pharmacology to osteopathic medical students, and to participate in training of graduate (M.S./Ph.D.) students in the Program in Pharmacology and Psychopharmacology within the Department of Zoological and Biomedical Sciences. The letter of application, curriculum vitae, description of current and future research plans, copies of most significant publications, and three letters of recommendation were to be received by 15 December 1988. Address applications to: The Chairperson, Pharmacology Search Committee, Program in Pharmacology and Psychopharmacology, Room 238, Irvine Hall, Ohio University, Athens, OH 45701.

Ohio University is an Affirmative Action/Equal Opportunity Employer.

PHARMACOLOGY—The Department of Pharmacology and Toxicology at the University of Arkansas is seeking applications at the assistant or associate professor level. Candidates with a strong record of research productivity and significant experience in the field of pharmacology are encouraged to apply. Salaries are commensurate with experience. Applications from those with experience in identifying, characterizing, and evaluating the effects of chemicals on living systems are also encouraged. The letter of application, curriculum vitae, description of current and future research plans, copies of most significant publications, and three letters of recommendation were to be received by 15 December 1988. Address applications to: Dr. Donald E. McMillan, Department of Pharmacology and Toxicology, University of Arkansas for Medical Sciences, 4301 West Markham Street, Slot 611, Little Rock, AR 72205. UAMS is an Equal Opportunity Employer.

PLANT CELL BIOLOGIST—The Department of Botany at the University of Wyoming invites applications at the rank of assistant or associate professor in plant cell biology. The position involves teaching at the undergraduate and graduate level, and the development of a vigorous research program. Candidates are sought who use modern approaches and are willing to interact with others on campus. The letter of application, curriculum vitae, and a brief statement of current and future research interests were to be received by 15 December 1988. Address applications to: Dr. Donald J. Fleeger, Department of Botany, Box 3165 University Station, The University of Wyoming, Laramie, WY 82071-3165.

University of Wyoming is an Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE position available for a physiological ecologist to study the effects of pollution and other air pollutants on forest ecosystems especially in areas such as the rhizosphere, stress physiology, or growth and development. Send curriculum vitae and three letters of recommendation by 5 December 1988 to: Dr. Richard Klein, Botany Department, University of Vermont, Burlington, VT 05405. An Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL ASSOCIATE in RESEARCH position immediately available. A recent Ph.D. in molecular biology with experience in cell culture techniques, genomic libraries, cell transfection, and transgenic animal model. Salary available at a level appropriate to experience. Send curriculum vitae and a letter of application, including names, addresses, and telephone numbers of three references to: Dr. Robert B. Berman, Department of Developmental Biology, Genentech Inc., 460 Point San Bruno Boulevard, South San Francisco, CA 94080. We actively support Affirmative Action and Equal Employment Opportunity. Women and minorities are encouraged to apply.

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POSTDOCTORAL FELLOW in ECOLOGY—Applications are solicited for a postdoctoral position beginning August 1989 and extending through June 1991. Applicants must have completed their Ph.D. degree in ecology, and have experience in aquatic systems or larval ecology. The successful applicant will initiate an independent research program, participate in ongoing departmental research projects, and teach one course per academic year. Salary commensurate with qualifications and experience. Closing date is 15 April 1989. Please send a letter describing research interests and three letters of recommendation to: Dr. John Fleeger, Department of Zoology and Physiology, Louisiana State University (LSU), Baton Rouge, LA 70803-1725 (Telephone: 504-388-1738 BITNET: ZOFLEE @ LSU/MVS). LSU is an Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION—The Mayo Clinic Endocrine Research Unit has excellent training opportunities for postdoctoral fellows in the area of diabetes mellitus, metabolism, thyroid disease, and bone and mineral metabolism. The components of the training program include a focused research experience in the laboratories of established investigators, formal didactic course work, seminars and conferences, a distinguished lecture series, and intra- and extramural presentations. Training grant faculty consists of nine NIH-funded staff investigators with adjunct faculty in both the basic science and clinical disciplines.

Candidates must have U.S. citizenship or a Permanent Immigration Visa and should have the equivalent of a M.D. or Ph.D. degree. Candidates who have the equivalent of a M.D or Ph.D. degree. Candidates interested in applying should contact: Mary W. Hammond, M.D., Mayo Clinic, Endocrine Research Unit, 5-164 West Joseph, Rochester, MN 55905. Closing date is 15 April 1989. An Equal Opportunity/Affirmative Action Institution.
EXECUTIVE BRANCH
SCIENCE AND ENGINEERING FELLOWSHIP
Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for a 1-year Executive Branch Science and Engineering Fellowship to begin in early September, 1989. The fellowship program provides an opportunity for an accomplished and societally aware postdoctoral to mid-career scientist to participate in and contribute to the public policymaking processes within one of several agencies in the Executive Branch of the Federal government. Placement will be made at an appropriate Federal agency, based upon the agency’s needs and the interests and expertise of the Fellow. Included in the fellowship program is an intensive science policy orientation and a year-long seminar series dealing with a wide array of science and technology issues.

Prospective Fellows may apply from any physical, biological, or behavioral science or any field of engineering. Qualified applicants must demonstrate exceptional competence in some area of science or engineering, be flexible, and have some experience and/or a strong interest in applying knowledge toward the solution of societal problems.

The 1989–1990 AAAS Executive Branch Science and Engineering Fellow will receive a stipend of $30,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

Applications must be submitted by 15 January 1989, with the award to be announced about 1 May 1989. For detailed program information and specific application requirements, write:

Executive Branch Science and Engineering Fellowship Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600

SCIENCE, ENGINEERING, AND DIPLOMACY FELLOWSHIPS
Applications Invited

The American Association for the Advancement of Science (AAAS), in cooperation with the U.S. Agency for International Development (AID) and the Department of State (STATE) is seeking applicants for approximately 12 Science, Engineering, and Diplomacy Fellowships. Fellows will spend 1 year, beginning 1 September 1989, working either in the Bureau of Oceans and International Environmental and Scientific Affairs of the Department of State or in one of several bureaus and offices of the Agency for International Development. Other assignments may also be possible.

Prospective Fellows must demonstrate exceptional competence in some area of science or engineering, be flexible, have some experience and/or a strong interest in applying knowledge toward the solution of problems in the area of foreign affairs, and have a Ph.D. or equivalent in years of experience. Awardees will work on scientific and technical subjects in international affairs; foreign policy for STATE and International development for AID. In general, individuals are urged to apply from any area of physical, biological, behavioral, and social science and engineering and whose experience and training is applicable to any one of the following areas: food and agriculture; health and population; nuclear nonproliferation; scientific exchange; forestry, natural resources and ecology; oceans and fisheries; communications; national security; and human resources and education, among others.

The Fellows will serve a 1-year appointment at a salary consistent with education level and experience, if possible, but not exceeding the GS-12 level (beginning at about $34,000). A security clearance process will be initiated after selection. The clearance must be obtained before a selectee can begin work in STATE or AID and the fellowship award is contingent upon the selectee obtaining this clearance.

Deadline for receipt of applications is 15 January 1989. For more information and application details write:

Science, Engineering, and Diplomacy Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600

CONGRESSIONAL SCIENCE AND ENGINEERING FELLOWSHIPS
Applications Invited

The American Association for the Advancement of Science (AAAS) invites applications for two 1-year Congressional Science and Engineering Fellowships it will offer for the period beginning 1 September 1989. The fellowship program provides an opportunity for accomplished and societally aware postdoctoral to mid-career scientists and engineers to participate in and contribute to the public policymaking processes within the Congress. Fellows work as special legislative assistants within the congressional staff system.

Persons may apply from any physical, biological or behavioral science or any field of engineering. The term “science” is used broadly to include the system sciences, public health, and other technical professions. In addition to the fellowships awarded by the AAAS, about 15 others are given by other participating professional societies. The AAAS runs a year-long seminar program for both its own Congressional Science and Engineering Fellows and those selected by the participating societies. Addresses of all participating societies are available from the address listed below.

The 1989–1990 AAAS Congressional Science and Engineering Fellows will receive a stipend of $30,000; an additional $2,000 is available for relocation expenses and travel in connection with the program.

The deadline for submission of application materials is 15 January 1989. The award will be announced about 1 May 1989. For detailed information on the program and specific application requirements, write:

Congressional Science and Engineering Fellows Program
American Association for the Advancement of Science
1333 H Street, NW, Washington, DC 20005
Telephone: (202) 326-6600

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1515 BROADWAY
NEW YORK, N.Y. 10036
POSTDOCTORAL FELLOWSHIP available immediately in thrombosis and atherosclerosis research. Background in cardiovascular and metabolic physiology, inclu- din biochemistry, omega-3 fatty acid metabolism, or GC/ MS analysis desirable, but not essential. Studies will include measurements of fatty acids and omega-3 fatty acid metabo- lism in platelets, vascular tissue and monocytes, and their relationship to thrombosis and atherosclerosis. Send curriculum vitae and three references to: Victor A. Skrinska, Ph.D., Cleveland Research Institute, 2351 East 22nd Street, Cleveland, OH 44115.

POSTDOCTORAL FELLOWSHIP POSITION available immediately for Ph.D. with the degree in biochemical or biological sciences to work in the field of cancer chemotherapy. Research will involve elucidation of the mechanisms of induction of cell death by new anticancer agents that will require biochemical and molecular cloning techniques to define drug targets. Salary: $22,000. Send curriculum vitae and three references to: R. J. Houghton, Laboratories for Developmental Therapeutics, Department of Pharmacology, St. Jude Chil- dren's Research Hospital, 332 North Lauderdale, Memphis, TN 38101. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available in the field of bone marrow stem cell research and bone marrow transplantation. Current projects include the investigation of the growth and function of the marrow by means of techniques that will require biochemical and molecular cloning techniques to define drug targets. Salary: $22,000. Send curriculum vitae, statement of research interests, and names of three references to: Dr. George Rose Department of Biological Chemistry The Milton S. Hershey Medical Center The Pennsylvania State University P.O. Box 850P Hershey, PA 17033 An Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for Ph.D. with strong background in biological chemistry. Applicants should have an interest in new methods of biochemical analysis. Starting salary $20,000. Send curriculum vitae, statement of research interests, and names of three references to: R. J. Parry, Department of Chemistry, Rice University, P.O. Box 1892, Hous- ton, TX 77251. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for computer studies of protein structure and folding. Applicant should have strong background in computer programming. Salary: $22,000. Send curriculum vitae, statement of research interests, and names of three references to: Dr. J. A. Cowan, Department of Chem- istry, Ohio State University, 120 West 18th Avenue, Columbus, OH 43210.

POSTDOCTORAL POSITIONS available immediately for work on multienzyme reactions or DNA/DNA chemistry. Applied background in molecular biology and enzyme purification techniques are essential. The research will involve techniques used to characterize DNA/RNA hybridization. Submit the following two letters: A. C. Mauch, Department of Physical Chemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION available immediately for work on multienzyme reactions or DNA/RNA chemistry. Applicant should have strong background in molecular biology and enzyme purification techniques. Submit the following two letters: A. C. Mauch, Department of Physical Chemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. A postdoctoral position is available to investigate the enzymology of secondary metabolism. Experience in enzyme purification, biochemistry, and chemical techniques required. Send curriculum vitae, statement of research interests, and names of three references to: R. J. Parry, Department of Chemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Equal Opportunity/Affirmative Action Employer.

POSTDOCTORAL POSITION. A postdoctoral position is available for work on the purification and analysis of dystrophin. Experience in mammalian cell culture and protein analysis are essential. Send curriculum vitae and three letters of recommendation to: Dr. J. A. Cowan, Department of Chemistry, University of California, Los Angeles, CA 90024-0371. Send resume and three letters of recommendation to: R. J. Parry, Department of Chemistry, Rice University, P.O. Box 1892, Houston, TX 77251. Equal Opportunity/Affirmative Action Employer.

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Pharmaceutical Research Division / Warner-Lambert Company
POSTDOCTORAL RESEARCH ASSOCIATE

Ph.D. in biochemistry or neurochemistry with 0 to 3 years of experience. Research will focus on regulation of lipid membrane asymmetry in the presence of ethanol and other drugs. Emphasis will be on the functional consequences of changes in asymmetry, the role of anti-phospholipid antibodies and the mechanisms that may maintain lipid asymmetry of the membrane. These studies will utilize biophysical, biochemical, and cell culture techniques. Salary negotiable. Send curriculum vitae, along with names of three references to: Eugene Lance, M.D., Ph.D., Shriners Hospitals for Crippled Children, 1310 Punahou Street, Honolulu, HI 96826. An Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Dr. Nahum J. Duker, Department of Pathology, Temple University Medical School, 3400 North Broad Street, Philadelphia, PA 19140. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE

Immediate opening for postdoctoral research associate to work on DNA damage and DNA repair. Background in biochemistry or molecular biology. Send curriculum vitae to: Dr. Nahum J. Duker, Department of Pathology, Temple University Medical School, 3400 North Broad Street, Philadelphia, PA 19140. Affirmative Action/Equal Opportunity Employer.

POSTDOCTORAL RESEARCH ASSOCIATE POSITIONS

Department of Neurology/Neurosurgery

The Department of Chemistry, Indiana University, invites applications for a tenured position in organic chemistry at the level of Professor. An outstanding, established teacher-scholar is sought whose research interests will complement those of the current staff. The position is to be occupied in the academic year 1989/1990. Applicants should submit curriculum vitae and a list of publications to: Professor Paul A. Grieco, Department of Chemistry, Indiana University, Bloomington, IN 47405 before 1 December 1988. Indiana University is an Equal Opportunity/Affirmative Action Employer.

University of California, San Francisco (UCSF) Radiation Oncology Graduate and Postdoctoral Research Training Positions

Available: Areas of research involve basic and applied studies utilizing molecular and cellular approaches, small and large animals, and clinical trials. Effects of UV, ionizing radiation, chemicals, drugs, and hyperthermia are being studied. Predoctoral students will receive Ph.D. degrees through the UCSF Biophysics Graduate Group. Contact or call: Dr. William C. Dewey, UCSF, RORL, CED-200, Box 0882, San Francisco, CA 94143. Telephone: 415-476-2461. An Equal Opportunity/Affirmative Action Employer.

WOODS HOLE OCEANOGRAPHIC INSTITUTION

POSTDOCTORAL FELLOWSHIPS

Ocean Science and Engineering

Applications are invited from new or recent doctorates in science or engineering with interests in physical oceanography, meteorology, marine chemistry, marine geology and geophysics, biological oceanography, or oceanographic engineering. Recipients of awards are selected on a competitive basis, with primary emphasis placed on research promise.

Marine Policy and Ocean Management

Research fellowships are offered to individuals in the social sciences, law, the humanities, or natural sciences to apply their training to problems or issues that involve the use of the oceans. Presently research follows thematic areas such as Marine Science and Public Policy; Ocean Jurisdictions, Law of the Sea, and International Relations; Development and Management of Ocean Resources; and Area-Wide Planning and Management. Emphasis is placed on the economics of ocean space and on the role of science in governmental and industrial decision making. Topics of special current interest include marine biological diversity, the quality of marine habitats and marine resources, and the impact of climate change. Other research interests are also appropriate.

Fellowships are awarded for one year with a stipend of $28,500 plus group health insurance and a modest research budget. Recipients are encouraged to pursue their own research interests independently or in association with resident staff. Completed applications must be received by January 15, 1989 for 1989-90 awards. Awards will be announced in March. Write for application forms to: Dean of Graduate Studies, P.O. Box 19, Woods Hole Oceanographic Institution, Woods Hole, Massachusetts 02543

Equal Opportunity/Affirmative Action Institution
RESEARCH MANAGER, NEUROPHYSIOLOGY

The Office of Naval Research is seeking a highly qualified individual to plan and manage a contract research program in neurophysiology at the cellular and molecular level. The sponsored research is conducted principally at universities and private laboratories, with research performed by leading scientists in the field. This is a Civil Service position at the GM-13, 14 or 15 level ($39,501-$71,377), depending on qualifications.

The individual selected will establish goals for and conceive, organize and direct research and development programs in new areas of neurophysiology with emphasis on molecular responses to environmental stimuli at the level of the central nervous system and other regulatory systems of the body. The incumbent will identify new research opportunities, communicate ONR interests to the scientific community, evaluate and select research proposals for funding, manage available resources, and represent the program within the Navy and DoD. An important aspect of this position is to conceive, develop and market new research ideas to higher Navy management. This position provides the challenge and opportunity to have a creative and significant impact on the direction and quality of research conducted at the national level. Additionally, the opportunity exists to establish or maintain an individual research program at an academic institution or government laboratory.

Applicants must have either (1) a Ph.D. or equivalent in physiology, neurochemistry, endocrinology, pharmacology, cell biology, molecular biology or a related discipline and at least one year of professional experience or (2) acquired a minimum of three years of progressively responsible professional experience. Demonstrated research experience is preferred.

Interested persons should send a resume, list of publications and a Standard Form 171, Application for Federal Employment (available at Federal Job Information Centers or from the address below), to:

OFFICE OF THE CHIEF OF NAVAL RESEARCH
Civilian Personnel Division, O CNR Code 01242P
Attn: Announcement #88-72 (S)
800 North Quincy Street
Arlington, VA 22217-5000

Applications will be accepted through 30 December 1988 and must be received by that date. Applicants are requested to complete the appropriate supplemental forms. For further information and supplemental forms, please call (202) 686-4705.

U.S. CITIZENSHIP REQUIRED • AN EQUAL OPPORTUNITY EMPLOYER

WYETH-AYERST LABORATORIES
Continued commitment to future growth and excellence in the pharmaceutical industry.

Wyeth-Ayerst Laboratories is one of the most well-recognized pharmaceutical research companies in the country. We were founded over 125 years ago in Philadelphia. Today with over 6,000 employees, Wyeth-Ayerst maintains several facilities in the greater Philadelphia area including our Clinical Research and Development headquarters in Radnor, PA.

We are currently experiencing a period of unprecedented growth within our CR&D function. American Home Products, the parent corporation of Wyeth-Ayerst, has made a major corporate commitment to this expansion. This has resulted in the creation of a number of medical research related positions at all levels.

ASSISTANT DIRECTOR/CLINICAL SCIENCE

Ideal candidate will have a PhD in clinical science or a PharmD degree with 3-5 years relevant experience, highly specialized knowledge of clinical/preclinical science, the ability to solve highly technical problems and excellent communication skills. Major responsibility will be to assist the Medical Monitor in administrative and technical planning according to the clinical development objectives.

SENIOR CLINICAL SCIENTIST

Ideal candidate will have PhD in clinical science or a PharmD degree with 2-3 years relevant experience in several therapeutic areas, e.g., reproductive, endocrinology, cardiovascular electrophysiology, laboratory and/or invasive drug trials, problem solving and communication skills. Major responsibility will be to coordinate and organize clinical monitoring activities at Radnor in conjunction with the Regional Clinical Associates and Clinical Research Officers worldwide.

CLINICAL SCIENTIST II

Ideal candidate will have a Bachelor's degree with 4-5 years clinical research experience, or Master's degree with 1-2 years relevant experience, ability to solve complex problems and excellent communication skills. Major responsibility will be to conduct clinical investigational trials including reviewing preclinical/clinical data, maintaining documentation and evaluating results.

If your goals match our commitment to expansion, we want to talk with you about advancing tomorrow's state-of-the-art as part of our professional team. Forward your CV/resume in confidence to: CR&D Personnel, Wyeth-Ayerst Laboratories, P.O. Box 8299, Philadelphia, PA 19101. Equal Opportunity Employer, M/F/H/V responses encouraged.
POSTDOCTORAL RESEARCH POSITION

**MECHANICAL PROPERTIES OF HUMAN BONE**

**MAYO CLINIC/MAYO FOUNDATION**

Postdoctoral position available 1 January 1989 to study the molecular and cellular biology of bone growth factors. Specific areas of research include the identification, purification, and characterization of growth factor/receptor genes and the delineation of specific protein-DNA interactions involved in transcriptional control. Applicants should possess a strong background in one or more of the following areas: recombinant DNA methodology; protein biochemistry; mammalian cell culture techniques. Send curriculum vitae and three references to: Dr. Michael J. Getz, Department of Biochemistry and Molecular Biology, Mayo Clinic/Mayo Foundation, Rochester, MN 55905. An Equal Opportunity/Affirmative Action Institution.

RECEPTOR BIOLOGIST/BIOCHEMIST

Cephalon, Inc., a neuroscience-biotechnology company, is seeking an individual with 1-3 years experience in receptor pharmacology and drug discovery. A PhD in pharmacology, biochemistry, or related field is required. Responsibilities include: designing and performing experiments to elucidate the molecular mechanisms of neurochemical signaling; understanding drugs and targets by mapping the signal transduction pathways; assisting in the design of new drugs to block or enhance signal transduction; and participating in the development of a program in cellular radiobiology and cytology. A primary project will involve in vitro/in vivo studies on biological effects of various forms of ionizing radiation delivered at low doses to normal tissues. This position will be filled at the junior staff or research associate level depending upon the qualifications and experience of the successful candidate.

Candidates should submit curriculum vitae and names of three references to: Dr. W. L. Bond, Department of Anesthesiology, Brookhaven National Laboratory, Upton, Long Island, NY 11793. Equal Opportunity Employer.

Stanford University seeks a distinguished SENIOR PALEOANTHROPOLOGIST with expertise in the last 300,000 years of human evolution to provide leadership for a new Program in Human Biocultural Evolution within the Anthropology Department and in the Human Biology Program. For more information, contact: Dr. William Durham, Department of Anthropology, Stanford University, CA 94305-2148. Application deadline is 1 December 1988. Stanford is an Affirmative Action/Equal Opportunity Employer.

SENIOR STAFF INVESTIGATOR

Applications are invited for a full-time research position in the Renal Research Program, Department of Medicine. The position involves research in the broad areas of cell biology and cell physiology. The successful candidate should also be capable of directing and supervising junior members of the research team in independent work. Responsibilities include the development and application of cell culture systems, the preparation of manuscripts for publication, and the reporting of results to the scientific community.

Previous experience in cell culture, experience with mammalian cell lines, and a strong background in molecular biology and cell physiology are essential. A PhD or equivalent professional training is required. A demonstrable record of research productivity and publications is necessary. Salary is negotiable. Please submit curriculum vitae and names of three references to: Dr. J. J. O. Stolk, Department of Medicine, Stanford University School of Medicine, 1220 Welch Road, Stanford, CA 94305. Stanford University is an Equal Employment Opportunity Institution.

MAYO CLINIC/DEPARTMENT OF HEMATOLOGY

Oncology, Department of Pediatrics, University of California, San Francisco, is recruiting a research associate to join an active program investigating the molecular biology and expression of human deoxyribonucleic acid kinase in relation to drug resistance. The candidate must have knowledge of both animal or molecular biology and 2 years of postdoctoral research experience on enzyme purification and gene cloning and expression. Primary laboratory facilities are available. Send curriculum vitae, a statement summarizing your research experience, and the names of three references to: Dr. John Holohan, Division of Hematology-Oncology, Children's Hospital of Los Angeles, P.O. Box 54700, Los Angeles, CA 90054-0700. An Equal Opportunity Employer.

RESEARCH ASSOCIATE position is available in the Department of Chemistry for a Ph.D. in biochemistry or biophysics with previous research experience in the use/development of antibodies, human cell culture, and fluorescence techniques (fluorescence photobleaching, microscopy). The successful candidate will conduct independent research related to characterization of differentiation-dependent cell surface receptors in human promyelocytic leukemia. Salary: $20,000 plus benefits. Send curriculum vitae, list of publications, and names of three referees to: Martha Harper, Employee Relations Office, University of Western Ontario, Stevenson Lawson Building, Room 262, London, Ontario N6A 5B7.

In accordance with Canadian Immigration requirements this advertisement is directed to Canadian citizens and permanent residents of Canada. An Equal Opportunity Employer.

RESEARCH ASSOCIATE/ASSISTANT

Small lab, top science, Salt Lake City, needs diligent, resourceful, independent person for maintenance, stock keeping, assays, bookkeeping, record keeping, communication in science; all or part. Basic science is on regulation of transcription in prokaryotic cells. Education in biochemistry and genetics essential. Hours and pay adjustable. Telephone: 801-581-8347.

RESEARCH ASSOCIATE/BIOCHEMIST OR CELL PHYSIOLOGIST—The University of Pennsylvania, School of Medicine. Unique opportunity to interuce research effort in the study of light-induced phosphorylation in a model of ischemia-reperfusion injury. The position requires a flexible individual who can work independently, but interacts well with others. Experience with lipid analysis, cell isolation, and organ perfusion would be helpful, but not essential. The position offers a competitive salary and fringe benefits with ample research funds. Salary and fringe benefits should be comparable. Send curriculum vitae and names of three references to: Dr. Aron B. Fisher, Director, Institute for Environmental Medicine, University of Pennsylvania, 11 John Morgan Building, 36th and Hamilton Walk, Philadelphia, PA 19104-6068. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

To be responsible for the maintenance of over 200 human cell lines; use the skilled sterile techniques that require familiarity with molecular and cellular techniques; have liaison with senior research personnel and other medical researchers both within the United States and abroad; work on projects with approved human subjects experience. M.S. in nutrition and food science required. Send resume to: Dr. Robert Proctor, Department of Biochemistry and Biophysics, Emory University School of Medicine, Atlanta, GA 30322. Equal Opportunity Employer.

RESEARCH TECHNOLOGIST

Applications are invited for a full-time research position in the Renal Research Program, Department of Medicine. The position involves research in the broad areas of cell biology and cell physiology. The successful candidate should also be capable of directing and supervising junior members of the research team in independent work. Responsibilities include the development and application of cell culture systems, the preparation of manuscripts for publication, and the reporting of results to the scientific community.

Previous experience in cell culture, experience with mammalian cell lines, and a strong background in molecular biology and cell physiology are essential. A PhD or equivalent professional training is required. A demonstrable record of research productivity and publications is necessary. Salary is negotiable. Please submit curriculum vitae and names of three references to: Dr. J. J. O. Stolk, Department of Medicine, Stanford University School of Medicine, 1220 Welch Road, Stanford, CA 94305. Stanford University is an Equal Employment Opportunity Institution.

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RESEARCH ASSOCIATE/ASSISTANT

Small lab, top science, Salt Lake City, needs diligent, resourceful, independent person for maintenance, stock keeping, assays, bookkeeping, record keeping, communication in science; all or part. Basic science is on regulation of transcription in prokaryotic cells. Education in biochemistry and genetics essential. Hours and pay adjustable. Telephone: 801-581-8347.

RESEARCH ASSOCIATE/BIOCHEMIST OR CELL PHYSIOLOGIST—The University of Pennsylvania, School of Medicine. Unique opportunity to interuce research effort in the study of light-induced phosphorylation in a model of ischemia-reperfusion injury. The position requires a flexible individual who can work independently, but interacts well with others. Experience with lipid analysis, cell isolation, and organ perfusion would be helpful, but not essential. The position offers a competitive salary and fringe benefits with ample research funds. Salary and fringe benefits should be comparable. Send curriculum vitae and names of three references to: Dr. Aron B. Fisher, Director, Institute for Environmental Medicine, University of Pennsylvania, 11 John Morgan Building, 36th and Hamilton Walk, Philadelphia, PA 19104-6068. The University of Pennsylvania is an Equal Opportunity/Affirmative Action Employer.

RESEARCH ASSOCIATE

To be responsible for the maintenance of over 200 human cell lines; use the skilled sterile techniques that require familiarity with molecular and cellular techniques; have liaison with senior research personnel and other medical researchers both within the United States and abroad; work on projects with approved human subjects experience. M.S. in nutrition and food science required. Send resume to: Dr. Robert Proctor, Department of Biochemistry and Biophysics, Emory University School of Medicine, Atlanta, GA 30322. Equal Opportunity Employer.
**Director**

Statewide Air Pollution Research Center  
University of California, Riverside

The University of California invites nominations and applications for the Director of the Statewide Air Pollution Research Center (SAPRC), a multi-campus research unit located on the Riverside campus. SAPRC, the recent recipient of a substantial endowment, has a staff of 50 scientists, technicians and faculty who teach and conduct basic and applied research in selected areas of air pollution.

The Director reports to the Chancellor of the Riverside campus. An outstanding record in research, administration and public service, and a Ph.D. or equivalent degree in either natural sciences or engineering is required. The candidate should be eligible for appointment at the full professor level with tenure in an appropriate department. The Director is also expected to establish an active program in atmospheric science or air pollution research and to participate in graduate training in his/her home department or in the interdepartmental graduate program in Environmental Toxicology.

Qualified women and minority candidates are particularly encouraged to apply. Salary is commensurate with experience.

Nominations and applications, accompanied by a curriculum vitae, a list of publications, recent reprints, statement of research interests, and names and addresses of four referees, should be sent by January 1, 1989, to:

Professor Roy Fukuto  
Chair of the Search Committee  
Office of the Chancellor  
University of California  
Riverside, CA 92521

An Equal Opportunity, Affirmative Action Employer.

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**Postdoctoral Positions**

The Monsanto Corporate Research Laboratories Biophysical Sciences group has two postdoctoral openings at its Life Sciences Research facility located in suburban St. Louis. Scientists in this group work in the fields of protein characterization and separation, macromolecular crystallography, interactive molecular modeling and molecular spectroscopy. The group is currently working on a number of projects in the areas of health care, animal nutrition and plant science.

**Electrophoresis**

Candidates must have a Ph.D. in biochemistry and proven ability in the area of protein characterization using electrophoresis techniques. Preference will be given to those candidates with experience in other bioanalytical or biophysical techniques. The electrophoresis laboratory is equipped with a state-of-the-art imaging system, and is currently developing novel techniques for the identification, isolation and characterization of proteins.

**Protein Crystallography**

Candidates must have a Ph.D. in a relevant discipline. Preference will be given to those candidates who have a background in protein crystallography and interest in learning genetic engineering techniques. The crystallography and molecular modeling laboratories are equipped with two Rigaku 12 KW rotating anode X-ray generators with one AFC5 single counter diffractometer and a dual chamber area detector system with a dedicated computer. Computing facilities include two VAX 11/780 computers with three Evans & Sutherland PS300 graphics terminals, and an FPS-264 array processor. Further expansion of our facility to include an additional dual chamber area detector system should be completed within one year.

Interested candidates should send their resume and three letters of recommendation to: MONSANTO COMPANY; BB5B-PS; 700 Chesterfield Village Parkway; St. Louis, MO 63196. Equal Opportunity Employer M/F/H/V.
SPEECH-LANGUAGE PATHOLOGIST: A tenure-track position is available 1 July 1988 at the rank of assistant professor. The applicant must hold a Ph.D. degree in speech-language pathology or related discipline and specialise in child language disorders. Specific interest in the language disorders of school-aged children is preferable. Proven research and university teaching ability are required. The current Department of Speech-Language-Language-Hearing Association is desirable. Salary will be commensurate with qualifications (annual minimum of $32,564).

The deadline for receipt of applications is 15 November 1988. The Department of Speech Pathology and Audiology is planning a major expansion in graduate programs, and will have a significant increase in facilities, particularly for teaching and research, upon renovation of recently allocated space. Please apply by sending curriculum vitae, names of three referees and a statement of teaching and research interests to:

Martha Piper, Ph.D.
Dean of Rehabilitation Medicine
516 Court Hall
University of Alberta
Edmonton, Alberta, Canada T6G 2G4

The University of Alberta is committed to the principle of equity in employment.

POSITIONS OPEN

DEPARTMENT OF SPEECH PATHOLOGY AND AUDIOLOGY
THE UNIVERSITY OF ALBERTA

SPEECH-LANGUAGE PATHOLOGIST: A tenure-track position is available 1 July 1988 at the rank of assistant professor. The applicant must hold a Ph.D. degree in speech-language pathology or related discipline and specialise in child language disorders. Specific interest in the language disorders of school-aged children is preferable. Proven research and university teaching ability are required. The American Speech-Language-Language-Hearing Association is desirable. Salary will be commensurate with qualifications (annual minimum of $32,564).

The deadline for receipt of applications is 15 November 1988. The Department of Speech Pathology and Audiology is planning a major expansion in graduate programs, and will have a significant increase in facilities, particularly for teaching and research, upon renovation of recently allocated space. Please apply by sending curriculum vitae, names of referees and a letter of intent to:

Martha Piper, Ph.D.
Dean of Rehabilitation Medicine
516 Court Hall
University of Alberta
Edmonton, Alberta, Canada T6G 2G4

The University of Alberta is committed to the principle of equity in employment.

VETERINARY MICROBIOLOGISTS: The Department of Veterinary Microbiology and Pathology, Washington State University, seeks two veterinary microbiologists for full-time, tenure-track appointments. Both positions require the Ph.D. degree and expertise in infectious disease research, and offer 50% time per year for research. One position (closing date 21 January 1989) carries a 50% time commitment in public health and bacteriology, and the other (closing date 31 March 1989) has 50% diagnostic bacteriology service appointment to the Washington Animal Disease Diagnostic Laboratory, and requires the D.V.M. (or equivalent) degree and ACVM certification. The positions are open to both U.S. and foreign applicants. Salary and benefits are competitive.

The successful candidates will be expected to develop extramurally supported research programs in areas complementary to current departmental programs. Rank and salary will be commensurate with training and experience. Send curriculum vitae, names and addresses of three referees to: Dr. R. Erwin, Department of Veterinary Microbiology and Pathology, Washington State University, Pullman, WA 99164-7040.

WSU is an Equal Opportunity/Affirmative Action Employer and Employer. Protected group members are encouraged to apply.

VICE PRESIDENT OF DEVELOPMENT

Vice President of Development for new company in cardiovascular medicine. Doctoral degree and scientific training in biological or pharmaceutical sciences required. Must be experienced in developing and managing preclinical and clinical programs. Requires hands-on participation in all phases of development process. Excellent equity opportunity for energetic individual to help create a company with significant impact in a rapidly growing area of health care.

Send résumé to: CholesteC Corporation, 1130 Diablo Avenue, Hayward, CA 94545.

CONFERENCES


POSITIONS OPEN

SYSTEMS PROGRAMMER. The Genetics Computer Group (GCG) at the University of Wisconsin, Biotechnology Center, in collaboration with an M.S. in computer science or equivalent and an interest in molecular biology. This individual will build new application programs for the Macintosh II sequence analysis software package in the VAX/VMS environment. Familiarity with published and original algorithms. Coding style and careful system design maintain the integrity of this package which is developed in response to the needs of the international molecular biology community. Initial training period will include technical support to familiarize the new programmer with the GCG software. Send curriculum vitae to: Genetics Computer Group, UW Biotechnology Center, 1710 University Avenue, Madison, WI 53705.

COURSES

MOLECULAR ENDOCRINOLOGY AND TECHNIQUES FOR HORMONE ACTION

20 to 25 February 1989

This course will consist of lectures in methodology with comprehensive syllabus covering receptors, gene transcription, mRNA and protein synthesis, recombinant DNA, protein hormones, and cyclic nucleotides. Co-Directors: M. R. Hughes and B. W. OMalley Fee: $365 (student), $525 (non-students). For further information contact: Bonnie Guthbert Department of Cell Biology Baylor College of Medicine Telephone: 713-799-6200 Deadline: 29 January 1989

FELLOWSHIPS

The California Institute of Technology, Division of Engineering and Applied Science, invites applications for:

THE MYRON A. BANTRELL POSTDOCTORAL FELLOWSHIP FOR SCIENTIFIC AND ENGINEERING RESEARCH

Restricted to U.S. and Israeli citizens.

The fellowships are restricted to United States and Israeli citizens and are intended for those who have just completed their Ph.D. They can be in any field of research pursued within the Division of Engineering and Applied Science. The fellowship has priority. The duration of the fellowships is typically 1 year beginning in the fall or winter of 1989. The fellowships provide a competitive stipend, a $1,000 research grant, and one-way travel expenses to Pasadena. To apply, candidates should submit curriculum vitae, bibliography, copies of selected publications, and a statement describing his or her research interests. Candidates should also arrange to have three letters of recommendations sent directly to:

Paul C. Jennings, Chairman
Division of Engineering and Applied Science California Institute of Technology
Pasadena, CA 91125

The deadline for completed applications is 9 January 1989. The Institute is an Equal Opportunity/Affirmative Action Employer and welcomes applications from women and minorities.

C. H. BEST FOUNDATION POSTDOCTORAL FELLOWSHIPS

In diabetes research, molecular endocrinology, molecular biology, differentiation, reproductive biology, immunology, structure and function of membranes or lipid metabolism. Tenable in the Banting and Best Department of Medical Research for 2 years after 1 July 1989 with a competitive stipend. Available to new Ph.D.s or candidates with less than 2 years of postdoctoral training by 30 June 1989. Send curriculum vitae, transcripts, and three letters of reference to: C. H. Best Foundation, Locked Bag, University of Toronto, Toronto, Canada M5G 1L6.

AWARDS

FIBROMYALGIA RESEARCH AWARDS

The Southern California Chapter of the Arthritis Foundation is instituting research awards of up to $15,000 to support individuals conducting research relevant to fibromyalgia (fibrositis). Areas include epidemiology, exercise physiology, immunology, pain management, patient/public/professional education, pharmacology, nutrition, genetics, sleep mechanisms, virology, and the application of NMR spectroscopy. P.I. must be affiliated with an academic institution, hospital or industry in the chapter area. However, collaborative arrangements are allowed and research may be conducted elsewhere. Deadline is 6 January 1989.

MAYER ARTHRITIS INVESTIGATOR AWARD

The Southern California Chapter of the Arthritis Foundation will offer the George L. N. and Edna Z. Mayer Arthritis Investigator Award to an outstanding young investigator (M.D. and/or Ph.D.) conducting research in the rheumatic diseases. The award provides support during the period between completion of post-doctoral training and establishment as an independent investigator. The award in the amount of $20,000 will be made for 1 year beginning 1 July 1989. Research conducted during the award period must be done in the Southern California chapter area or may be done by a Southern California investigator in another area provided he/she returns to Southern California. Deadline is 14 January 1989.

For applications write: Arthritis Foundation Medical Department 4311 Wilshire Boulevard Los Angeles, CA 90010 Or telephone: 213-938-6111

FELLOWSHIPS

FELLOWSHIPS are available for pre- and postdoctoral study in the PHARMACOLOGY GRADUATE PROGRAM of the Grace Cancer Drug Center, Roswell Park Memorial Institute, a Graduate Division of the State University of New York at Buffalo. Stipends and tuition waivers are available. The program offers diversified training related to the pharmacological, molecular and biochemical basis for drug action. Areas of emphasis include: neuropharmacology; drug metabolism; cardiochemical; cell membrane transport; immunopharmacology; drug-resistant tumor chemotherapy; and drug pharmacology. Specific areas include: cellular differentiation and growth regulation; cellular ultrastructure; oncogenes; drug resistance; immunological pharmacology; inhibition of neurotransmitter synthesis or alteration of nucleic acid; protein and membrane components; pharmacokinetics and drug metabolism; mechanisms of carcinogenesis; genetic factors for drug action; preclinical and clinical pharmacology; medicinal chemistry and toxicology. U.S. citizens and permanent residents may send applications to:

E. Milich, M.D., Chairman Graduate Pharmacology Program Roswell Park Memorial Institute Grace Cancer Drug Center Elm and Carlton Streets Buffalo, NY 14263

Please include curriculum vitae and indicate two references. An Equal Opportunity/Affirmative Action Employer.

PREDOCITORAL FELLOWSHIPS are available for studies leading to the Ph.D. in the Physiology Graduate Program in the Temple University School of Medicine. Stipends and tuition waivers are available for eligible candidates. Specific research areas include: cardiovascular neuroendocrine biology of the brain; myocaridal biology of normal and diseased myocardium, membrane receptors, developmental cardiovascular physiologi- ogy, liquid ventilation in the underwate medicin, mem- brane transport, gastrointestinal function, vascular smooth muscle, chemoreceptor function, and control of microcirculation. Applications may be sent to: Steven R. Houser, Ph.D., Director, Physiology Graduate Pro- gram, Box 100, Temple University School of Medi- cine, 3420 North Broad Street, Philadelphia, PA 19140. An Equal Opportunity/Affirmative Action Employer, M/F.
FELLOWSHIP POSITIONS AVAILABLE

Postdoctoral positions are available in the Laboratory of Biochemical Risk Analysis of the Division of Biometry and Risk Assessment, NIEHS, located in Research Triangle Park, North Carolina. We are recruiting in each of the following areas:

Studies of polymorphisms of cytochrome P-450 and drug metabolism in rodents and humans using recombinant DNA techniques. Studies involve construction and sequencing of cDNA and gene libraries, site specific mutagenesis and transfection experiments.

The use of human lymphocytes as a means of evaluating exposure to chemicals and for identifying individuals at risk. Current studies include methods for quantifying drug-metabolizing enzymes, DNA adducts and gene mutations.

Estrogen-stimulated growth and neoplasia of mammary gland epithelium as part of a program investigating risk factors of human breast cancer. Studies include the role of DNA adducts and gene defects in mammary gland neoplasia.

The initial appointment is for two years with extensions possible for up to 5 years for the talented researcher. Applicants should possess a Ph.D. or equivalent degree in Genetics, Molecular Biology, Biochemistry or closely related field and less than 4 years of postdoctoral experience. Should be a U.S. citizen. Salary range is $20,000 - $38,753 per year.

For additional information, contact Bruce Wiggins or Lisa King at (919) 541-3317. To apply, send Curriculum Vitae and names, addresses and telephone numbers of three references by December 1 to:

Bruce Wiggins (Code HNV-65)
NIEHS Personnel Office
P.O. Box 12233
Research Triangle Park
North Carolina 27709

AN EQUAL OPPORTUNITY EMPLOYER

POSTDOCTORAL FELLOWS DEVELOPMENTAL GENETICS

The Squibb Institute for Medical Research is recognized internationally as a leader in the research and development of novel pharmaceuticals. We have recently established a Molecular Biology Department to study the molecular basis of human cancer. We are offering Postdoctoral Fellowship positions to study developmental genetics.

You will conduct basic research in a laboratory focused on the regulation and expression of oncogenes, growth factor receptors during development of the mouse. This involves expression of these genes in transgenic mice (in the pancreas or in germ cells); as well as mapping the developmental pattern of gene expression in normal and various genetic mouse mutants using in situ hybridization.

Qualified candidates should have experience in molecular biology, however, individuals with experience in mouse genetics and development will be considered.

This position is based in Princeton, New Jersey, a pleasant semi-rural community located mid-way between New York City and Philadelphia. For consideration please submit curriculum vitae to: 

The Squibb Institute for Medical Research, Human Resources Department 25, P.O. Box 4000, Princeton, N.J. 08543-4000. An equal opportunity employer.

POSTDOC OR RESEARCH ASSOCIATE

Monoclonal Antibody Development

Cetus Corporation, a front runner in the field of biotechnology, seeks a highly qualified Postdoc or Research Associate to develop human monoclonal antibodies for research and therapeutic applications.

The successful candidate will join our Department of Immunology and will interact in a stimulating, scientific environment with new, well-equipped laboratories.

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The Neuroscience Research Division, a segment of the Pharmaceutical Products Division, seeks a well-trained scientist to work towards the discovery of novel pharmacological agents for diseases of the nervous system through the study of neuronal mechanisms of regulation. The successful applicant will have a PhD in one of the life sciences and a record of productive postdoctoral research. Experience with neurotransmitter receptors and transduction mechanisms is essential.

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Chairperson
Department of Medicine

The University of Massachusetts Medical Center in Worcester MA is seeking candidates with outstanding accomplishments in medical research and education. The Medical Center, the Commonwealth's only public academic health center, consists of a School of Medicine, graduate schools of Biomedical Sciences and Nursing, and a 365-bed University Hospital. The Department of Medicine of the School of Medicine has 17 divisions with 96 full time faculty positions. Its research activities have grown significantly during the past several years. There is a large clinical case load with major teaching responsibilities for medical students, residents, and fellows. The Medical Center, near the end of its second decade, has committed itself to a series of major advances in its clinical care, teaching, and research programs. Toward these ends, it is firmly committed to the continued growth of the Department of Medicine.

Nominations and applications, including curriculum vitae, should be forwarded to Aaron Lazer, MD, Chairman, Medicine Search Committee, Department of Psychiatry, University of Massachusetts Medical Center, 55 Lake Avenue North, Worcester MA 01655. Women and minorities are encouraged to apply. UMMC is an equal opportunity/affirmative action employer.

UNIVERSITY OF MASSACHUSETTS MEDICAL CENTER
NATIONAL CANCER INSTITUTE
National Institutes of Health, Public Health Service

CANCER PREVENTION FELLOWSHIP PROGRAM (CPFP)

The DIVISION OF CANCER PREVENTION AND CONTROL (DCPC) is accepting applications for the Cancer Prevention Fellowship Program (CPFP). The primary purpose of this program is to attract individuals from a multiplicity of health science disciplines into the field of cancer prevention and control research. The program provides for participation in the DCPC Cancer Control Academic Program (a formal four-month course in cancer prevention and control); 20 months at NCI working directly with individual preceptors on ongoing cancer prevention and control projects; and, one year at a DCPC-approved cancer control program or State Health Department (may be optional). Funding permitting, up to 10 Fellows will be accepted for up to three years of training, beginning August 27, 1989.

APPLICANTS MUST (BY THE DEADLINE):
1. Possess an M.D. or Ph.D. degree from a U.S., territorial, or Canadian medical school OR foreign medical graduates must have current ECFMG/FMGEMS certification and have completed one year residency in a training program approved by the Accreditation Council for Graduate Medical Education - OR - Possess other accredited U.S., territorial, or Canadian doctoral degree (Ph.D., Dr. P.H., D.D.S., etc.) in a discipline related to cancer prevention and control research (biomedical, medical, nutritional, public health or behavioral sciences). Foreign doctoral graduates must provide documented evidence that the foreign education is comparable to doctoral education received in accredited institutions noted above;
2. Possess U.S. citizenship or be a resident alien eligible for citizenship within four years;
3. Complete and return the application packet by the deadline (including arranging for official academic transcripts and four current, original letters of reference to be sent directly by the academic institutions and referees to the CPFP Coordinator).

For questions concerning the program's scientific or administrative aspects, please contact Dr. Peter Greenwald or Mrs. Barbara Redding at (301) 496-8640. Application packets may be obtained by sending a POSTCARD with your name and home address to CPFP Coordinator, NIH/NCI/DCPC/CCAB, EXPS Terrace Level, 9000 Rockville Pike, Bethesda, MD 20892. Please do not send any material until after you have read the instructions in the application packet.

DEADLINE FOR RECEIPT OF APPLICATIONS: JANUARY 11, 1989

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ASSISTANT PROFESSOR

The Dept. of Anatomy, Temple University School of Medicine, has a tenure track position available at the Assistant Professor level with an anticipated starting date of July 1, 1989.

The successful candidate will be expected to establish and support an active research program using modern approaches to study contemporary biological issues, and to participate initially in teaching histology to medical students. Although no specific research experience is required, research strengths in the Department include cell, developmental, reproductive, radiation, bone and neurobiology. Applicants should have a Ph.D or MD degree, teaching experience in the anatomical sciences, post doctoral training, and a continuous record of research accomplishments. Persons interested in applying for the position, should send a detailed curriculum vitae, which includes a statement of research plans and the extent of exposure to Anatomical Sciences, and the names and addresses of three references by December 15, 1988 to Dr. Mark M. Black, Chairperson, Recruitment Committee, Dept. of Anatomy, Temple University School of Medicine, 3400 N. Broad St., Phila., PA 19140.

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